6/1/76

No STOCK

LA-6520-MS

Informal Report

UC-2

Reporting Date: September 1976

Issued: September 1976

Publications of LASL Research

1975

Compiled by

Alison K. Kerr

NOTICE

PORTIONS OF THIS REPORT ARE ILLEGIBLE. It has been reproduced from the best available copy to permit the broadest possible availability.

los alamos
scientific laboratory
of the University of California
LOS ALAMOS, NEW MEXICO 87545

An Affirmative Action/Equal Opportunity Employer

MASTER

UNITED STATES
ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
CONTRACT W-7405-ENG. 36

DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED

Printed in the United States of America. Available from
National Technical Information Service
U.S. Department of Commerce
5285 Port Royal Road
Springfield, VA 22161
Price Printed Copy $10.75 Microfiche $2.25

This report was prepared as an account of work sponsored by the United States Government. Neither the United States nor the United States Energy Research and Development Administration, nor any of their employees, nor any of their contractors, subcontractors, or their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.

CONTENTS

INTRODUCTION iv
PREFACE v
1. AEROSPACE STUDIES 1
2. ANALYTICAL TECHNOLOGY 4
3. ASTROPHYSICS 6
4. ATOMIC AND MOLECULAR PHYSICS,EQUATION OF STATE, OPACITY 9
5. BIOLOGY AND MEDICINE 14
6. CHEMICAL DYNAMICS AND KINETICS 25
7. CHEMISTRY 27
8. CRYOGENICS 29
9. CRYSTALLOGRAPHY 34
10. CTR AND PLASMA PHYSICS 36
11. EARTH SCIENCE AND ENGINEERING 47
12. ENERGY (NONNUCLEAR) 51
13. ENGINEERING AND EQUIPMENT 53
14. EPR, ESR, NMR STUDIES 55
15. EXPLOSIVES AND DETONATIONS 57
16. FISSION PHYSICS 59
17. HEALTH AND SAFETY 61
18. HYDRODYNAMICS AND RADIATION TRANSPORT 66
19. INSTRUMENTS 70
20. LASERS 72
21. MATHEMATICS AND COMPUTERS 83
22. MEDIUM ENERGY PHYSICS 88
23. METALLURGY AND CERAMICS TECHNOLOGY 93
24. NEUTRONICS AND CRITICALITY STUDIES 98
25. NUCLEAR PHYSICS 100
26. NUCLEAR SAFEGUARDS 118
27. PHYSICS 120
28. REACTOR TECHNOLOGY 122
29. SOLID STATE SCIENCE 125
30. MISCELLANEOUS (INCLUDING PROJECT ROVER) 126
AUTHOR INDEX 132
NUMERICAL INDEX 188
PUBLICATION TABULATION 197
WORDS EXCLUDED FROM KWIC INDEX 199
KEYWORD-IN-CONTEXT (KWIC) INDEX 200

NOTICE

This report was prepared as an account of work sponsored by the United States Government. Neither the United States nor the United States Energy Research and Development Administration, nor any of their employees, nor any of their contractors, subcontractors, or their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness or usefulness of any information, apparatus, product or process disclosed, or represents that its use would not infringe privately owned rights.

INTRODUCTION

The Los Alamos Scientific Laboratory (LASL), which is operated for the U.S. Energy Research and Development Administration by the University of California, was founded in 1943 at the site of the Los Alamos Ranch School, a boys' preparatory school in the mountains of Northern New Mexico, as part of the wartime Manhattan Project. It had a single assignment—to create the world's first nuclear fission bombs. Success in that task, one of the greatest scientific and technological achievements of all time, was followed by equal success in developing the first thermonuclear weapons. Since 1952 the Laboratory has diversified its programs, and while still serving as one of the nation's two development centers for nuclear weapons, LASL now devotes about one half of its total effort to unclassified research exploring several peaceful applications of nuclear energy, and other forms of energy. The various LASL weapons and nonweapons programs are supported by extensive fundamental research in physics, mathematics, chemistry, metallurgy, biology, medicine, and other fields.

Major non-weapons research activities at Los Alamos include an Energy Division to look especially into new technology to bring to both old energy activities and new energy sources such as solar and geothermal; the Laboratory's involvement, as one of the major participants, in Project Sherwood, the ERDA's program of research in the control of thermonuclear reactions; an accelerator facility, called LAMPF, for medium-energy nuclear physics research; low-energy and intermediate-energy nuclear physics research using a variety of particle accelerators and neutron sources including underground nuclear explosions; and a program of medical and biological effects of radiation and basic work in molecular and cellular biology. Besides LAMPF, the experimental and test facilities of LASL, many of which are unique, include nuclear reactors, particle accelerators, and a large number of specialized laboratories. Examples are a 25-MeV,3-stage Van de Graaff particle accelerator; a 27-MeV electron accelerator used to produce a very intense, very short burst of x rays for high-speed flash radiography; and a computing center consisting of two CDC 6600/s, four 7600/s, two CYBER-70/s, and the locally designed and built MANIAC II.

LAMPF is a $55-million, 800-MeV,1-mA-beam linear accelerator used to produce beams of protons, mesons, and other nuclear particles with intensities up to 10,000 greater than those available from other machines. Scyllac, an $8.5-million toroidal theta-pinch device 25 meters in circumference, for producing thermonuclear reactions in deuterium plasmas is in operation.

LASL, as of 1975, employed about 5400 people. Scientists and engineers make up about one third of the total staff. The total operating costs—excluding construction—of the laboratory are about $183 million per year. The value of the ERDA-owned buildings and equipment at Los Alamos is about $500 million.

PREFACE

The Libraries' continuing program of locating, recording, and announcing publications of LASL-sponsored research has resulted in the previous publications: "Selected Bibliography of Publications of LASL Research, 1957-1962," (LAMS-2895 and supplement), and "Publications of LASL Research," for each of the years 1963 through 1974, and a five-year compilation covering the years 1967-1971 (LA-5400-MS). The most recent volume is "Publications of LASL Research 1974" (LA-5900-MS). This bibliography lists unclassified 1975 publications of work done at the Los Alamos Scientific Laboratory and those earlier publications that were received too late for inclusion in earlier compilations. Papers published in 1975 are included regardless of when they were actually written. Declassification of previously classified reports is considered to constitute publication. All classified issuances are omitted—even those papers, themselves unclassified, which were published only as part of a classified document. If a paper was published more than once, all places of publication are included.

The bibliography includes Los Alamos Scientific Laboratory reports, papers released as non-Los Alamos reports, journal articles, books, chapters of books, conference papers whether published separately or as part of conference proceedings issued as books or reports, papers published in congressional hearings, theses, and U.S. patents. Publications by LASL authors which are not records of Laboratory-sponsored work are included when the Library becomes aware of them. These publications are indicated by three asterisks following the author's name in place of a group designation.

The arrangement in each bibliographical citation is title first, place(s) of publication indented, then authors, further indented. The *Chemical Abstracts* abbreviation is used for journal citations except for the capitalization. The group designations given after the authors' names indicate the groups with which the authors were associated at the time the papers were written. Group designations have been omitted for early declassified papers. The asterisks at the end of LA-DC and LA-UR entries indicate that the LASL Libraries ordered reprints of the papers. Parenthetical information includes report and reprint numbers, book call numbers, and patent numbers. The parentheses indicate the information by which Los Alamos borrowers may obtain the material from the LASL Libraries.

The entries are arranged in sections by broad subject categories. Within each section they are alphabetical by title. All types of publications are interfiled.

The author and numerical indexes refer to the item numbers, which consist of a number designating the section, followed by a dash and a number for the alphabetic arrangement of the item within the section. An appendix gives a tabulation of the entries by type of publication.

There is a Keyword-in-Context index, plus a list of words not included in that index.

Most of the reports listed in this publication are available for sale from

National Technical Information Service
U.S. Department of Commerce
Springfield, Virginia 22151

or on request by government agencies and their contractors for sale from

Technical Information Center
U.S. Energy Research and Development Administration
P.O. Box 62
Oak Ridge, Tennessee 37830

Reprints of journal articles whose citations are followed by a report number and an asterisk are available as long as the supply lasts from the first author listed. Address requests to him at

Los Alamos Scientific Laboratory
University of California
Post Office Box 1663
Los Alamos, New Mexico 87545

This bibliography has been prepared by the LASL Library Services Group, ISD-4, from the records of the Technical Information Group, ISD-6, from abstracting and indexing journals, and from supplementary library files. Inquiries regarding any of the materials included should be directed to the Serials Unit of the LASL Libraries.

The Libraries gratefully acknowledge the assistance of members of LASL's Computer Science & Services Division and the Administrative Automatic Data Processing Department for assistance with the computerized system for handling publication information.

1. AEROSPACE STUDIES

1-1
COMPARISON OF THE LANGER, ROSEN, NOLAN-POLLAK, AND SANDS CONDENSATION NUCLEUS COUNTERS.
J. APPL. METEOROL., V.14, P.1566-71. 1975.
CADLE, RICHARD D.
LANGER, GERHARD
SEDLACEK, WILLIAM A. (CNC-11)
ET AL

1-2
COMPLETE PLASMA DROPOUTS AT VELA SATELLITES DURING THINNING OF THE PLASMA SHEET.
J. GEOPHYS. RES., V.80, P.4649-59. 1975. (LA-UR-75-1526)*
LUI, ANTHONY T. Y.
HONES, EDWARD W., JR. (P-4)
VENKATESAN, D.
AKASOFU, SYUN I. (P-4)
BAME, SAMUEL J., JR. (P-4)

1-3
DISTRIBUTION OF PLASMA SHEET THINNING AND RECOVERY EVENTS IN THE MAGNETOTAIL SURVEYED BY THE IMP-6 SATELLITE.
ABSTRACT PUBLISHED IN:
EOS, V.56, P.1046. 1975.
LUI, ANTHONY T. Y.
HONES, EDWARD W., JR. (P-4)
BAME, SAMUEL J., JR. (P-4)
AKASOFU, SYUN I. (P-4)
MENG, CHING I.

1-4
ELECTROMAGNETIC CURRENT INSTABILITIES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1380. 1975.
GARY, S. PETER (P-4)
FORSLUND, DAVID W. (T-6)
GERWIN, RICHARD A. (CTR-6)

1-5
ELECTROMAGNETIC ION BEAM INSTABILITIES IN THE SOLAR WIND.
PHYS. REV. LETT., V.35, P.667-70. 1975. (LA-UR-75-869)*
MONTGOMERY, MICHAEL D. (P-4)
GARY, S. PETER (P-4)
FORSLUND, DAVID W. (T-6)
FELDMAN, WILLIAM C. (P-4)

1-6
ELECTRON HEAT FLUX INSTABILITIES IN THE SOLAR WIND.
GEOPHYS. RES. LETT., V.2, P.79-82. 1975. (LA-UR-75-45)*
GARY, S. PETER (P-4)
FELDMAN, WILLIAM C. (P-4)
FORSLUND, DAVID W. (T-6)
MONTGOMERY, MICHAEL D. (P-4)

1-7
ENERGY DENSITY OF THE RELIC RADIATION.
TIC, 1973, 26P. MN (LA-UR-73-1302)
ALSO PUBLISHED IN:
CONFRONTATION OF COSMOLOGICAL THEORIES WITH OBSERVATIONAL DATA, M. S. LONGAIR, ED. P.143-55. IAU, 1974.** (LA-UR-73-1302)*
BLAIR, ALLEN G. (DIR OFF)

1-8
EVIDENCE FOR LOCAL ION HEATING IN SOLAR WIND HIGH SPEED STREAMS.
GEOPHYS. RES. LETT., V.2, P.373-5. 1975. (LA-UR-75-1133)*
BAME, SAMUEL J., JR. (P-4)
ASBRIDGE, JOHN R. (P-4)
FELDMAN, WILLIAM C. (P-4)
GARY, S. PETER (P-4)
MONTGOMERY, MICHAEL D. (P-4)

1-9
EVIDENCE FOR THE REGULATION OF SOLAR WIND HEAT FLUX AT 1 AU.
ABSTRACT PUBLISHED IN:
EOS, V.56, P.1057. 1975.
FELDMAN, WILLIAM C. (P-4)
ASBRIDGE, JOHN R. (P-4)
BAME, SAMUEL J., JR. (P-4)
MONTGOMERY, MICHAEL D. (P-4)
GARY, S. PETER (P-4)
FAIRFIELD, DONALD H.

1-10
FAST SOLAR ELECTRONS, INTERPLANETARY PLASMA AND KM WAVE TYPE III RADIO BURSTS OBSERVED FROM THE IMP-6 SPACECRAFT.
SOLAR PHYS., V.44, P.485-501. 1975.
ALVAREZ, HECTOR
LIN, R. P.
BAME, SAMUEL J., JR. (P-4)

1-11
GRADIENTS OF SOLAR PROTONS IN THE HIGH LATITUDE MAGNETOTAIL AND THE CONVECTION ELECTRIC FIELD.
ABSTRACT PUBLISHED IN:
EOS, V.55, P.1168, 1974.
PALMER, IAN D.
HIGBIE, PAUL R. (P-4)
HONES, EDWARD W., JR. (P-4)

1-12
HEAT FLUX INSTABILITIES IN THE SOLAR WIND.
J. GEOPHYS. RES., V.80, P.4197-203, 1975. (LA-UR-75-390)*
GARY, S. PETER (P-4)
FELDMAN, WILLIAM C. (P-4)
FORSLUND, DAVID W. (T-6)
MONTGOMERY, MICHAEL D. (P-4)

1-13
HEAVY METHANES AS ATMOSPHERIC TRACERS.
LASL, 1975. 4P. (LA-5936-MS)
COWAN, GEORGE A. (CNC-DO)
OTT, DONALD G. (H-11)
TURKEVICH, ANTHONY L.
MACHTA, LESTER
FERBER, GILBERT J.
DALY, NORMAN R.

1-14
IMP-6 AND -8 SPACECRAFT POTENTIAL IN THE MAGNETOTAIL.
ABSTRACT PUBLISHED IN:
EOS, V.56, P.906, 1975.
VASYLIUNAS, VYTENIS M. (P-4)
HONES, EDWARD W., JR. (P-4)
BAME, SAMUEL J., JR. (P-4)
ASBRIDGE, JOHN R. (P-4)

1-15
INVESTIGATION OF SUBSTORM RELATED PLASMA SHEET THINNING WITH IMP-8.
ABSTRACT PUBLISHED IN:
EOS, V.56, P.1046, 1975.
STILES, GARDINER S. (P-4)
HONES, EDWARD W., JR. (P-4)
BAME, SAMUEL J., JR. (P-4)
ASBRIDGE, JOHN R. (P-4)

1-16
L = 6.6 OOSIK BARIUM PLASMA INJECTION EXPERIMENT AND MAGNETIC STORM OF MARCH 7, 1972.
J. GEOPHYS. RES., V.80, P.951-67, 1975. (LA-UR-74-692)*
WESCOTT, EUGENE M.
NIELSEN, HANS C. S.
DAVIS, T. NEIL
MURCRAY, WALLACE B.
PEEK, H. MILTON (J-10)
BOTTOMS, PAUL J. (J-10)

1-17
L = 6.7 QUIET TIME BARIUM SHAPED CHARGE INJECTION EXPERIMENT CHACHALACA.
J. GEOPHYS. RES., V.80, P.2738-44, 1975. (LA-UR-74-1665)*
PEEK, H. MILTON (J-10)
BOTTOMS, PAUL J. (J-10)
WESCOTT, EUGENE M.
RIEGER, E. R.
NIELSEN, HANS C. S.
DAVIS, T. NEIL

1-18
MEASURED ELECTRIC FIELD IN THE MAGNETOTAIL.
ABSTRACT PUBLISHED IN:
EOS, V.56, P.622, 1975.
HIGBIE, PAUL R. (P-4)
HONES, EDWARD W., JR. (P-4)

1-19
PARTICLES AND FIELDS IN THE NEIGHBORHOOD OF A MAGNETIC NEUTRAL LINE.
ABSTRACT PUBLISHED IN:
EOS, V.56, P.1050, 1975.
HONES, EDWARD W., JR. (P-4)
BAME, SAMUEL J., JR. (P-4)
FAIRFIELD, DONALD H.
MENG, CHING I.

1-20
PROLONGED EARTHWARD FLOW OF MAGNETOTAIL PLASMA ASSOCIATED WITH STEADY SOUTHWARD IMF.
ABSTRACT PUBLISHED IN:
EOS, V.56, P.909, 1975.
HONES, EDWARD W., JR. (P-4)
BAME, SAMUEL J., JR. (P-4)
ASBRIDGE, JOHN R. (P-4)

1-21
PROTON TEMPERATURE ANISOTROPY INSTABILITIES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1380, 1975.
LEMONS, DON S. (P-4)
GARY, S. PETER (P-4)
MONTGOMERY, MICHAEL D. (P-4)
FELDMAN, WILLIAM C. (P-4)
FORSLUND, DAVID W. (T-6)

1-22
RECENT OBSERVATIONS RELATING TO THE DYNAMICS AND ORIGIN OF THE MAGNETOTAIL PLASMA SHEET.
TIC, 1975. 28P. MN (LA-UR-75-791)
ALSO PUBLISHED IN:
PHYSICS OF THE HOT PLASMA IN THE MAGNETOSPHERE. 1975. 30TH NOBEL SYMPOSIUM, KIRUNA, SWEDEN. PROC., P.137-58, PLENUM, 1975. (523:P578H) (LA-UR-75-791)*
HONES, EDWARD W., JR. (P-4)

1-23
RESPONSE OF THE PLASMA SHEET AT APPROXIMATELY 18 EARTH RADII TO SUDDEN SOUTHWARD TURNINGS OF THE INTERPLANETARY MAGNETIC FIELD.
J. GEOPHYS. RES., V.80, P.929-35, 1975. (LA-UR-74-795)*
LUI, ANTHONY T. Y.
HONES, EDWARD W., JR. (P-4)
VENKATESAN, D.
AKASOFU, SYUN I. (P-4)
BAME, SAMUEL J., JR. (P-4)

1-24
SOLAR WIND ELECTRONS.
J. GEOPHYS. RES., V.80, P.4181-96, 1975. (LA-UR-75-198)*
FELDMAN, WILLIAM C. (P-4)
ASBRIDGE, JOHN R. (P-4)
BAME, SAMUEL J., JR. (P-4)
MONTGOMERY, MICHAEL D. (P-4)
GARY, S. PETER (P-4)

1-25
SOLAR WIND HEAVY ION ABUNDANCES.
SOLAR PHYS., V.43, P.463-73, 1975. (LA-UR-75-546)*
BAME, SAMUEL J., JR. (P-4)
ASBRIDGE, JOHN R. (P-4)
FELDMAN, WILLIAM C. (P-4)
MONTGOMERY, MICHAEL D. (P-4)
KEARNEY, PHILIP D.

1-26
SOLAR WIND STREAM EVOLUTION AT LARGE HELIOCENTRIC DISTANCES: EXPERIMENTAL DEMONSTRATION AND THE TEST OF A MODEL.
ABSTRACT PUBLISHED IN:
EOS, V.56, P.1055, 1975.
GOSLING, JOHN T. (P-4)
BAME, SAMUEL J., JR. (P-4)
HUNDHAUSEN, ARTHUR J.

1-27
SOME EVALUATIONS OF MAGNETOSPHERIC ELECTRIC FIELDS AND THEIR EFFECTS.
ABSTRACT PUBLISHED IN:
EOS, V.56, P.620-1, 1975.
HONES, EDWARD W., JR. (P-4)

1-28
STANDING WAVES AT LOW MACH NUMBER LAMINAR BOW SHOCKS.
J. GEOPHYS. RES., V.80, P.515-22, 1975.
ABSTRACT PUBLISHED IN:
EOS, V.55, P.389, 1974.
FAIRFIELD, DONALD H.
FELDMAN, WILLIAM C. (P-4)

1-29
STRATOSPHERIC HALOGEN MEASUREMENTS.
GEOPHYS. RES. LETT., V.2, P.439-41, 1975.
LAZRUS, ALLAN L.
GANDRUD, B.
WOODARD, R.
SEDLACEK, WILLIAM A. (CNC-11)

1-30
TWO BARIUM PLASMA INJECTIONS INTO THE NORTHERN MAGNETOSPHERIC CLEFT.
GEOPHYS. RES. LETT., V.2, P.285-8, 1975. (LA-UR-75-457)*
JEFFRIES, ROBERT A. (J-10)
ROACH, WILLIAM H. (J-10)
HONES, EDWARD W., JR. (P-4)
WESCOTT, EUGENE M.
NIELSEN, HANS C. S.
DAVIS, T. NEIL
WINNINGHAM, J. DAVID

1-31
USE OF TWO ANGLE ELASTIC AND RAMAN SCATTERING TO OBTAIN MOLECULAR DENSITY AND AEROSOL SCATTERING PROFILES.
OPT. QUANTUM ELECTRON., V.7, P.215-20, 1975. (LA-UR-74-1651)*
SCHUSTER, BURTON G. (H-5)

1-32
VLF RADIO PHENOMENA FOLLOWING A BARIUM SHAPED CHARGE RELEASE AT L APPROXIMATELY EQUALS 6.5.
ABSTRACT PUBLISHED IN:
EOS, V.56, P.910, 1975.
EVERHARD-BAKKER, A. E.
RYCROFT, M. J.
HEARD, N.
SMITH, A. J.
BOTTOMS, PAUL J. (J-10)
PONGRATZ, MORRIS B. (J-10)

2. ANALYTICAL TECHNOLOGY

2-1
ALLCAL: AN INTERACTIVE BASIC PROGRAM FOR SPECTROCHEMICAL CALCULATIONS.
LASL, 1975. 18P. (LA-6010)
APEL, CHARLES T. (CMB-1)

2-2
ANALYTICAL METHODS FOR LITHIUM HYDRIDE.
LASL, 1952. DECLASSIFIED 1971. 13P.
(LAMS-1547)
CHALLENGER, GEORGE E.
ET AL

2-3
AXIAL DISTRIBUTIONS OF NIOBIUM -95 AND ZIRCONIUM -95 ISOTOPES IN IRRADIATED URANIUM DIOXIDE - PLUTONIUM DIOXIDE FUEL PINS.
J. INORG. NUCL. CHEM., V.37, P.1337-40. 1975. (LA-UR-74-1240)*
PHILLIPS, JOHN R. (CMB-1)
NETUSCHIL, JENNIE R. (CMB-1)
QUINTANA, JOHNNY N. (CMB-1)
WATERBURY, GLENN R. (CMB-1)

2-4
CHEMICAL ANALYSIS OF NUCLEAR FUELS FOR MAJOR CONSTITUENTS.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.170, PAPER NO.ANAL-44. 1975.
SWANSON, GERALD C. (CMB-1)
WATERBURY, GLENN R. (CMB-1)
JACKSON, DARRYL D. (CMB-1)

2-5
CHIT: A COST ACCOUNTING PROGRAM FOR POSTIRRADIATION EXAMINATIONS OF FAST BREEDER REACTOR MATERIALS.
LASL, 1975. 28P. (LA-6114)
PHILLIPS, JOHN R. (CMB-1)
DOWLER, KEITH E. (CMB-14)

2-6
COPPER MINING AND MILL ANALYSES BY GAMMA RAYS FROM CAPTURE OF CALIFORNIUM -252 NEUTRONS.
ANAL. CHIM. ACTA, V.79, P.149-59. 1975.
DUFFEY, DICK
BALAGNA, JOHN P., JR. (***)
WIGGINS, P. F.
ELKADY, A. A.

2-7
COPRECIPITATION OF URANIUM AND PLUTONIUM OXALATES USING SODIUM FORMALDEHYDE SULFOXYLATE REDUCTION AND DIETHYL OXALATE HYDROLYSIS PRECIPITATION.
LASL, 1975. 2P. (LA-5876-MS)
MARSH, SINCLAIR F. (CMB-1)
ORTIZ, M. ROMAYNE (CMB-1)
REIN, JAMES E. (CMB-1)

2-8
DETERMINATION OF COMBINED SULFUR IN NUCLEAR REACTOR FUEL MATERIALS.
LASL, 1975. 6P. (LA-5884)
THORN, LORRAINE E. (CMB-1)
BRYAN, ROBERT G. (CMB-1)
WATERBURY, GLENN R. (CMB-1)

2-9
DETERMINATION OF OXYGEN -17 AND OXYGEN -18 ISOTOPIC ABUNDANCES IN PLUTONIUM -238 MATERIALS BY GAMMA RAY SPECTROMETRY.
ANAL. CHIM. ACTA, V.77, P.97-106. 1975. (LA-UR-74-1423)*
BUBERNAK, JOSEPH (CMB-1)
MATLACK, GEORGE M. (CMB-1)

2-10
DETERMINATION OF OXYGEN IN PLUTONIUM BY THE CAPILLARY TRAP METHOD.
LASL, 1953. DECLASSIFIED 1974. 35P.
(LA-1350)
SMILEY, WILLIAM G.

2-11
DETERMINATION OF ZIRCONIUM IN PLUTONIUM - ZIRCONIUM ALLOYS.
LASL, 1952. DECLASSIFIED 1971. 23P.
(LA-1463)
BERGSTRESSER, KARL S.

2-12
DIFFUSION ANALYSES FOR SYSTEMS OF SPHERICAL PARTICLES.
NUCL. TECHNOL., V.26, P.35-45. 1975.
(LA-UR-74-963)*
STARK, WALTER A., JR. (CMB-3)

2-13
DRIFT COMPENSATING INTEGRATOR FOR MEASUREMENT OF TRANSIENT ATOMIC ABSORPTION SIGNALS.
ANAL. CHEM., V.47, P.1493-4. 1975.
(LA-UR-74-1950)*
COX, LAWRENCE E. (CMB-1)

2-14
FAST REACTOR FISSION YIELDS FOR URANIUM -233, URANIUM -235, URANIUM -238, AND PLUTONIUM -239 AND DETERMINATION OF BURNUP IN FAST BREEDER REACTOR MIXED OXIDE FUELS.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.170, PAPER NO.ANAL-47, 1975.
MAECK, WILLIAM J.
MARSH, SINCLAIR F. (CMB-1)
ABERNATHEY, ROBERT M. (CMB-1)
REIN, JAMES E. (CMB-1)

2-15
INSTANT SPECTROSCOPY IN THE VISIBLE, ULTRAVIOLET, AND VACUUM ULTRAVIOLET WITH POLAROID FILM.
APPL. OPT., V.14, P.2821-2, 1975
(LA-UR-75-1493)*
ENGLEMAN, ROLF, JR. (CMB-1)
RADZIEMSKI, LEON J., JR. (CMB-1)

2-16
LOSS OF OSMIUM DURING FUSION OF GEOLOGICAL MATERIALS.
ANAL. CHEM., V.47, P.1484, 1975.
(LA-UR-74-1890)*
APT, KENNETH E. (H-8)
GLADNEY, ERNEST S. (H-8)

2-17
MICRO-COMBUSTION METHOD FOR THE DETERMINATION OF CARBON.
LASL, 1945, DECLASSIFIED 1971, 18P.
(LA-429)
CADY, WILLIAM E.
RICE, CHARLES N.

2-18
MOLECULAR ACTIVATION ANALYSIS.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.167, PAPER NO.NUCL-51, 1974.
GRANT, PATRICK M. (CNC-11)
ROWLAND, F. S.

2-19
OXYGEN POTENTIAL OF URANIUM - PLUTONIUM OXIDE AS DETERMINED BY CONTROLLED ATMOSPHERE THERMOGRAVIMETRY.
THESIS, UNIV. OF NEW MEXICO, 1975.
LASL, 1975, 130P. (LA-6083-T)
SWANSON, GERALD C. (CMB-1)

2-20
PORTABLE FLASH X RAY SYSTEMS APPLICATIONS AND TECHNIQUES.
MATER. EVAL., V.33, P.273-8, 1975.
BRYANT, LAWRENCE E., JR. (M-1)

2-21
QUANTITATIVE DETERMINATION OF FISSION PRODUCTS IN IRRADIATED FUEL PINS USING NONDESTRUCTIVE GAMMA SCANNING.
ANAL. CHEM., V.47, P.71-5, 1975.
(LA-UR-74-1000)*
PHILLIPS, JOHN R. (CMB-1)
WATERBURY, GLENN R. (CMB-1)
VANDERBORGH, NICHOLAS E.
MARSHALL, THOMAS K. (CMB-1)

2-22
QUANTITATIVE DETERMINATION OF FISSION PRODUCTS IN IRRADIATED FUEL PINS USING NONDESTRUCTIVE GAMMA SCANNING.
TIC, 1975, 21P. MN (LA-UR-74-1796)
PHILLIPS, JOHN R. (CMB-1)
WATERBURY, GLENN R. (CMB-1)
VANDERBORGH, NICHOLAS E.
MARSHALL, THOMAS K. (CMB-1)

2-23
QUANTITATIVE PULSED EDDY CURRENT ANALYSIS.
TIC, 1975, 20P. MN (LA-UR-75-595)
MORRIS, ROGER A. (M-1)

2-24
SAMPLING MIXTURES OF SOIL AND CARBON -14 LABELED PLANT MATERIALS.
SOIL SCI. SOC. AM. PROC., V.39, P.386-2, 1975.
NYHAN, JOHN W. (***)

2-25
SEALED REFLUX DISSOLUTION SYSTEM.
LASL, 1975, 8P. (LA-5776)
DAHLBY, JOEL W. (CMB-1)
GEOFFRION, R. RONALD (CMB-QA)
WATERBURY, GLENN R. (CMB-1)

2-26
SILICA IN WATER IN RELATION TO COOLING TOWER OPERATION.
TIC, 1975, 55P. MN (LA-UR-74-1895)
WOHLBERG, CORNEL (H-7)
BUCHHOLZ, JERRY R. (H-7)

2-27
SPECTROPHOTOMETRIC DETERMINATION OF PLUTONIUM IN SOLUTIONS CONTAINING LARGE AMOUNTS OF ALUMINUM, CALCIUM, AND MAGNESIUM.
LASL, 1951, DECLASSIFIED 1971, 18P.
(LA-1196)
KING, GLENDALL L.

2-28
URANIUM TRANSITIONS AND ENERGY LEVELS WHICH MAY BE USEFUL IN ATOMIC PHOTOIONIZATION SCHEMES FOR SEPARATING URANIUM -238 AND URANIUM -235.
OPT. COMMUN., V.15, P.273-6, 1975.
(LA-UR-75-955)*
RADZIEMSKI, LEON J., JR. (CMB-1)
GERSTENKORN, S.
LUC, P.

3. ASTROPHYSICS

3-1
ABSOLUTE INTENSITIES OF THE OUTER CORONA FROM THE JUNE 30, 1973 TOTAL SOLAR ECLIPSE.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.7, P.234. 1975.
KELLER, CHARLES F. (J-15)
TABOR, JAMES E. (J-15)
MATUSKA, WALTER (J-15)

3-2
AGE OF HB21 AND PSR2021+51.
ASTRON. ASTROPHYS., V.42, P.147-50. 1975. (LA-UR-74-1659)*
JONES, ERIC M. (J-10)

3-3
ANALYSIS OF A SCORPIUS X-1 X RAY SPECTRUM OBTAINED WITH COOLED SILICON (LI) DETECTORS.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.7, P.460. 1975.
LAROS, JOHN G. (P-4)
SINGER, SIDNEY (L-1)

3-4
APPLICATIONS OF LINEAR PULSATION THEORY TO THE CEPHEID MASS PROBLEM AND THE DOUBLE MODE CEPHEIDS.
ASTROPHYS. J., V.195, P.467-74. 1975.
KING, DAVID S. (J-15)
HANSEN, CARL J.
ROSS, RANDY R.
COX, JOHN P. (J-15)

3-5
ARE QUASARS LOCAL?
TIC, 1975. 21P. MN (LA-UR-75-258)
ALSO PUBLISHED IN:
THEORIES AND EXPERIMENTS IN HIGH-ENERGY PHYSICS. 1975. ORBIS SCIENTIAE, 2ND. CORAL GABLES, FL. PROC., PART 1, P.457-73. PLENUM, 1975. (530:T396E) (LA-UR-75-258)*
TERRELL, JAMES (L-2)

3-6
CALCULATION OF SNR (SUPERNOVA REMNANT) INTERACTION.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.7, P.247. 1975.
JONES, ERIC M. (J-10)

3-7
CASE OF THE BAFFLING BURSTS.
SCIENCE YEAR; THE WORLD BOOK SCIENCE ANNUAL, 1976. P.196-209. FIELD ENTERPRISES EDUCATIONAL CORPORATION, 1975.**
STRONG, IAN B. (P-4)

3-8
CEPHEID PULSATION THEORY AND MULTIPERIODIC CEPHEID VARIABLES.
TIC, 1975. 21P. MN (LA-UR-75-1625)
COX, ARTHUR N. (T-DOT)
COX, JOHN P. (J-DO)

3-9
CONVECTION IN RR LYRAE STARS.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.7, P.526-7. 1975.
DEUPREE, ROBERT G. (T-DOT)

3-10
CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES. 1. AIRBORNE INSTRUMENTATION AND RESULTS.
SOLAR PHYS., V.44, P.331-44. 1975. (LA-UR-75-1192)*
LIEBENBERG, DONALD H. (L-DOT)

3-11
CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES. 2. 30 MAY 1965 RESULTS, DECONVOLUTION AND INTERPRETATION.
SOLAR PHYS., V.44, P.345-59. 1975. (LA-UR-75-1096)*
LIEBENBERG, DONALD H. (L-DOT)
BESSEY, ROBERT
WATSON, BOBBY

3-12
COSMIC GAMMA RAY BURSTS.
NEUTRON STARS, BLACK HOLES AND BINARY X-RAY SOURCES, H. GURSKY AND R. RUFFINI, EDS. P.47-58. REIDEL, 1975. (523:N497S) (LA-UR-75-1337)*
STRONG, IAN B. (P-4)

3-13
DISTRIBUTION OF SUPERNOVA REMNANTS IN THE GALAXY: EVIDENCE FOR A TUNNEL SYSTEM.
ASTROPHYS. J., V.201, P.377-80. 1975. (LA-UR-75-336)*
JONES, ERIC M. (J-10)

3-14
DOUBLE MODE CEPHEIDS AND U TRA.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.7, P.251.
1975.
KING, DAVID S. (J-15)
COX, ARTHUR N. (J-DOT)
EILERS, DONALD D. (J-15)
COX, JOHN P. (J-15)

3-15
EXTENSIVE SPATIAL DISTRIBUTION OF 569.4 NM CALCIUM XV EMISSION IN THE SOLAR CORONA DURING THE ECLIPSE OF 1973.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.7, P.474.
1975.
HOFFMAN, MARVIN M. (J-DOT)
SANDERS, WILLIAM MORT (J-12)
LIEBENBERG, DONALD H. (L-DO)

3-16
GAMMA RAY BURSTS FROM BLACK HOLE ACCRETION DISKS.
TIC, 1975. 7P. MN (LA-UR-75-1123)
STRONG, IAN B. (P-4)

3-17
GENERAL NUMERICAL FLUID DYNAMICS ALGORITHM FOR ASTROPHYSICAL APPLICATIONS.
LASL, 1975. 15P. (LA-6149-MS)
RUPPEL, HANS M. (T-3)
CLOUTMAN, LAWRENCE D. (T-3)

3-18
GEOCHEMICAL MAPPING OF THE MOON BY ORBITAL GAMMA RAY SPECTROSCOPY.
TIC, 1975. 7P. MN (LA-UR-75-358)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.157-8. 1975.
REEDY, ROBERT C. (CNC-11)

3-19
GLORY.
SCI. AM., V.231, NO.7, P.60-71. 1974.
JARMIE, NELSON (P-9)
BRYANT, HOWARD C.

3-20
HYDRODYNAMIC EFFECTS IN THE ATMOSPHERES OF VARIABLE STARS.
MEM. SOC. R. SCI. LIEGE. V.8, P.197-207. 1975. (LA-UR-74-1292)*
DAVIS, CECIL G. (J-15)

3-21
IDENTIFICATION OF SOLAR FLARE IRON(XVIII) TO IRON(XXIII) EMISSION LINES FROM 2S(N)2P(K)-2S(N-1)2P(K+1) TRANSITIONS.
MON. NOT. R. ASTRON. SOC., V.171, P.1-7. 1975.
FAWCETT, BRIAN C.
COWAN, ROBERT D. (T-4)

3-22
IMAGE INTENSIFICATION AND VIDEO RECORDING SYSTEM FOR ASTRONOMICAL OBSERVATIONS.
OPT. ENG., V.14, P.76-80. 1975.
(LA-UR-74-1739)*
HOFFMAN, MARVIN M. (J-12)
SANDERS, WILLIAM MORT (J-12)
LIEBENBERG, DONALD H. (L-DO)

3-23
IMPROVED OPACITY CALCULATIONS.
ASTROPHYS. J., V.196, P.617-20. 1975.
(LA-UR-74-1318)*
MAGEE, NORMAN H. (T-4)
MERTS, ATHEL L. (T-4)
HUEBNER, WALTER F. (T-4)

3-24
LIMIT ON THE PHOTON MASS DEDUCED FROM PIONEER 10 OBSERVATIONS OF JUPITER'S MAGNETIC FIELD.
PHYS. REV. LETT., V.35, P.1402-5.
1975. (LA-UR-75-1214)*
DAVIS, LEVERETT, JR.
GOLDHABER, ALFRED S.
NIETO, MICHAEL MARTIN (T-8)

3-25
LOCAL QUASARS AND RADIO GALAXIES.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.7, P.454.
1975.
TERRELL, JAMES (L-2)

3-26
MODEL COSMIC GAMMA RAY BURST.
TIC, 1975. 4P. MN (LA-UR-75-1122)
STRONG, IAN B. (P-4)
KLEBESADEL, RAY W. (P-4)
EVANS, W. DOYLE (P-4)

3-27
MOLECULAR EQUATIONS OF STATE FOR DENSE DUST CLOUDS.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.7, P.547.
1975
AMES, SUSAN (T-4)

3-28
NEUTRON STAR MODELS WITH REALISTIC HIGH DENSITY EQUATIONS OF STATE.
ASTROPHYS. J., V.199, P.741-8. 1975.
(LA-UR-74-1924)*
MALONE, ROBERT C. (T-6)
JOHNSON, MIKKEL (MP-DO)
BETHE, HANS A.

3-29
NON-LINEAR RADIATIVE TRANSFER MODEL OF SW ANDROMADAE.
TIC, 1976. 12P. MN (LA-UR-75-1769)
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.7, P.471.
1975.
DAVIS, CECIL G. (J-15)
BUNKER, SUSAN S. (J-15)

3-30
OBSERVATIONS OF COSMIC GAMMA RAY BURSTS.
TIC, 1975. 20P. MN (LA-UR-75-985)
KLEBESADEL, RAY W. (P-4)
STRONG, IAN B. (P-4)

3-31
OBSERVATIONS OF GAMMA RAY BURSTS.
ANN. N. Y. ACAD. SCI., V.262, P.145-58. 1975. (LA-UR-75-735)*
ALSO PUBLISHED AS:
TIC, 1976. 24P. MN (LA-UR-75-735)
STRONG, IAN B. (P-4)
KLEBESADEL, RAY W. (P-4)
EVANS, W. DOYLE (P-4)

3-32
OBSERVED CORONAL TEMPERATURES AT 1.37 SOLAR RADII IN THE REGION OF A HELMET STRUCTURE.
SOLAR PHYS., V.40, P.387-96. 1975.
(LA-UR-74-813)*
LIEBENBERG, DONALD H. (L-DOT)
BESSEY, ROBERT
WATSON, BOBBY

3-33
PARTICLE ACCELERATION NEAR AN ACCRETING BLACK HOLE.
TIC, 1975. 5P. MN (LA-UR-75-1038)
AMES, SUSAN (T-4)

3-34
POROSITY OF THE INTERSTELLAR MEDIUM.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.7, P.428.
1975.
JONES, ERIC M. (J-10)

3-35
PRELIMINARY DESIGN AND PERFORMANCE OF AN ADVANCED GAMMA RAY SPECTROMETER FOR FUTURE ORBITER MISSIONS.
TIC, 1975. 29P. MN (LA-UR-75-880)
METZGER, ALBERT E.
PARKER, R. H.
ARNOLD, JAMES R.
REEDY, ROBERT C. (CNC-11)
TROMBKA, JACOB I.

3-36
RADIAL STELLAR STABILITY AND PULSATION.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.7, P.503.
1975.
COX, ARTHUR N. (T-DOT)

3-37
RADIO GALAXIES AND LOCAL QUASARS.
NATURE, V.258, P.132-3. 1975.
(LA-UR-75-1389)*
TERRELL, JAMES (L-2)

3-38
REPLY TO NOTE BY A. FABIAN.
NATURE, V.256, P.347-8. 1975.
(LA-UR-75-541)*
STRONG, IAN B. (P-4)
KLEBESADEL, RAY W. (P-4)

3-39
RESULTS OF X RAY AND OPTICAL MONITORING OF SCORPIUS X-1 IN 1970.
ASTROPHYS. J., V.197, P.425-41. 1975.
MOOK, DELO E.
MESSINA, R. J.
HILTNER, W. A.
BELIAN, RICHARD D. (P-4)
ET AL

3-40
SOLAR WIND DEVELOPMENT IN THE MIDDLE CORONA.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.7, P.358.
1975.
LIEBENBERG, DONALD H. (L-DOT)
BESSEY, ROBERT
WATSON, BOBBY

3-41
SPECTROPHOTOMETRY OF COOL CARBON STARS.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.7, P.519.
1975.
GOW, CHARLES E. (J-10)

3-42
STUDY OF FAST TIME STRUCTURE WITHIN COSMIC GAMMA RAY BURSTS.
ASTROPHYS. J., V.198, P.717-25. 1975.
IMHOF, W. L.
NAKANO, G. H.
JOHNSON, R. G.
KILNER, J. R.
REAGAN, J. B.
KLEBESADEL, RAY W. (P-4)
STRONG, IAN B. (P-4)

3-43
SUGGESTED OBSERVATIONS OF SUPERNOVA REMNANTS IN THE LARGE MAGELLANIC CLOUD.
ASTRON. ASTROPHYS., V.42, P.159-60.
1975.
JONES, ERIC M. (J-10)

3-44
SUPERNOVA REMNANT W44: A GALACTIC GRAVIMETER.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.6, P.438.
1974.
JONES, ERIC M. (J-10)

3-45
THEORETICAL COLORS FOR CEPHEIDS WITH TRANSFER EFFECTS NOW EVIDENT IN THEIR LIGHT CURVES.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.7, P.511.
1975.
DAVIS, CECIL G. (J-15)
COX, ARTHUR N. (T-DOT)
BUNKER, SUSAN S. (J-15)

3-46
W44: A BUOYANT SUPERNOVA REMNANT.
ASTRON. ASTROPHYS., V.39, P.143-6.
1975. (LA-UR-74-1422)*
JONES, ERIC M. (J-10)

3-47
X RAY STAR.
MC GRAW-HILL YEARBOOK OF SCIENCE AND TECHNOLOGY, 1974 REVIEW/1975 PREVIEW, P.419-21. MC GRAW-HILL, 1975.
STRONG, IAN B. (P-4)

4. ATOMIC AND MOLECULAR PHYSICS, EQUATION OF STATE, OPACITY

4-1
ANALYSIS OF VUV EMISSION IN A THETA PINCH SEEDED WITH NEON AND IRON.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1465. 1975.
KALLNE, ELISABETH (P-3)
ENGLEMAN, ROLF, JR. (CMB-1)
THOMSON, DAVID B. (P-3)
JONES, LARRY A. (P-3)

4-2
ASSOCIATIVE IONIZATION AND EXCITATION TRANSFER IN HELIUM.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.252-3. 1975.
COHEN, JAMES S. (T-6)

4-3
ASYMPTOTIC FORM OF PARTITION FUNCTIONS OF LINEAR CHAIN MOLECULES: AN APPLICATION OF RENEWAL THEORY.
ABSTRACT PUBLISHED IN:
MATHEMATICIANS. 1974. INTERNATIONAL CONGRESS, VANCOUVER. ABSTRACTS OF COMMUNICATIONS, P.146. ICM, 1974. (510:I61M 1974A)
BEYER, WILLIAM A. (T-7)
DE LISI, CHARLES P. (T-DOT)

4-4
ATMOSPHERIC IONIZATION PRODUCED BY SPRINT BURSTS.
ABSTRACT PUBLISHED IN:
ATMOSPHERIC EFFECTS. 1973. SYMPOSIUM, SAN DIEGO, CA, ABSTRACTS OF PAPERS, P.28. DNA, 1973. (DNA-LA-10)
MAIER, WILLIAM B., II (J-10)
SUTHERLAND, C. DEXTER (J-10)

4-5
ATOMIC CAPTURE OF NEGATIVE MESONS: THE FUZZY FERMI-TELLER MODEL.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.125. LASL, 1975. (LA-6030-C)
LEON, MELVIN (MP-3)
MILLER, JOHN H. (MP-3)

4-6
BACKWARD POTENTIAL SCATTERINGS AT HIGH ENERGY.
PHYS. REV., V.D12, P.1765-71. 1975. (LA-UR-75-39)*
CHEN, TUAN W. (T-5)
HOOCK, D. W.

4-7
CALCULATED AND EXPERIMENTAL ELECTRONIC STRUCTURE OF GASEOUS MANGANESE OXYFLUORIDE AND MANGANESE OXYCHLORIDE.
J. CHEM. PHYS., V.63, P.1429-44. 1975. (LA-UR-74-1207)*
JASINSKI, JERRY P. (CNC-4)
HOLT, SMITH L.
WOOD, JOHN H. (CMB-5)
MOSKOWITZ, J. W. (CMB-5)

4-8
CALCULATIONS ON THE EXCITED STATES OF SMALL MOLECULES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.307. 1975.
DUNNING, THOMAS H., JR. (T-6)

4-9
COLLISIONS OF NEON*(3S) AND NEON(+) WITH NEON. EXCITATION AND CHARGE TRANSFER, ELASTIC SCATTERING, AND DIFFUSION.
PHYS. REV., V.A11, P.884-92. 1975. (LA-UR-74-1465)*
COHEN, JAMES S. (T-6)
SCHNEIDER, BARRY (T-6)

4-10
COMPARISON OF LOCKHEED AND AFWL BASED ABSORPTION COEFFICIENTS FOR AIR.
ABSTRACT PUBLISHED IN:
ATMOSPHERIC EFFECTS. 1973. SYMPOSIUM, SAN DIEGO, CA, ABSTRACTS OF PAPERS, P.163. DNA, 1973. (DNA-LA-10)
COX, ARTHUR N. (J-15)
TABOR, JAMES E. (J-15)

4-11
COMPRESSION AND BONDING OF ICE VII AND AN EMPIRICAL LINEAR EXPRESSION FOR THE ISOTHERMAL COMPRESSION OF SOLIDS.
J. CHEM. PHYS., V.62, P.94-9. 1975. (LA-UR-74-905)*
OLINGER, BARTON W. (M-6)
HALLECK, PHILLIP M. (WX-7)

4-12
CONFIGURATION INTERACTION STUDIES OF OZONE AND OZONE POSITIVE ION. GROUND AND EXCITED STATES.
J. CHEM. PHYS., V.62, P.3912-24. 1975. (LA-UR-75-6)*
DUNNING, THOMAS H., JR. (T-6)
HAY, P. JEFFREY (T-6)
GODDARD, WILLIAM A., III

4-13
DENSITY SENSITIVE LINES OF HIGHLY IONIZED IRON.
PHYS. REV., V.A12, P.980-6. 1975.
DOSCHEK, G. A.
FELDMAN, U.
DAVIS, J.
COWAN, ROBERT D. (T-4)

4-14
ELECTRON BINDING EFFECTS ON SCATTERING CONTRIBUTION TO MONOCHROMATIC AND MEAN OPACITIES.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.7, P.445. 1975.
BROWN, ROBERT T. (J-15)

4-15
ELECTRON CONFIGURATIONS AND BONDING IN THE EARLY ACTINIDE METALS.
TIC, 1975. 12P. MN (LA-UR-75-1818)
HILL, H. HUNTER (CMB-5)
KMETKO, EDWARD A. (T-4)

4-16
ELECTRON SCATTERING FROM ATOMS, NUCLEI AND NUCLEONS.
PHYS. REP., V.18, P.263-323. 1975.
(LA-UR-74-1784)*
WEST, GEOFFREY B. (T-5)

4-17
ELECTRON TRANSFER IN COLLISIONS BETWEEN ATOMIC IONS AND RARE GAS ATOMS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.236. 1975.
MAIER, WILLIAM B., II (L-3)

4-18
ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF DICHLORODIOXOMANGANESE(VI).
J. CHEM. SOC. FARADAY TRANS. 2, V.71, P.2002-15. 1975. (LA-UR-74-1670)*
JASINSKI, JERRY P. (CNC-4)
HOLT, SMITH L.

4-19
ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF MANGANESE(V) OXYTRICHLORIDE.
INORG. CHEM., V.14, P.1267-73. 1975.
(LA-UR-74-1414)
JASINSKI, JERRY P. (CNC-4)
HOLT, SMITH L.

4-20
ELECTRONIC STRUCTURE OF ALPHA PRIME CERIUM.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.298. 1975.
HILL, H. HUNTER (CMB-5)
KMETKO, EDWARD A. (T-4)

4-21
ENTROPY CORRELATION FOR THE 4F AND 5F METALS: RELATION OF ELECTRONIC PROPERTIES TO METALLIC RADII, MAGNETIC TRANSFORMATIONS AND THERMODYNAMICS OF VAPORIZATION.
TIC, 1975. 15P. MN (LA-UR-75-1354)
WARD, JOHN W. (CMB-5)
HILL, H. HUNTER (CMB-5)

4-22
EQUATION OF STATE OF NITROGEN TO 21 KBAR FROM SIMULTANEOUS MEASUREMENT OF P V T AND SOUND VELOCITY.
TIC, 1975. 9P. MN (LA-UR-75-420)
LIEBENBERG, DONALD H. (L-DOT)
MILLS, ROBERT L. (Q-26)
BRONSON, JOHN C. (Q-26)

4-23
EXPERIMENTAL AND CALCULATED ELECTRONIC STRUCTURE OF GASEOUS CHROMIUM OXYFLUORIDE AND CHROMIUM OXYCHLORIDE.
J. CHEM. PHYS., V.63, P.757-71. 1975.
(LA-UR-74-1180)*
JASINSKI, JERRY P. (CNC-4)
HOLT, SMITH L.
WOOD, JOHN H. (CMB-5)
ASPREY, LARNED B. (CNC-4)

4-24
FORMAL DERIVATION OF EFFECTIVE SPIN HAMILTONIANS FOR MACROSCOPIC MAGNETIC INSULATOR SYSTEMS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.502. 1975.
BRANDOW, BAIRD H. (T-9)

4-25
HARTREE-FOCK COMPTON PROFILES FOR THE ELEMENTS.
AT. DATA NUCL. DATA TABLES, V.16, P.201-309. 1975.
BIGGS, FRANK
MENDELSOHN, LAWRENCE B.
MANN, JOSEPH B., JR. (T-4)

4-26
HIGH ALTITUDE LOSS CONE AND CHARGE EXCHANGE CALCULATIONS, AND COMPARISON WITH STARFISH DATA.
ABSTRACT PUBLISHED IN:
ATMOSPHERIC EFFECTS. 1973. SYMPOSIUM. SAN DIEGO, CA, ABSTRACTS OF PAPERS, P.3. DNA, 1973. (DNA-LA-10)
ZINN, JOHN (J-10)
TIERNEY, MARTIN S. (J-10)

4-27
HIGH ORDER VACUUM POLARIZATION IN EXOTIC ATOMS.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.146. LASL, 1975. (LA-6030-C)
RINKER, GEORGE A., JR. (P-DOR)
WILETS, LAWRENCE

4-28
HIGHER ORDER CORRECTIONS TO ENERGY LEVELS OF MUONIC ATOMS.
LASL, 1975. 23P. (LA-6073-MS)
RINKER, GEORGE A., JR. (P-DOR)
STEFFEN, ROLF M. (P-DOR)

4-29
HUGONIOT EQUATION OF STATE OF THE LANTHANIDES.
J. PHYS. CHEM. SOLIDS, V.36, P.741-52. 1975. (LA-UR-74-1142)*
CARTER, WILLIAM J. (M-6)
FRITZ, JOSEPH N. (M-6)
MARSH, STANLEY P. (M-6)
MC QUEEN, ROBERT G. (M-6)

4-30
IMPLIED TEMPERATURE DEPENDENCE OF THE GRUNEISEN PARAMETER.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1512. 1975.
BARNES, JOHN F. (T-4)
DE VAULT, GUILLAUME P. (T-4)

4-31
IMPROVED OPACITY CALCULATIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.7, P.338. 1975.
MAGEE, NORMAN H. (T-4)
MERTS, ATHEL L. (T-4)
HUEBNER, WALTER F. (T-4)

4-32
ISOTOPE EFFECTS IN THE SCHUMANN-RUNGE BANDS OF MOLECULAR OXYGEN.
LASL, 1975. 10P. (LA-5871-MS)
HECHT, HARRY G. (CNC-2)
RABIDEAU, SHERMAN W. (CNC-3)
ENGLEMAN, ROLF, JR. (CMB-1)

4-33
LARGE ANGLE AMPLITUDE FOR POTENTIAL SCATTERING AT HIGH ENERGY.
LETT. NUOVO CIMENTO, V.13, P.389-92. 1975.
CHEN, TUAN W. (T-5)
HOOCK, D. W.

4-34
LASER PRODUCED L-SERIES X RAY SPECTRA.
PHYS. REV., V.A11, P.782-8. 1975.
BURKHALTER, P. G.
NAGEL, D. J.
COWAN, ROBERT D. (T-4)

4-35
MACH WAVES AND REFLECTED RAREFACTIONS IN ALUMINUM.
J. APPL. PHYS., V.46, P.2521-7. 1975. (LA-UR-75-40)*
NEAL, TIMOTHY R. (M-2)

4-36
MATRIX PHOTO-SPECTROSCOPY OF METAL HEXAFLUORIDES.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.170, PAPER NO.INOR-166. 1975.
PAINE, ROBERT T., JR. (CNC-3)
MC DOWELL, ROBIN S. (CNC-3)
ASPREY, LARNED B. (CNC-3)

4-37
MELTING AND COHESION IN F ELECTRON METALS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.298. 1975.
KMETKO, EDWARD A. (T-4)
HILL, H. HUNTER (CMB-5)

4-38
MELTING PROPERTIES AND SOUND VELOCITY OF NITROGEN TO 21 KILOBARS
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.463. 1975.
LIEBENBERG, DONALD H. (L-DOT)
MILLS, ROBERT L. (Q-26)
BRONSON, JOHN C. (Q-26)

4-39
MELTING PROPERTIES AND ULTRASONIC VELOCITY OF NITROGEN TO 20 KBAR.
J. CHEM. PHYS., V.63, P.4026-31. 1975. (LA-UR-75-1033)*
MILLS, ROBERT L. (Q-26)
LIEBENBERG, DONALD H. (L-DOT)
BRONSON, JOHN C. (Q-26)

4-40
MOSSBAUER STUDY OF RARE GAS MATRIX ISOLATED TELLURIUM -125 DIMERS, TELLURIUM -125 HEXAFLUORIDE, AND TELLURIUM -125 TETRACHLORIDE MOLECULES.
PHYS. REV., V.B12, P.1676-80. 1975.
BARRETT, P. H.
MONTANO, P. A.
MICKLITZ, H.
MANN, JOSEPH B., JR. (T-4)

4-41
MULTIPLE SCATTERING TREATMENT OF THE SOLVATED ELECTRON IN WATER.
J. CHEM. PHYS., V.62, P.2254-60. 1975. (LA-UR-74-1761)*
MOSKOWITZ, J. W. (CMB-5)
BORING, A. MICHAEL (J-10)
WOOD, JOHN H. (CMB-5)

4-42
NEW ELECTRONIC STATES OF N+(2).
J. PHYS. B., V.8, P.L100-4. 1975. (LA-UR-75-5011)*
CARTWRIGHT, DAVID C. (***)
DUNNING, THOMAS H., JR. (***)

4-43
NUCLEAR RESONANCES IN HADRONIC ATOMS.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.171. LASL, 1975. (LA-6030-C)
LEON, MELVIN (MP-3)

4-44
OCTAHEDRAL FINE STRUCTURE SPLITTINGS IN NU(3) OF SULFUR HEXAFLUORIDE.
J. MOL. SPECTROSC., V.58, P.165-8. 1975.
(LA-UR-75-330)*
ALDRIDGE, JACK P. (L-8)
FILIP, HENRY (L-8)
FLICKER, HERBERT J. (L-DOT)
HOLLAND, REDUS F. (L-8)
MC DOWELL, ROBIN S. (CNC-3)
NERESON, NORRIS G. (L-7)
FOX, KENNETH

4-45
ON THE (NU(1)-2NU(2)) FERMI RESONANCE LEVELS IN CARBON DIOXIDE.
LASL, 1975. 4P. (LA-5892-MS)
JUDD, O'DEAN P. (T-6)

4-46
ON THE PREFERENCE FOR VIBRATIONAL ENERGY IN DIATOMIC DISSOCIATION.
CHEM. PHYS. LETT., V.30, P.424-8.
1975.
KIEFER, JOHN H.
JOOSTEN, H. P. G.
BRESHEARS, W. DALE (CNC-3)

4-47
ON THE VALIDITY OF THE SLATER APPROXIMATION IN ELECTRON SCREENING IN EXOTIC ATOMS.
PHYS. REV., V.A11, P.385-6. 1975.
(LA-UR-74-1277)*
RINKER, GEORGE A., JR. (P-DOR)
MANN, JOSEPH B., JR. (T-4)

4-48
OSCILLATOR STRENGTHS FROM LINE ABSORPTION IN A HIGH TEMPERATURE FURNACE. 2. THE (0,0) BAND OF THE B(2)SIGMA(+) -X(2)SIGMA (+) TRANSITION IN CYANOGEN.
J. QUANT. SPECTROSC. RADIAT. TRANSFER, V.15, P.831-38. 1975. (LA-UR-75-63)*
ENGLEMAN, ROLF, JR. (CMB-1)
ROUSE, PRINCE E., JR. (WX-2)

4-49
PHOTOABSORPTION PROCESSES IN FLUORINE.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1455. 1975.
CARTWRIGHT, DAVID C. (T-6)
HAY, P. JEFFREY (T-6)

4-50
POTENTIAL CONSTANTS OF POTASSIUM ZINC TETRACYANIDE IN THE CRYSTAL LATTICE.
J. CHEM. PHYS., V.63, P.5401-10. 1975.
(LA-UR-75-1611)*
JONES, LLEWELLYN H. (CNC-4)
SWANSON, BASIL I. (CNC-4)

4-51
PROPOSAL REGARDING THE ELECTRONIC STRUCTURE OF ALPHA - CERIUM.
J. PHYS. F, V.5, P.1119-29. 1975.
(LA-UR-74-1669)*
HILL, H. HUNTER (CMB-5)
KMETKO, EDWARD A. (T-4)

4-52
R-MATRIX THEORY FOR ELECTRON - ATOM AND ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS.
CHEM. PHYS. LETT., V.31, P.237-41.
1975. (LA-UR-74-1471)*
SCHNEIDER, BARRY (T-6)

4-53
R-MATRIX THEORY FOR ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS. 2. ELECTRON - HYDROGEN(2) SCATTERING IN THE STATIC EXCHANGE MODEL.
PHYS. REV., V.A-11, P.1957-62. 1975.
(LA-UR-75-254)*
SCHNEIDER, BARRY (T-6)

4-54
REACTIONS OF DIATOMIC RARE GAS IONS WITH RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 50 EV.
J. CHEM. PHYS., V.62, P.4615-22. 1975.
(LA-UR-75-244)*
MAIER, WILLIAM B., II (L-3)

4-55
RELATIVISTIC EFFECTS IN THE THOMAS-FERMI ATOM.
INT. J. QUANTUM CHEM., SYMP. NO.9, P.51-8. 1975.
WABER, JAMES T. (***)
CANFIELD, J. M.

4-56
RELATIVISTIC HARTREE-FOCK COMPTON PROFILES FOR THE RARE GASES AND LEAD.
CHEM. PHYS. LETT., V.26, P.521-4.
1974.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.470. 1974.
MENDELSOHN, LAWRENCE B.
BIGGS, FRANK
MANN, JOSEPH B., JR. (T-4)

4-57
RESONANT LINE AND SATELLITE SPECTRA FROM ONE, TWO, AND THREE ELECTRON IONS IN LASER GENERATED PLASMAS.
REPORT OF NRL PROGRESS, APRIL 1975, P.60-2. NRL, 1975. (NRL-LA-321)
DOSCHEK, G. A.
FELDMAN, U.
NAGEL, D. J.
WHITLOCK, R. R.
BEHRING, W. E.
COWAN, ROBERT D. (T-4)

4-58
SATELLITE LINE SPECTRA FROM LASER PRODUCED PLASMAS.
ASTROPHYS. J., V.192, P.213-20. 1974.
FELDMAN, U.
DOSCHEK, G. A.
NAGEL, D. J.
COWAN, ROBERT D. (T-4)
WHITLOCK, R. R.

4-59
SELF CONSISTENT FIELD CALCULATION OF THE ELECTRONIC STRUCTURE OF THE URANYL ION.
J. CHEM. PHYS., V.63, P.638-42. 1975.
(LA-UR-74-1088)*
BORING, A. MICHAEL (J-10)
WOOD, JOHN H. (CMB-5)
MOSKOWITZ, J. W. (CMB-5)

4-60
SELF CONSISTENT PHONON CALCULATIONS AND EQUATIONS OF STATE OF SOLID HYDROGEN AND DEUTERIUM.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.462. 1975.
ANDERSON, ALLAN B. (T-4)
RAICH, JOHN C.
ETTERS, RICHARD D.

4-61
SEMIEMPIRICAL ATOMIC MASS FORMULA.
NUCL. PHYS., V.A238, P.491-532. 1975.
(LA-UR-74-895)*
SEEGER, PHILIP A. (P-11)
HOWARD, W. MICHAEL (P-11)

4-62
SORPTION IN INHOMOGENEOUS SLABS.
J. CHEM. PHYS., V.62, P.4804-8. 1975.
(LA-UR-75-350)*
BDZIL, JOHN B. (M-3)
FRISCH, HARRY L.

4-63
SOUND VELOCITY AND THE EQUATION OF STATE OF NITROGEN(2) TO 22 KBAR.
J. CHEM. PHYS., V.63, P.1198-204. 1975. (LA-UR-75-619)*
MILLS, ROBERT L. (Q-26)
LIEBENBERG, DONALD H. (L-DOT)
BRONSON, JOHN C. (Q-26)

4-64
STATISTICAL THERMODYNAMIC PROPERTIES OF HEXAFLUORIDE MOLECULES.
LASL, 1975. 38P. (LA-6025-MS)
JACKSON, DOUGLAS E. (L-8)

4-65
STATISTICAL WEIGHTS FOR OCTAHEDRAL SPHERICAL TOP MOLECULES.
J. MOL. SPECTROSC., V.58, P.158-64. 1975.
CANTRELL, CYRUS D., III (L-DOT)
GALBRAITH, HAROLD W. (T-7)

4-66
TRANSITIONS 2S(2)2P(K)-2S2P(K+1) OF THE FLUORINE(I), OXYGEN(I), AND NITROGEN(I) ISOELECTRONIC SEQUENCES.
ASTROPHYS. J., V.188, P.417-22. 1974.
DOSCHEK, G. A.
FELDMAN, U.
COWAN, ROBERT D. (T-4)
COHEN, LEONARD

4-67
TRANSITIONS 2S(2)2P(K)-2S2P(K+1) OF THE NITROGEN(I) AND CARBON(I) ISOELECTRONIC SEQUENCES.
ASTROPHYS. J., V.196, P.613. 1975.
FELDMAN, U.
DOSCHEK, G. A.
COWAN, ROBERT D. (T-4)
COHEN, LEONARD

4-68
ULTRAVIOLET CHARGE EXCHANGE ENERGY LOSS PARTITION AS A FUNCTION OF BURST ALTITUDE AND YIELD TO MASS RATIO.
ABSTRACT PUBLISHED IN:
ATMOSPHERIC EFFECTS. 1973. SYMPOSIUM, SAN DIEGO, CA, ABSTRACTS OF PAPERS, P.115. DNA, 1973. (DNA-LA-10)
TIERNEY, MARTIN S. (J-10)
ZINN, JOHN (J-10)

4-69
VIBRATIONAL SPECTRUM AND FORCE FIELD OF MOLYBDENUM HEXAFLUORIDE.
J. CHEM. PHYS., V.62, P.3974-8. 1975.
(LA-UR-74-1976)*
MC DOWELL, ROBIN S. (CNC-3)
SHERMAN, RUTH J. (CNC-3)
ASPREY, LARNED B. (CNC-3)
KENNEDY, R. CRAIG (CNC-3)

5. BIOLOGY AND MEDICINE

5-1
AGE RESPONSE FOR LINE CHO CHINESE HAMSTER CELLS EXPOSED TO X IRRADIATION AND ALPHA PARTICLES FROM PLUTONIUM.
RADIAT. RES., V.63, P.422-33. 1975.
(LA-UR-74-1419)*
RAJU, MUDUNDI R. (H-10)
TOBEY, ROBERT A. (H-9)
JETT, JAMES H. (H-10)
WALTERS, RONALD A. (H-9)

5-2
ANALYSIS OF CELL AGE DISTRIBUTION DURING ASCITES TUMOR GROWTH.
J. NAT CANCER INST., V.53, P.285-7. 1974.
MARUYAMA, Y.
RAJU, MUDUNDI R. (H-9)

5-3
ANNUAL REPORT. SEROLOGIC TEST DEVELOPMENT, JULY 1, 1973 THROUGH JUNE 30, 1974.
LASL, 1975. 13P. (LA-5824-PR)
SAUNDERS, GEORGE C. (H-6)
CLINARD, ELVA H. (H-6)
PAYNE, ROBERT J. (H-6)

5-4
APPEARANCE OF CYTOPLASMIC INFORMOSOMES IN CULTURED CHINESE HAMSTER CELLS IN THE ABSENCE OF PROTEIN SYNTHESIS.
FEBS LETT., V.55, P.194-7. 1975.
(LA-UR-75-523)*
ENGER, M. DUANE (H-9)
CAMPBELL, EVELYN W. (H-9)
HANNERS, JOHN L. (H-9)

5-5
APPLICATION OF FLOW MICROFLUOROMETRY TO PROBLEMS IN RADIOTHERAPY.
BR. J. RADIOL., V.48, P.66-7. 1975.
(LA-UR-74-105)*
RAJU, MUDUNDI R. (H-10)
HORAN, PAUL K. (H-10)
ROMERO, ANGELA (H-10)
MARTIN, JOHN C. (H-10)
STERNHAGEN, C. J.

5-6
ARRESTED AND CYCLING CHO CELLS AS A KINETIC MODEL.
TIC, 1975. 29P. MN (LA-UR-75-2056)
TOBEY, ROBERT A. (H-9)

5-7
AUTOMATED CANCER CELL SORTING AND ANALYSIS, APRIL 1 - SEPTEMBER 30, 1975.
LASL, 1975. 11P. (LA-6144-PR)
INGRAM, MARYLOU (H-10)
CRISSMAN, HARRY A. (H-10)
CROWELL, JOHN M. (H-10)
HANSEN, KAREN M. (H-10)
MARTIN, JOHN C. (H-10)
SALZMAN, GARY C. (H-10)
STEINKAMP, JOHN A. (H-10)
SVITRA, ZITA V. (H-10)

5-8
AUTOMATED CANCER CELL SORTING AND ANALYSIS, APRIL 1, 1974 - MARCH 31, 1975.
LASL, 1975. 14P. (LA-5921-PR)
STEINKAMP, JOHN A. (H-10)
CRISSMAN, HARRY A. (H-10)
MARTIN, JOHN C. (H-10)
HANSEN, KAREN M. (H-10)
CROWELL, JOHN M. (H-10)
HORAN, PAUL K. (H-10)
ROMERO, ANGELA (H-10)
SALZMAN, GARY C. (H-10)

5-9
B LYMPHOCYTE ACTIVATION AND LATTICE FORMATION.
TRANSPLANT. REV., V.23, P.23-36. 1975.
(LA-UR-74-1839)*
BELL, GEORGE I. (T-DOT)

5-10
BIOCHEMICAL EVENTS DURING THE MAMMALIAN CELL CYCLE.
RADIATION RESEARCH. 1970. 4TH INTERNATIONAL CONGRESS, EVIAN, FRANCE. PROC., ADVANCES IN RADIATION RESEARCH, BIOLOGY AND MEDICINE, V.2, P.869-80. GORDON AND BREACH, 1975.
(612.04:I61RA 4TH PT.1 V.2)
PETERSEN, DONALD F. (H-4)
ANDERSON, ERNEST C. (H-4)
TOBEY, ROBERT A. (H-4)

5-11
BIOCHEMISTRY OF G2 AND MITOSIS.
CELL CYCLE AND CANCER, R. BASERGA, ED. CH.10, P.309-53. MARCEL DEKKER, 1971.
(575:B299C)
TOBEY, ROBERT A. (H-4)
PETERSEN, DONALD F. (H-4)
ANDERSON, ERNEST C. (H-4)

5-12
BIOLOGICAL EFFECTS OF NEGATIVE PIONS.
TIC, 1973. 15P. MN (LA-UR-73-1389)
ALSO PUBLISHED IN:
EXCERPTA MED. INT. CONGR. SER., NO. 339, V.2, P.441-6. 1974.
(LA-UR-73-152)*
RAJU, MUDUNDI R. (H-4)

5-13
BIOLOGICAL EFFECTS OF THE LOS ALAMOS MESON BEAM ON CELLS IN CULTURE.
TIC, 1975. 17P. MN (LA-UR-75-253)
ALSO PUBLISHED IN:
RADIOLOGY, V.116, P.191-3. 1975.
(LA-UR-74-1467)*
RAJU, MUDUNDI R. (H-10)
DICELLO, JOHN F., JR. (MP-3)
TRUJILLO, THEODORE T. (H-10)
KLIGERMAN, MORTON M. (ADRT)

5-14
BIOLOGICAL EFFECTS OF ULTRASOUND ON CULTURED MAMMALIAN CELLS.
PROC. SOC. PHOTO-OPT. INSTRUM. ENG., V.47, P.167-73. 1975. (LA-UR-74-5034)*
MARTINS, B. I.
RAJU, MUDUNDI R. (***)
HAYES, T. L.
TOBIAS, C. A.

5-15
BIOMEDICAL APPLICATIONS OF THE CLINTON P. ANDERSON MESON PHYSICS FACILITY.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.8-9. 1975.
ROSEN, LOUIS (MP-DO)

5-16
BIOMEDICAL PROGRAM LEADING TO THERAPEUTIC TRIALS OF PION RADIATION THERAPY AT LOS ALAMOS.
CANCER, V.36, P.1675-80. 1975.
KLIGERMAN, MORTON M. (DIR OFF)
PETERSEN, DONALD F. (H-9)

5-17
CARBON -13 FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE STUDIES OF FRACTIONATED CANDIDA UTILIS MEMBRANES.
BIOCHEMISTRY, V.14, P.5492-500. 1975.
(LA-UR-74-1871)*
LONDON, ROBERT E. (CNC-4)
KOLLMAN, VICTOR H. (H-11)
MATWIYOFF, NICHOLAS A. (CNC-4)

5-18
CELL AGE DISTRIBUTION STUDY OF LSA ASCITES LYMPHOMA DURING GROWTH.
ABSTRACT PUBLISHED IN:
PROC. AM. ASSOC. CANCER RES., V.15, P.146. 1974.
MARUYAMA, Y.
RAJU, MUDUNDI R. (H-9)

5-19
CELL CLASSIFICATION BY LASER LIGHT SCATTERING: IDENTIFICATION AND SEPARATION OF UNSTAINED LEUKOCYTES.
ACTA CYTOL., V.19, P.374-7. 1975.
(LA-UR-74-1925)*
SALZMAN, GARY C. (H-10)
CROWELL, JOHN M. (H-10)
MARTIN, JOHN C. (H-10)
TRUJILLO, THEODORE T. (H-10)
ROMERO, ANGELA (H-10)
MULLANEY, PAUL F. (H-10)
LA BAUVE, PATRICIA M. (H-4)

5-20
CELL CLASSIFICATION BY MULTIANGLE LASER LIGHT SCATTERING IN A FLOW SYSTEM.
ABSTRACT PUBLISHED IN:
BULL. N. MEX. ACAD. SCI., V.15, NO.2, P.47. 1975.
SALZMAN, GARY C. (H-10)
CROWELL, JOHN M. (H-10)
MARTIN, JOHN C. (H-10)
LA BAUVE, PATRICIA M. (H-4)
MULLANEY, PAUL F. (H-10)

5-21
CELL CYCLE ANALYSIS: OPENING REMARKS.
MAMMALIAN CELLS: PROBES AND PROBLEMS. 1973. 1ST LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROC., P.125-7. TIC, 1975.
(CONF-731007)
PETERSEN, DONALD F. (H-9)

5-22
CELL CYCLE ANALYSIS: SESSION SUMMARY.
MAMMALIAN CELLS: PROBES AND PROBLEMS. 1973. 1ST LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROC., P.179-83. TIC, 1975.
(CONF-731007)
PETERSEN, DONALD F. (H-9)

5-23
CELL CYCLE DEPENDENT PHOSPHORYLATION OF DIFFERENT REGIONS OF F1 HISTONE.
ABSTRACT PUBLISHED IN:
J. CELL BIOL., VP.A176. 1975.
HOHMANN, PHILIP G. (H-9)
GURLEY, LAWRENCE R. (H-9)
TOBEY, ROBERT A. (H-9)

5-24
CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES.
BIOCHEM. BIOPHYS. RES. COMMUN., V.63, P.126-33. 1975. (LA-UR-74-1941)*
HOHMANN, PHILIP G. (H-9)
TOBEY, ROBERT A. (H-9)
GURLEY, LAWRENCE R. (H-9)

5-25
CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES.
ABSTRACT PUBLISHED IN:
FED. PROC., FED. AM. SOC. EXP. BIOL., V.34, P.705. 1975.
HOHMANN, PHILIP G. (H-9)
TOBEY, ROBERT A. (H-9)
GURLEY, LAWRENCE R. (H-9)

5-26
CELL CYCLE DEPENDENT SURFACE CHANGES IN CHINESE HAMSTER CELLS GROWN IN SUSPENSION CULTURE.
EXP. CELL RES., V.95, P.396-404. 1975.
ENLANDER, DEREK
TOBEY, ROBERT A. (H-9)
SCOTT, THEA

5-27
CELL CYCLE SPECIFIC CHANGES IN ORGANIZATION OF CHROMATIN DETECTED BY POLYANION MEDIATED CHROMATIN DECONDENSATION.
ABSTRACT PUBLISHED IN:
FED. PROC., FED. AM. SOC. EXP. BIOL., V.34, P.581. 1975.
HILDEBRAND, CARL E. (H-9)
GURLEY, LAWRENCE R. (H-9)
TOBEY, ROBERT A. (H-9)
WALTERS, RONALD A. (H-9)

5-28
CELL CYCLE SPECIFIC CHANGES IN CHROMATIN ORGANIZATION.
BIOCHEM. BIOPHYS. RES. COMMUN., V.63, P.134-9. 1975. (LA-UR-74-1960)*
HILDEBRAND, CARL E. (H-9)
TOBEY, ROBERT A. (H-9)

5-29
CELL PREPARATION AND STAINING FOR FLOW SYSTEMS.
TIC, 1974. 20P. MN (LA-UR-73-1614)
ALSO PUBLISHED IN:
MAMMALIAN CELLS: PROBES AND PROBLEMS. 1973. 1ST LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROC., P.94-106. TIC, 1975. (CONF-731007)
CRISSMAN, HARRY A. (H-10)

5-30
CELL SURVIVAL AS A FUNCTION OF DEPTH FOR NEGATIVE PIONS AND HEAVY IONS.
ABSTRACT PUBLISHED IN:
RADIAT. RES., V.62, P.555. 1975.
RAJU, MUDUNDI R. (H-10)
AMOLS, HOWARD I. (MP-3)
ET AL

5-31
CELLULAR DNA CONTENT AND CHROMOSOME NUMBER IN HETEROPLOID CELL POPULATIONS.
TIC, 1975. 16P. MN (LA-UR-75-621)
DEAVEN, LARRY L. (H-9)

5-32
CESIUM -134 IN HUMAN AUTOPSY TISSUE.
HEALTH PHYS., V.29, P.871-2. 1975.
(LA-UR-75-694)*
IDE, HAROLD M. (H-5)
MC INROY, JAMES F. (H-5)

5-33
CESIUM -137 ACTIVITY IN A NORMAL NEW MEXICO POPULATION: 1956-1973.
ABSTRACT PUBLISHED IN:
HEALTH PHYS., V.29, P.902. 1975.
FURCHNER, JOHN E. (H-4)
WILSON, JULIE S. (H-4)
RICHMOND, CHESTER R. (H-DO)

5-34
CESIUM KINETICS DATA FOR ESTIMATING FOOD CONSUMPTION RATES OF TROUT.
HEALTH PHYS., V.29, P.301-6. 1975.
(LA-UR-75-431)*
HAKONSON, THOMAS E. (H-8)
GALLEGOS, ANTHONY F.
WHICKER, F. WARD

5-35
CHAIRMAN'S CLOSING REMARKS. SESSION V: THE CELL SURFACE.
TIC, 1974. 5P. MN (LA-UR-73-1721)
ALSO PUBLISHED IN:
MAMMALIAN CELLS: PROBES AND PROBLEMS. 1973. 1ST LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROC., P.242-5. TIC, 1975. (CONF-731007)
KRAEMER, PAUL M. (H-9)

5-36
CHAIRMAN'S REMARKS. SESSION V: THE CELL SURFACE.
TIC, 1974. 8P. MN (LA-UR-73-1722)
ALSO PUBLISHED IN:
MAMMALIAN CELLS: PROBES AND PROBLEMS. 1973. 1ST LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROC., P.296-8. TIC, 1975. (CONF-731007)
KRAEMER, PAUL M. (H-9)

5-37
CHARACTERISTICS OF A NEGATIVE PION BEAM FOR THE IRRADIATION OF SUPERFICIAL NODULES.
ABSTRACT PUBLISHED IN:
RADIAT. RES., V.62, P.563. 1975.
RICHMAN, CHAIM (H-10)

5-38
CHARACTERISTICS OF A NEGATIVE PION BEAM IN A THERAPEUTIC APPLICATION.
RADIOLOGY, V.116, P.187-9. 1975.
(LA-UR-74-1980)*
RICHMAN, CHAIM (H-10)

5-39
CHROMOSOME G-BANDING AND DNA CONSTANCY IN ANEUPLOID CELL POPULATIONS.
TIC, 1974. 28P. MN (LA-UR-74-146)
ALSO PUBLISHED IN:
MAMMALIAN CELLS: PROBES AND PROBLEMS. 1973. 1ST LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROC., P.212-27. TIC, 1975. (CONF-731007)
DEAVEN, LARRY L. (H-9)
SANDERS, PHYLLIS C. (H-9)
GRILLY, JULIAMARIE L. (H-DO)
KRAEMER, PAUL M. (H-9)
PETERSEN, DONALD F. (H-9)

5-40
CIRCULAR DICHROISM SPECTRA OF POLY D(AC)-D(GT)*, POLY R(AC)-R(GU)*, AND HYBRIDS POLY D(AC)-R(GU)* AND POLY R(AC)-D(GT)* IN THE PRESENCE OF ETHANOL.
BIOPOLYMERS, V.14, P.487-98. 1975.
GRAY, DONALD M.
RATLIFF, ROBERT L. (H-9)

5-41
CLASSIFICATION OF HUMAN LEUKOCYTES BY MULTIANGLE LASER LIGHT SCATTERING IN A FLOW SYSTEM.
ABSTRACT PUBLISHED IN:
BIOPHYS. J., V.15, P.A240. 1975.
SALZMAN, GARY C. (H-10)
CROWELL, JOHN M. (H-10)
MARTIN, JOHN C. (H-10)
LA BAUVE, PATRICIA M. (H-4)
MULLANEY, PAUL F. (H-10)

5-42
COMPARATIVE EFFECTS OF THREE NITROSUREA DERIVATIVES ON MAMMALIAN CELL CYCLE PROGRESSION.
CANCER RES., V.35, P.460-70. 1975.
(LA-UR-74-1040)*
TOBEY, ROBERT A. (H-9)
CRISSMAN, HARRY A. (H-10)

5-43
COMPARATIVE METABOLISM OF RADIONUCLIDES IN MAMMALS. 9. RETENTION OF SELENIUM -75 IN THE MOUSE, RAT, MONKEY, AND DOG.
HEALTH PHYS., V.29, P.641-8. 1975.
(LA-UR-74-1609)*
FURCHNER, JOHN E. (H-4)
LONDON, JERRY E. (H-4)
WILSON, JULIE S. (H-4)

5-44
COMPLEX CARBOHYDRATES OF A DETACHMENT VARIANT SUBLINE OF CHO CELLS.
ABSTRACT PUBLISHED IN:
J. CELL BIOL., V.67, P.A223. 1975.
KRAEMER, PAUL M. (H-9)
BARNHART, BENJAMIN J. (H-9)
ATHERLY, ALAN G. (H-9)

5-45
COMPOSITIONAL AND FUNCTIONAL RELATIONSHIP OF SUBRIBOSOMAL PARTICLES TO RIBOSOMES AND POLYSOMES.
ABSTRACT PUBLISHED IN:
FED. PROC., V.34, P.706. 1975.
ENGER, M. DUANE (H-9)
CAMPBELL, EVELYN W. (H-9)
WALTERS, RONALD A. (H-9)
HILDEBRAND, CARL E. (H-9)
HAMPEL, ARNOLD E.
HENDERSON, D.

5-46
COMPUTER MODELING OF NEUTRON DOSE AT VARIOUS LOCATIONS WITHIN THE BODY DURING PION RADIOTHERAPY.
TIC, 1975. 17P. MN (LA-UR-74-1400)
SCHILLACI, MARIO E. (MP-3)
ROEDER, DENNIS L. (MP-7)

5-47
CONFORMATION OF POLY D(A-A-T)-D(A-T-T).
J. MOL. BIOL., V.98, P.243-8. 1975.
SELSING, ERIK
ARNOTT, STRUTHER
RATLIFF, ROBERT L. (H-9)

5-48
CURRENT STATUS OF INFORMATION OBTAINED FROM PLUTONIUM CONTAMINATED PEOPLE.
TIC, 1975. 41P. MN (LA-UR-74-1826)
RICHMOND, CHESTER R. (H-DO)

5-49
DECOMPOSITION OF CARBON -14 LABELED PLANT MATERIALS IN A GRASSLAND SOIL UNDER FIELD CONDITIONS.
SOIL SCI. SOC. AM. PROC., V.39, P.643-8. 1975.
NYHAN, JOHN W. (H-8)

5-50
DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, APRIL 1 - JUNE 30, 1975.
LASL, 1975. 2P. (LA-6033-PR)
MULLANEY, PAUL F. (H-10)
SALZMAN, GARY C. (H-10)
WANEK, PATSY L. (H-10)

5-51
DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, SEPTEMBER 1, 1974 - MARCH 1, 1975.
LASL, 1975. 2P. (LA-5899-PR)
MULLANEY, PAUL F. (H-10)
SALZMAN, GARY C. (H-10)
CRISSMAN, HARRY A. (H-10)

5-52
DIAGNOSES OF DISEASE STATES BY FLUORESCENT MEASUREMENTS UTILIZING SCANNING LASER BEAMS.
FILED 1973, PATENTED NOV. 11, 1975.
(U. S. PATENT 3,918,812)
HOLM, DALE M. (H-6)

5-53
DIFFERENT DRUGS ARREST CELLS AT A NUMBER OF DISTINCT STAGES IN G2.
NATURE, V.254, P.245-7. 1975.
(LA-UR-74-1859)*
TOBEY, ROBERT A. (H-9)

5-54
DIFFERENTIAL EFFECTS OF TWO CHEMOTHERAPEUTIC AGENTS, STREPTOZOTOCIN AND CHLOROZOTOCIN, ON THE MAMMALIAN CELL CYCLE.
EUR. J. CANCER, V.11, P.433-41. 1975.
(LA-UR-74-1560)*
TOBEY, ROBERT A. (H-9)
OKA, MELVIN S. (H-10)
CRISSMAN, HARRY A. (H-10)

5-55
DIGITAL ENHANCEMENT OF BIOMEDICAL RADIOGRAPHS.
TIC, 1975. 19P. MN (LA-UR-75-133)
TRUSSELL, HENRY J. (C-8)
JANNEY, DONALD H. (C-8)
HUNT, BOB R. (C-8)

5-56
DNA CONSTANCY IN HETEROPLOIDY AND THE STEM LINE THEORY OF TUMORS.
SCIENCE, V.174, P.714-7. 1971.
(LA-DC-12692)*
ALSO PUBLISHED IN:
READINGS IN MAMMALIAN CELL CULTURE, R. POLLACK, ED. P.470-3. COLD SPRING HARBOR LABORATORY, 1975.
(611.08:P771R 1975)
KRAEMER, PAUL M. (H-4)
PETERSEN, DONALD F. (H-4)
VAN DILLA, MARVIN A. (H-4)

5-57
DOSIMETRY FOR PION BEAMS AT LAMPF.
ABSTRACT PUBLISHED IN:
RADIAT. RES., V.62, P.562-3. 1975.
DICELLO, JOHN F., JR. (MP-3)
AMOLS, HOWARD I. (MP-3)
LANE, THOMAS F. (MP-3)
LUNDY, ARVID S. (MP-3)
DOSS, JAMES D. (MP-3)
KNOWLES, HARROLD B. (MP-3)
BARNES, JAMES E. (MP-3)

5-58
ENERGY TRANSFER IN PHOTOSYNTHESIS: PIGMENT CONCENTRATION EFFECTS AND FLUORESCENT LIFETIMES.
FEBS LETT., V.54, P.358-62. 1975.
(LA-UR-75-62)*
SHAPIRO, STANLEY L. (L-2)
KOLLMAN, VICTOR H. (H-11)
CAMPILLO, ANTHONY J. (L-2)

5-59
EVALUATION OF LITHIUM BORATE AS A 7000-R DOSIMETER.
LASL, 1975. 6P. (LA-5927-MS)
HOLM, DALE M. (H-6)
PAYNE, ROBERT J. (H-6)

5-60
EVALUATION OF SIX FLUORESCENT PROTEIN STAINS FOR USE IN FLOW MICROFLUOROMETRY.
STAIN TECHNOL., V.50, P.279-84. 1975.
(LA-UR-75-393)*
FREEMAN, DALE (H-10)
CRISSMAN, HARRY A. (H-10)

5-61
EVALUATION OF SOLUBLE ANTIGEN FLUORESCENT ANTIBODY TEST FOR ANTIBODIES TO TRICHINELLA SPIRALIS IN EXPERIMENTALLY INFECTED SWINE.
AM. J. VET. RES., V.36, P.615-8.
1975. (LA-UR-74-976)*
CLINARD, ELVA H. (H-6)

5-62
EVIDENCE THAT X IRRADIATION INHIBITS DNA REPLICON INITIATION IN CHINESE HAMSTER CELLS.
BIOCHEM. BIOPHYS. RES. COMMUN., V.65, P.265-71. 1975. (LA-UR-75-920)*
WALTERS, RONALD A. (H-9)
HILDEBRAND, CARL E. (H-9)

5-63
EXCITON TRANSFER IN DNA.
OPT. COMMUN., V.15, P.308-10. 1975.
(LA-UR-75-992)*
CAMPILLO, ANTHONY J. (L-2)
GOAD, WALTER B., JR. (T-10)
KOLLMAN, VICTOR H. (H-11)
SHAPIRO, STANLEY L. (L-2)

5-64
EXISTENCE OF A RESIDUAL NUCLEAR PROTEIN MATRIX IN CULTURED CHINESE HAMSTER CELLS.
ABSTRACT PUBLISHED IN:
J. CELL BIOL., V.67, P.A169. 1975.
HILDEBRAND, CARL E. (H-9)
OKINAKA, RICHARD (H-9)
GURLEY, LAWRENCE R. (H-9)

5-65
FLOW MICROFLUOROMETRIC ANALYSIS OF ISOLATED CHINESE HAMSTER CHROMOSOMES.
EXP. CELL RES., V.94, P.464-8. 1975.
STUBBLEFIELD, ELTON
CRAM, L. SCOTT (H-10)
DEAVEN, LARRY L. (H-9)

5-66
FLOW SYSTEM MULTIANGLE LIGHT SCATTERING INSTRUMENT FOR BIOLOGICAL CELL CHARACTERIZATION.
ABSTRACT PUBLISHED IN:
J. OPT. SOC. AM., V.65, P.1170-1.
1975.
SALZMAN, GARY C. (H-10)
CROWELL, JOHN M. (H-10)
MULLANEY, PAUL F. (H-10)

5-67
FLOW SYSTEM MULTIANGLE LIGHT SCATTERING INSTRUMENT FOR CELL CHARACTERIZATION.
CLIN. CHEM., V.21, P.1297-304. 1975.
(LA-UR-75-434)*
ALSO PUBLISHED AS:
TIC, 1975. 46P. MN (LA-UR-75-434)
SALZMAN, GARY C. (H-10)
CROWELL, JOHN M. (H-10)
GOAD, CHRISTOPHER A. (H-10)
HANSEN, KAREN M. (H-10)
HIEBERT, RICHARD D. (E-3)
LA BAUVE, PATRICIA M. (H-4)
MARTIN, JOHN C. (H-10)
MULLANEY, PAUL F. (H-10)

5-68
FLUORESCENCE LIFETIMES OF ALPHA AND BETA CAROTENES.
BIOCHIM. BIOPHYS. ACTA, V.387, P.533-5.
1975. (LA-UR-74-1945)*
CAMPILLO, ANTHONY J. (L-2)
HYER, RONALD C. (L-2)
KOLLMAN, VICTOR H. (H-11)
SHAPIRO, STANLEY L. (L-2)
SUTPHIN, HOWARD D. (L-4)

5-69
FOUR FACES OF CHO.
ELECTRON MICROSCOPY SOCIETY OF AMERICA. 1974. 32ND ANNUAL MEETING, ST. LOUIS. PROC., P.268-9. CLAITOR'S PUBLISHING DIVISION, 1974.
(535:E38M 1974)
ENLANDER, DEREK
SCOTT, THEA
TOBEY, ROBERT A. (H-9)

5-70
H-DIVISION PROGRESS REPORT 20 MAY 1949 - 20 JUNE 1949.
LASL, 1949. DECLASSIFIED 1971. 31P.
(LAMS-917)
SHIPMAN, THOMAS L.

5-71
H-DIVISION PROGRESS REPORT, 20 JULY 1949 - 20 AUGUST 1949.
LASL, 1949. DECLASSIFIED 1971. 38P.
(LAMS-941)
SHIPMAN, THOMAS L.

5-72
H-DIVISION PROGRESS REPORT, 20 JUNE 1949 - 20 JULY 1949.
LASL, 1949. DECLASSIFIED 1971. 31P.
(LAMS-929)
SHIPMAN, THOMAS L.

5-73
HEALTH DIVISION ANNUAL REPORT 1952.
LASL, 1953. DECLASSIFIED 1971. 71P.
(LA-1538)
SHIPMAN, THOMAS L.

5-74
HEAVY ION IRRADIATION OF HUMAN AND CHINESE HAMSTER CELLS IN VITRO.
RADIAT. RES., V.61, P.288-97. 1975.
(LA-UR-74-1008)*
TODD, PAUL (H-10)

5-75
HIGH SPEED OPTICAL ANALYSIS OF MICROSCOPIC PARTICLES.
TIC, 1975. 16P. MN (LA-UR-74-1687)
CROWELL, JOHN M. (H-10)
SALZMAN, GARY C. (H-10)
MULLANEY, PAUL F. (H-10)
MARTIN, JOHN C. (H-10)

5-76
IMMUNODIFFUSION IN GELS CONTAINING ERYTHROCYTE ANTIGEN. 1. THEORY FOR DIFFUSION OF ANTISERUM FROM A CIRCULAR WELL.
J. THEORET. BIOL., V.52, P.317-34.
1975. (LA-UR-74-296)*
ABSTRACT PUBLISHED IN:
FEDERATION PROC., V.33, P.1561. 1974.
GOLDSTEIN, BYRON
DE LISI, CHARLES P. (T-DOT)
ABATE, JOSEPH

5-77
IMPACT OF ELECTRONIC IDENTIFICATION AND DISEASE DETECTION ON THE ROLE OF THE VETERINARIAN.
U. S. ANIMAL HEALTH ASSOCIATION. 1974.
78TH ANNUAL MEETING, ROANOKE, VA.
PROC., P.152-66. THE ASSOCIATION,
1975.** (LA-UR-74-1568)*
HENSLEY, JOHN C.
CRAM, L. SCOTT (H-10)
SAUNDERS, GEORGE C. (H-6)
HOLM, DALE M. (H-6)

5-78
IMPORTANCE OF NONUNIFORM DOSE DISTRIBUTION IN AN ORGAN.
TIC, 1974. 50P. MN (LA-UR-74-1477)
ALSO PUBLISHED IN:
HEALTH PHYS., V.29, P.525-37. 1975.
(LA-UR-74-1477)*
RICHMOND, CHESTER R. (H-DO)

5-79
IN VIVO TISSUE ANALYSIS USING MU MESIC X RAYS.
LASL, 1975. 9P. (LA-5867-MS)
HUTSON, RICHARD L. (MP-3)

5-80
INCIDENCE OF ANEUPLOIDY IN A HUMAN POPULATION.
AM. J. HUM. GENET., V.28, P.62-8.
1976.
ABSTRACT PUBLISHED IN:
PEDIATR. RES. V.7, P.344. 1975.
GOAD, WALTER B., JR. (T-10)
ROBINSON, ARTHUR
PUCK, THEODORE T. (H-4)

5-81
INITIAL COMPARATIVE RESPONSE OF EXPERIMENTAL TUMORS TO PEAK PIONS AND X RAYS.
TIC, 1975. 12P. MN (LA-UR-74-1887)
ALSO PUBLISHED IN:
RADIOLOGY, V.116, P.181-2. 1975.
KLIGERMAN, MORTON M. (ADRT)
DICELLO, JOHN F., JR. (MP-3)
DAVIS, H. T.
THOMAS, R. A.
STERNHAGEN, C. J.
GOMEZ, L.
PETERSEN, DONALD F. (H-9)

5-82
INTRODUCTION TO FLOW SYSTEMS FOR CELL ANALYSIS AND SORTING.
TIC, 1975. 18P. (LA-UR-75-898)
MULLANEY, PAUL F. (H-10)

5-83
INVESTIGATION OF THE TWO COMPONENT RADIATION INJURY CONCEPT USING EQUIVALENT RESIDUAL DOSE FACTORS.
LASL, 1975. 7P. (LA-5813-MS)
SPALDING, JOHN F. (H-4)
JOHNSON, OGDEN S. (H-4)
TIETJEN, GARY L. (C-5)

5-84
IODIZED STARCH GRANULES AS A CAUSE OF STARCH PERITONITIS.
SURG. FORUM, V.25, P.372-4. 1974.
(LA-UR-73-376)*
ALSO PUBLISHED AS:
TIC, 1975. 4P. MN (LA-UR-74-842)
GOODRICH, EDWARD O., JR.
PRINE, JAMES R. (H-4)
WILSON, JULIE S. (H-4)

5-85
ISOLATION OF STRONTIUM -82 FROM 200-600 MEV PROTON IRRADIATED MOLYBDENUM TARGETS FOR BIOMEDICAL APPLICATIONS.
J. INORG. NUCL. CHEM., V.37, P.413-7. 1975. (LA-UR-74-763)*
GRANT, PATRICK M. (CNC-11)
KAHN, MILTON (CNC-11)
O'BRIEN, HAROLD A., JR. (CNC-11)

5-86
KINETIC PROPERTIES OF AN ENZYME HIGHLY ENRICHED IN CARBON -13.
BIOCHIM. BIOPHYS. ACTA, V.377, P.9-14. 1975.
EAKIN, R. T. (CNC-4)

5-87
KINETICS OF HEMOLYTIC PLAQUE FORMATION. 2. INHIBITION OF PLAQUES BY HAPTEN.
J. THEORET. BIOL., V.51, P.313-35. 1975. (LA-UR-74-393)*
DE LISI, CHARLES P. (T-DOT)
GOLDSTEIN, BYRON

5-88
KINETICS OF HEMOLYTIC PLAQUE FORMATION. 3. INHIBITION OF PLAQUES BY ANTIGEN.
J. THEORET. BIOL., V.51, P.337-45. 1975. (LA-UR-74-419)*
DE LISI, CHARLES P. (T-DOT)

5-89
KINETICS OF HEMOLYTIC PLAQUE FORMATION. 4. IGM PLAQUE INHIBITION.
J. THEORET. BIOL., V.52, P.419-40. 1975. (LA-UR-74-776)*
DE LISI, CHARLES P. (T-10)

5-90
KINETICS OF HEMOLYTIC PLAQUE FORMATION. 5. THE INFLUENCE OF GEOMETRY ON PLAQUE GROWTH.
J. MATH. BIOL., V.2, P.317-31. 1975.
DE LISI, CHARLES P. (T-10)

5-91
LACK OF SPECIFIC CORRELATION OF THE DEOXYCYTIDINE TRIPHOSPHATE POOL LEVEL WITH RATE OF DNA SYNTHESIS.
BIOCHIM. BIOPHYS. ACTA, V.414, P.221-30. 1975. (LA-UR-75-1175)*
WALTERS, RONALD A. (H-9)
RATLIFF, ROBERT L. (H-9)

5-92
LASER FLOW MICROPHOTOMETERS FOR RAPID ANALYSIS AND SORTING OF INDIVIDUAL MAMMALIAN CELLS.
LASER APPLICATIONS IN MEDICINE AND BIOLOGY, M. L. WOLBARSHT, ED. V.2, CHAP.5, P.151-204. PLENUM, 1974. (555:L343A V.2)
MULLANEY, PAUL F. (H-10)
STEINKAMP, JOHN A. (H-10)
CRISSMAN, HARRY A. (H-10)
CRAM, L. SCOTT (H-10)
HOLM, DALE M. (H-6)

5-93
LIGHT ION LINACS FOR MEDICAL APPLICATIONS.
IEEE TRANS. NUCL. SCI., V.NS-22, P.755-7. 1975.
ALSO PUBLISHED AS:
TIC, 1975. 4P. MN (LA-UR-75-453)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.208. 1975.
BRADBURY, JAMES N. (MP-3)
KNAPP, EDWARD A. (MP-3)
NAGLE, DARRAGH E. (MP-3)

5-94
LUNG RESPONSE TO LOCALIZED IRRADIATION FROM PLUTONIUM MICROSPHERES.
TIC, 1975. 6P. MN (LA-UR-75-1324)
ANDERSON, ERNEST C. (H-DO)
HOLLAND, LAURENCE M. (H-4)
PRINE, JAMES R. (H-4)
THOMAS, ROBERT G. (H-4)

5-95
MAMMALIAN CELLS: PROBES AND PROBLEMS. 1973. 1ST LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROCEEDINGS.
TIC, 1975. 309P. (CONF-731007)
RICHMOND, CHESTER R. (H-DO) ED.
PETERSEN, DONALD F. (H-9) ED.
MULLANEY, PAUL F. (H-10) ED.
ANDERSON, ERNEST C. (H-DO) ED.

5-96
MEASUREMENT OF PLUTONIUM IN HUMANS.
PLUTONIUM INFORMATION. 1974. MEETING FOR AN AD HOC SUBCOMMITTEE OF THE ADVISORY COMMITTEE ON REACTOR SAFEGUARDS, LOS ALAMOS, NM. PAPERS, P.79-86. TIC, 1974. (CONF-740115)
LAWRENCE, JAMES N. P. (H-1)

5-97
MEDICAL LINAC DESIGN POSSIBILITIES.
TIC, 1975. 10P. MN (LA-UR-74-1677)
ALSO PUBLISHED IN:
APPLICATION OF SMALL ACCELERATORS. 1974. 3RD CONFERENCE, DENTON, TX. PROC., V.II, INDUSTRIAL APPLICATIONS OF SMALL ACCELERATORS, P.304-52. TIC, 1975. (CONF-741040-P2)
KNAPP, EDWARD A. (MP-3)
BRADBURY, JAMES N. (MP-3)

5-98
MEDICAL RADIOISOTOPES FROM LAMPF: STRONTIUM -82 - RUBIDIUM -82 PRODUCTION, RECOVERY, AND BIOMEDICAL GENERATOR.
ABSTRACT PUBLISHED IN:
BULL. N. MEX. ACAD. SCI., V.15, NO.2, P.28. 1975.
GRANT, PATRICK M. (CNC-11)
OGARD, ALLEN E. (CNC-11)
ERDAL, BRUCE R. (CNC-11)
BARNES, JOHN W. (CNC-11)
O'BRIEN, HAROLD A., JR. (CNC-11)

5-99
MESON RADIOBIOLOGY AND THERAPY.
TIC, 1975. 8P. MN (LA-UR-75-1633)
KLIGERMAN, MORTON M. (ADRT)

5-100
METHOD FOR DETECTION OF TRICHINELLAE.
FILED 1974, PATENTED NOV. 11, 1975.
(U. S. PATENT 3,918,818)
GILES, PAUL M. (ENG-6)

5-101
MICRODOSIMETRY OF NEGATIVE PIONS AT LAMPF.
RADIOLOGY, V.116, P.183-5. 1975.
(LA-UR-75-32)*
AMOLS, HOWARD I. (MP-3)
DICELLO, JOHN F., JR. (MP-3)
LANE, THOMAS F. (MP-3)
PFEUFFER, GARY (MP-DO)
HELLAND, JEROME A. (MP-3)
KNOWLES, HARROLD B. (MP-3)

5-102
MODIFIED REPLICATE PLATING TECHNIQUE FOR USE IN SOMATIC CELL MUTANT SELECTION.
ABSTRACT PUBLISHED IN:
J. CELL BIOL., V.677, P.A176. 1975.
HOHMANN, LYNDA K. (H-9)
BARNHART, BENJAMIN J. (H-9)

5-103
MULTIPARAMETER CELL SORTING AND ANALYSIS.
TIC, 1973. 23P. MN (LA-UR-73-1594)
ALSO PUBLISHED IN:
MAMMALIAN CELLS: PROBES AND PROBLEMS. 1973. 1ST LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROC., P.61-75. TIC, 1975.
(CONF-731007)
STEINKAMP, JOHN A. (H-10)

5-104
MUMPS CODE BUILDING PACKAGE FOR DATA BASE MANAGEMENT.
LASL, 1975. 26P. (LA-6065-MS)
GOAD, CHRISTOPHER A. (H-10)

5-105
NETWORK THERMODYNAMICS: AN OVERVIEW.
BIOPHYS. J., V.15, P.667-85. 1975.
(LA-UR-75-124)*
PERELSON, ALAN S. (T-10)

5-106
NUCLEAR MAGNETIC RESONANCE OF ROTATIONAL MOBILITY OF MOUSE HEMOGLOBIN LABELED WITH (2- CARBON -13) HISTIDINE.
SCIENCE, V.188, P.266-8. 1975.
(LA-UR-74-1792)*
LONDON, ROBERT E. (CNC-4)
GREGG, CHARLES T. (H-11)
MATWIYOFF, NICHOLAS A. (CNC-4)

5-107
NUMERICAL STUDY OF PULSATILE FLOW THROUGH CONSTRICTED ARTERIES.
TIC, 1974. 9P. MN (LA-UR-74-932)
ALSO PUBLISHED IN:
NUMERICAL METHODS IN FLUID DYNAMICS. 1974. 4TH INTERNATIONAL CONFERENCE, BOULDER. PROC., LECTURE NOTES IN PHYSICS, V.35, P.117-24. SPRINGER-VERLAG, 1975. (532:N971M 4TH)
DALY, BART J. (T-3)

5-108
ON SIGNALS GENERATED BY THE BINDING OF MULTIVALENT ANTIGENS TO LYMPHOCYTES.
TIC, 1974. 47P. MN (LA-UR-73-1650)
ALSO PUBLISHED IN:
MAMMALIAN CELLS: PROBES AND PROBLEMS. 1973. 1ST LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROC., P.254-76. TIC, 1975.
(CONF-731007)
BELL, GEORGE I. (T-DOT)

5-109
PASSIVE ELECTRONIC IDENTIFICATION AND TEMPERATURE MONITORING SYSTEM, JULY 1, 1974 - JUNE 30, 1975.
LASL, 1975. 18P. (LA-6088-PR)
KOELLE, ALFRED R. (E-3)
BOBBETT, RONALD E. (E-3)
LANDT, JEREMY A. (E-DOR)
SANDERS, WILLIAM MORT (H-6)
HOLM, DALE M. (H-6)
DEPP, STEVEN W. (E-DO)

5-110
PHOTO INDUCED DNA PROTEIN ADDUCTS IN CHINESE HAMSTER OVARY CELL CHROMATIN.
ABSTRACT PUBLISHED IN:
J. CELL BIOL., V.67, P.A351. 1975.
RALL, STANLEY C. (H-9)
HARDIN, JULIA MARIE (H-9)
STRNISTE, GARY F. (H-9)

5-111
PHOTOSYNTHETIC STUDIES WITH A 10 PSEC RESOLUTION STREAK CAMERA.
BIOCHEM. BIOPHYS. RES. COMMUN., V.63, P.917-23. 1975. (LA-UR-75-8)*
KOLLMAN, VICTOR H. (H-11)
SHAPIRO, STANLEY L. (L-2)
CAMPILLO, ANTHONY J. (L-2)

5-112
PHYSICAL METHODS FOR RAPID ON-LINE DETECTION OF TRICHINELLA IN PORK.
TIC, 1973. 17P. MN (LA-DC-72-1466)
ALSO PUBLISHED IN:
TRICHINELLOSIS. 1972. 3RD INTERNATIONAL CONFERENCE, MIAMI BEACH. PROC., P.579-95. INTEXT, 1974.
(616.96:T823RI 3RD)
SEAGRAVE, JOHN D. (P-DOR)
HOLM, DALE M. (H-6)

5-113
PIONS AND HEAVY IONS IN RADIOTHERAPY: A BRIEF REVIEW.
TIC, 1975. 12P. MN (LA-UR-74-1530)
ALSO PUBLISHED IN:
EXCERPTA MED. INT. CONGR. SER., NO. 353, V.5, P.161-7. 1975.
(616.99:I61C 11TH V.5)
(LA-UR-74-1530)*
RAJU, MUDUNDI R. (H-10)

5-114
PLUTONIUM AND OTHER ACTINIDE ELEMENTS IN GONADAL TISSUE OF MAN AND ANIMALS.
HEALTH PHYS., V.29, P.241-50. 1975.
(LA-UR-74-1314)*
RICHMOND, CHESTER R. (H-DO)
THOMAS, RANDI L. (H-DO)

5-115
PLUTONIUM: HEALTH IMPLICATIONS FOR MAN.
1974. 2ND LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROCEEDINGS.
HEALTH PHYS., V.29, P.441-638. 1975.
(614:L879L 1974)
HEALY, JOHN W. (H-DO) ED.

5-116
POPULATION ANALYSIS OF ARRESTED HUMAN DIPLOID FIBROBLASTS BY FLOW MICROFLUOROMETRY.
EXP. CELL RES., V.92, P.271-4. 1975.
DELL'ORCO, ROBERT T.
CRISSMAN, HARRY A. (H-10)
STEINKAMP, JOHN A. (H-10)
KRAEMER, PAUL M. (H-9)

5-117
POTENTIAL SENSING CELL ANALYZER.
FILED 1973, PATENTED DEC. 2, 1975.
(U. S. PATENT 3,924,180)
SALZMAN, GARY C. (H-10)
COULTER, JAMES ROSS (SD-5)
MULLANEY, PAUL F. (H-10)
HIEBERT, RICHARD D. (E-3)

5-118
PREPARATIVE METHODS FOR ANALYSIS OF DNA, PROTEIN AND NUCLEAR - TO - CYTOPLASMIC RATIOS IN NORMAL AND TUMOR CELL POPULATIONS.
TIC, 1975. 31P. MN (LA-UR-74-1393)
ALSO PUBLISHED IN:
PULSE-CYTOPHOTOMETRY. 1974. 1ST INTERNATIONAL SYMPOSIUM, NIJMEGEN. PROC., P.22-35, EUROPEAN PRESS, 1975.
(610.8:P982C)
CRISSMAN, HARRY A. (H-10)
STEINKAMP, JOHN A. (H-10)

5-119
PROCEDURE FOR THE RAPID LYSIS OF MAMMALIAN CELLS PRIOR TO ALKALINE SUCROSE DENSITY GRADIENT CENTRIFUGATION.
BIOCHIM. BIOPHYS. ACTA, V.407, P.120-4. 1975. (LA-UR-75-1062)*
WALTERS, RONALD A. (H-9)
HILDEBRAND, CARL E. (H-9)

5-120
QUANTITATIVE MEASUREMENT OF SV40 T - ANTIGEN PRODUCTION.
EXP. CELL RES., V.91, P.247-52. 1975.
(LA-UR-74-722)*
HORAN, MARY (H-6)
HORAN, PAUL K. (H-10)
WILLIAMS, CURTIS A.

5-121
RADIOLOGICAL HEALTH IN INDUSTRIAL MEDICAL PRACTICE.
OCCUPATIONAL MEDICINE; PRINCIPLES AND PRACTICAL APPLICATIONS, C. ZENZ, ED. CH.22, P.499-551. YEAR BOOK MEDICAL PUBLISHERS, 1975. (614.85:Z560)
VOELZ, GEORGE L. (H-DO)

5-122
RAPID DIGESTION PROCESS FOR DETERMINATION OF TRICHINELLAE IN MEAT.
FILED 1974, PATENTED JUL. 1, 1975.
(U. S. PATENT 3,892,529)
GILES, PAUL M. (H-6)

5-123
RAPID DISEASE SCREENING WITH ENZYME LABELED ANTIBODIES.
TIC, 1975. 9P. MN (LA-UR-75-972)
SAUNDERS, GEORGE C. (H-6)
CLINARD, ELVA H. (H-6)
BARTLETT, MARY L. (H-6)

5-124
RATE OF DNA SYNTHESIS DURING S PHASE BY MAMMALIAN CELLS IN VITRO.
PULSE-CYTOPHOTOMETRY. 1974. 1ST INTERNATIONAL SYMPOSIUM, NIJMEGEN. PROC., P.77-86. EUROPEAN PRESS, 1975.
(610.8:P982C)
DEAN, PHILLIP N.
ANDERSON, ERNEST C. (H-DOT)

5-125
RECOVERY RATE AND RESIDUAL INJURY IN MONKEYS EXPOSED TO LARGE DOSES OF RADIATION BY FRACTIONATION.
RADIAT. RES., V.62, P.70-8. 1975.
(LA-UR-73-1153)*
SPALDING, JOHN F. (H-4)
HOLLAND, LAURENCE M. (H-4)
LA BAUVE, PATRICIA M. (H-4)
LONDON, JERRY E. (H-4)
PRINE, JAMES R. (H-4)

5-126
REGULATION OF ADENYLATE CYCLASE ACTIVITY BY CELL SURFACE HYALURONATE IN HUMAN LIMB MESENCHYMAL CELLS IN VITRO.
ABSTRACT PUBLISHED IN:
J. CELL BIOL., V.63, P.164A. 1974.
KELLEY, ROBERT O.
PALMER, GENE C.
CRISSMAN, HARRY A. (H-10)

5-127
RELATIONSHIP OF HISTONE PHOSPHORYLATION TO THE CHROMOSOME CYCLE.
ABSTRACT PUBLISHED IN:
FED. PROC., FED. AM. SOC. EXP. BIOL., V.34, P.858. 1975.
GURLEY, LAWRENCE R. (H-9)
TOBEY, ROBERT A. (H-9)
WALTERS, RONALD A. (H-9)
HILDEBRAND, CARL E. (H-9)

5-128
RETENTION AND EXCRETION OF COBALT -60 IN MICE, RATS, MONKEYS, AND DOGS.
ABSTRACT PUBLISHED IN:
HEALTH PHYS., V.29, P.900-1. 1975.
THOMAS, ROBERT G. (H-4)
RICHMOND, CHESTER R. (H-DO)
FURCHNER, JOHN E. (H-4)
LONDON, JERRY E. (H-4)
DRAKE, GLESSIE A. (H-4)
WILSON, JULIE S. (H-4)

5-129
RNA SYNTHESIS IN CHINESE HAMSTER CELLS. 3. NON-COORDINATE INCREASES DURING INTERPHASE IN SYNTHESIS RATES FOR INFORMOSOMAL, POLYSOMAL, AND HETEROGENEOUS NUCLEAR RNAS.
BIOCHIM. BIOPHYS. ACTA, V.390, P.182-91. 1975. (LA-UR-74-1650)*
ENGER, M. DUANE (H-9)
CAMPBELL, EVELYN W. (H-9)

5-130
SEQUENTIAL BIOCHEMICAL EVENTS IN PREPARATION FOR DNA REPLICATION AND MITOSIS.
TIC, 1973. 39P. MN (LA-UR-73-676)
ALSO PUBLISHED IN:
MAMMALIAN CELLS: PROBES AND PROBLEMS. 1973. 1ST LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROC., P.152-67. TIC, 1975. (CONF-731007)
TOBEY, ROBERT A. (H-9)
GURLEY, LAWRENCE R. (H-9)
HILDEBRAND, CARL E. (H-9)
RATLIFF, ROBERT L. (H-9)
WALTERS, RONALD A. (H-9)

5-131
SEQUENTIAL PHOSPHORYLATION OF HISTONE SUBFRACTIONS IN THE CHINESE HAMSTER CELL CYCLE.
J. BIOL. CHEM., V.250, P.3936-44. 1975. (LA-UR-74-1610)*
GURLEY, LAWRENCE R. (H-9)
WALTERS, RONALD A. (H-9)
TOBEY, ROBERT A. (H-9)

5-132
SEROLOGIC TEST DEVELOPMENT, JULY 1, 1974 - JUNE 30, 1975.
LASL, 1975. 16P. (LA-6183-PR)
SAUNDERS, GEORGE C. (H-6)
CLINARD, ELVA H. (H-6)
SANDERS, WILLIAM MORT (H-6)
BARTLETT, MARY L. (H-6)
PAYNE, ROBERT J. (H-6)

5-133
SEROLOGIC TESTING WITH ENZYME LABELED ANTIBODIES (ELA).
TIC, 1975. 12P. MN (LA-UR-74-1526)
ALSO PUBLISHED IN:
AMERICAN ASSOCIATION OF VETERINARY LABORATORY DIAGNOSTICIANS. 1974. 17TH ANNUAL MEETING, ROANOKE, VA. PROC., P.311-20. THE ASSOCIATION, 1975.**
(LA-UR-74-1526)*
SAUNDERS, GEORGE C. (H-6)

5-134
SOME OBSERVATIONS ON THE COMPARATIVE EFFECTS OF INBREEDING AND WHOLE BODY X RAY EXPOSURE TO SEVENTY GENERATIONS OF MICE.
LASL, 1975. 4P. (LA-5866-MS)
SPALDING, JOHN F. (H-4)
BROOKS, MARY R. (H-4)
JOHNSON, OGDEN S. (H-4)

5-135
SPALLATION CROSS SECTIONS AND THE LAMPF MEDICAL RADIOISOTOPE PROGRAM.
TIC, 1975. 5P. MN (LA-UR-75-359)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.155-6. 1975.
ERDAL, BRUCE R. (CNC-11)
GRANT, PATRICK M. (CNC-11)
CASELLA, VITO R. (CNC-11)
OGARD, ALLEN E. (CNC-11)
O'BRIEN, HAROLD A., JR. (CNC-11)

5-136
SPATIAL DISTRIBUTION OF EFFECTS OF NEGATIVE PIONS ON CULTURED HUMAN CELLS.
RADIOLOGY, V.116, P.179. 1975.
TODD, PAUL (H-10)
SHONK, CARL R.
WEST, GARY
KLIGERMAN, MORTON M. (ADRT)
DICELLO, JOHN F., JR. (MP-3)

5-137
STABLE ISOTOPE TECHNOLOGY AND ABNORMAL MAMMALIAN EMBRYONIC DEVELOPMENT.
TIC, 1975. 24P. MN (LA-UR-75-1431)
GREGG, CHARLES T. (H-11)

5-138
STRONTIUM -82 - RUBIDIUM -82 ISOTOPE GENERATOR FOR USE IN NUCLEAR MEDICINE.
J. NUCL. MED., V.16, P.300-4. 1975. (LA-UR-74-1330)*
GRANT, PATRICK M. (CNC-11)
ERDAL, BRUCE R. (CNC-11)
O'BRIEN, HAROLD A., JR. (CNC-11)

5-139
SURVIVAL OF CULTURED MAMMALIAN CELLS IRRADIATED AT VARIOUS DEPTHS IN THE LAMPF NEGATIVE PION THERAPY BEAM.
LASL, 1975. 4P. (LA-6049-MS)
TODD, PAUL (H-10)
DICELLO, JOHN F., JR. (MP-3)
WEST, GARY
SHONK, CARL R.
KLIGERMAN, MORTON M. (ADRT)
RAJU, MUDUNDI R. (H-10)

5-140
TEMPORAL STRUCTURE OF S PHASE.
CELL, V.5, P.195-203. 1975.
KLEVECZ, ROBERT R.
KENISTON, BEVERLY A.
DEAVEN, LARRY L. (H-9)

5-141
TRANSFER OF MOUSE IGG2 PRODUCTION BY IGM BEARING SPLEEN CELLS SEPARATED BY A FLUORESCENCE ACTIVATED CELL SORTER.
ABSTRACT PUBLISHED IN:
FED. PROC., V.34, P.945. 1975.
BANKHURST, ARTHUR D.
ANDERSON, ROBERT E.
CRAM, L. SCOTT (H-10)
HORAN, PAUL K. (H-10)
WARNER, NOEL L.

5-142
TUNING OF THE BIOMEDICAL CHANNEL AT LAMPF.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.196. 1975.
PACIOTTI, MICHAEL A. (MP-3)
BRADBURY, JAMES N. (MP-3)
HELLAND, JEROME A. (MP-3)
HUTSON, RICHARD L. (MP-3)
KNAPP, EDWARD A. (MP-3)
RIVERA, OLIVER M. (MP-3)
KNOWLES, HARROLD B. (MP-3)
PFEUFFER, GARY (MP-DO)

5-143
TUNING OF THE FIRST SECTION OF THE
BIOMEDICAL CHANNEL AT LAMPF.
TIC, 1975. 6P. MN (LA-UR-75-447)
ALSO PUBLISHED IN:
IEEE TRANS. NUCL. SCI., V.NS-22,
P.1784-9, 1975.
PACIOTTI, MICHAEL A. (MP-3)
BRADBURY, JAMES N. (MP-3)
HELLAND, JEROME A. (MP-3)
ET AL

5-144
UNIQUE TECHNIQUES FOR CELL CYCLE ANALYSIS
UTILIZING MITHRAMYCIN AND FLOW
MICROFLUOROMETRY.
EXP. CELL RES., V.93, P.235-9, 1975.
(LA-UR-74-1774)*
TOBEY, ROBERT A. (H-9)
CRISSMAN, HARRY A. (H-10)

5-145
URANIUM IN THE TISSUE OF OCCUPATIONALLY
EXPOSED WORKERS.
TIC, 1976. 32P. MN (LA-UR-75-1610)
ALSO PUBLISHED IN:
OCCUPATIONAL HEALTH EXPERIENCE WITH
URANIUM, 1975. CONFERENCE, ARLINGTON,
VA. PAPERS, P.323-50. ERDA, 1975.
(ERDA-93)
CAMPBELL, EVAN E. (H-5)
MC INROY, JAMES F. (H-5)
SCHULTE, HARRY F. (H-5)

5-146
USE OF MESONS FOR TISSUE CHEMICAL
ANALYSIS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20,
P.196, 1975.
REIDY, JAMES J.
HUTSON, RICHARD L. (MP-3)

5-147
WHAT WE HAVE LEARNED ABOUT PLUTONIUM FROM
HUMAN DATA.
HEALTH PHYS., V.29, P.551-61, 1975.
(LA-UR-75-4)*
VOELZ, GEORGE L. (H-DO)

6. CHEMICAL DYNAMICS AND KINETICS

6-1
ABSTRACTION VERSUS EXCHANGE IN THE REACTION OF HYDROGEN WITH DEUTERIUM BROMIDE.
J. CHEM. PHYS., V.62, P.1435-43. 1975.
(LA-UR-74-1685)*
SU, H. Y.
WHITE, JOHN MICHAEL (CNC-4)
RAFF, LIONEL M. (CNC-4)
THOMPSON, DONALD L. (CNC-4)

6-2
CHEMICAL REACTION DYNAMICS. PART 2. REACTION NETWORKS.
ARCH. RATION. MECH. ANAL., V.57, P.31-98. 1974. (LA-UR-74-1094)*
PERELSON, ALAN S. (T-10)
OSTER, GEORGE F.

6-3
CHEMISTRY COMPUTATIONS FOR IRRADIATED HOT AIR.
LASL, 1975. 58P. (LA-6055-MS)
SUTHERLAND, C. DEXTER (J-10)
ZINN, JOHN (J-10)

6-4
COMPARISON OF THE COMBINED PHASE SPACE TRAJECTORY AND QUASICLASSICAL TRAJECTORY METHODS IN THE STUDY OF REACTION DYANMICS: HYDROGEN + IODINE(2) AND HYDROGEN + BROMINE(2).
J. CHEM. PHYS., V.62, P.2429-45. 1975. (LA-UR-74-1652)*
PORTER, RICHARD N. (CNC-4)
THOMPSON, DONALD L. (CNC-4)
RAFF, LIONEL M. (CNC-4)
WHITE, JOHN MICHAEL (CNC-4)

6-5
DEPENDENCE OF THE SECOND EXPLOSION LIMITS OF HYDROGEN - FLUORINE - OXYGEN - HYDROGEN FLUORIDE MIXTURES ON A HOT ATOM EFFECT.
J. PHYS. CHEM., V.79, P.1045-50. 1975.
(LA-UR-74-1538)*
SULLIVAN, JOHN H. (CNC-4)

6-6
DISSOCIATIVE EXCITATION CHANNELS IN THE INTERACTION OF ARGON(3-P-0,2) AND HELIUM (2-3-S) METASTABLE ATOMS WITH METHANE, ETHYLENE, ACETYLENE, AND BENZENE.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.169, PAPER NO.PHYS-18. 1975.
TAYLOR, GENE W. (WX-2)
SETSER, DONALD W.

6-7
EFFECT OF REAGENT VIBRATIONAL ENERGY ON MEASURED REACTION RATE CONSTANTS.
J. PHOTOCHEM., V.4, P.269-80. 1975.
(LA-UR-74-1918)*
BIRELY, JOHN H. (L-8)
LYMAN, JOHN L. (L-8)

6-8
FAST MOLECULAR TRAJECTORY CALCULATIONS BY HYBRID COMPUTATION: A FEASIBILITY STUDY.
TIC, 1975. 14P. MN (LA-UR 75-411)
SPRINGER, THOMAS E. (E-4)
FORD, WENDELL (E-5)

6-9
FLUORINE - HYDROGEN EXPLOSION AND ITS POSSIBLE UTILIZATION IN LARGE CHEMICAL LASERS.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.169, PAPER NO.PHYS-44. 1975.
SULLIVAN, JOHN H. (CNC-2)
FEBER, ROY C., JR. (CMB-8)

6-10
MASS SPECTRAL INTENSITIES OF INORGANIC FLUORINE CONTAINING COMPOUNDS.
APPL. SPECTROSC., V.29, P.334-7. 1975.
(LA-UR-74-1910)*
BEATTIE, WILLARD H. (L-3)

6-11
MECHANISM AND TYPES OF EXPLOSIVE BEHAVIOR IN HYDROGEN - FLUORINE SYSTEMS.
J. CHEM. PHYS., V.62, P.1714-25. 1975.
(LA-UR-74-867)*
SULLIVAN, JOHN H. (CNC-4)
FEBER, ROY C., JR. (CMB-8)
STARNER, JOHN W., JR. (CMB-8)

6-12
ON THE THERMAL RATE COEFFICIENT AND ACTIVATION ENERGY OF THE IODINE + IODINE(2) ATOM EXCHANGE REACTION.
J. CHEM. PHYS., V.62, P.4241-2. 1975.
(LA-UR-74-1920)*
THOMPSON, DONALD L. (CNC-4)

6-13
PARADOX: THE THERMAL RATE COEFFICIENT FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION.
J. CHEM. PHYS., V.62, P.4727-39. 1975.
(LA-UR-74-854)*
THOMPSON, DONALD L. (CNC-4)
SUZUKAWA, HENRY H., JR. (CNC-4)
RAFF, LIONEL M. (CNC-4)

6-14
QUASICLASSICAL TRAJECTORY STUDY OF THE HYDROGEN(2) + FLUORINE(2) REACTIONS.
J. CHEM. PHYS., V.62, P.4284-99. 1975.
(LA-UR-74-1047)*
THOMPSON, DONALD L. (CNC-4)
MC LAUGHLIN, DONALD R. (CNC-4)

6-15
QUASICLASSICAL TRAJECTORY STUDY OF THE MOLECULAR BEAM KINETICS OF THE DEUTERIUM ATOM - HYDROGEN HALIDE EXCHANGE REACTION.
J. CHEM. PHYS., V.62, P.3743-6. 1975.
(LA-UR-74-1264)*
RAFF, LIONEL M. (CNC-4)
SUZUKAWA, HENRY H., JR. (CNC-4)
THOMPSON, DONALD L. (CNC-4)

6-16
SYSTEMATIC AND GRAPHICAL METHOD FOR GENERATING THE KINETIC EQUATIONS GOVERNING THE GROWTH OF AGGREGATES.
J. CHEM. PHYS., V.62, P.4053-61. 1975.
(LA-UR-74-1962)*
PERELSON, ALAN S. (T-10)
DE LISI, CHARLES P. (T-10)

7. CHEMISTRY

7-1
CARBON DISULFIDE INSERTION REACTIONS WITH COPPER(I) MERCAPTIDE COMPLEXES.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS. V.169, PAPER NO.INOR-30. 1975.
ELLER, P. GARY (CNC-4)
RYAN, ROBERT R. (CNC-4)

7-2
CHEMICAL EQUILIBRIA IN HOT AIR WITH MOISTURE, SALT, AND VAPORIZED METAL CONTAMINANTS.
LASL, 1975. 28P. (LA-5850-MS)
ZINN, JOHN (J-10)
SUTHERLAND, C. DEXTER (J-10)

7-3
CHEMISTRY OF PLUTONIUM IN RELATION TO ITS BEHAVIOR IN BIOLOGICAL AND ENVIRONMENTAL SYSTEMS.
PLUTONIUM INFORMATION. 1974. MEETING FOR AN AD HOC SUBCOMMITTEE OF THE ADVISORY COMMITTEE ON REACTOR SAFEGUARDS, LOS ALAMOS, NM. PAPERS. P.2-7. TIC, 1974. (CONF-740115)
MATLACK, GEORGE M. (CMB-1)

7-4
DI-MU-(PYRIDINE OXIDE)- BIS(DICHLORO (DIMETHYL SULFOXIDE)COPPER(II)).
ACTA CRYST., V.B31, P.2362-4. 1975.
WILLIAMS, R J.
WATSON, W. H.
LARSON, ALLEN C. (CNC-4)

7-5
EMF'S ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM: BARE ELECTRODE EFFECTS, USE OF N UNEQUAL TO 2, PREMONITORY PHENOMENA AND LIQUID STRUCTURE IN GOLD - CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS.
J. ELECTROCHEM. SOC., V.122, P.905-14. 1975. (LA-UR-73-1057)*
WANG, DAVID NIN-KOU
ELLIOTT, GUY R. B. (CNC-2)
PITT, CHARLES

7-6
ENTHALPY OF FORMATION OF HAFNIUM DIOXIDE.
J. CHEM. THERMODYN., V.7, P.21-6. 1975. (LA-UR-74-372)*
KORNILOV, A. N.
USHAKOVA, I. M.
HUBER, ELMER J., JR. (CNC-2)
HOLLEY, CHARLES E., JR. (CNC-2)

7-7
FOURIER TRANSFORM CARBON -13 MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 2. LIGAND SUBSTITUTION PROCESSES.
INORG. CHEM., V.14, P.2774-9. 1975. (LA-UR-75-1014)*
FUENTES, RICARDO (CNC-4)
MORGAN, LEON O. (CNC-4)
MATWIYOFF, NICHOLAS A. (CNC-4)

7-8
FUNDAMENTAL ASPECTS OF SYSTEMS FOR THE THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER.
NUCLEAR PROCESS HEAT APPLICATIONS. 1974. 1ST NATIONAL TOPICAL MEETING, LOS ALAMOS, NM. PROC., P.251-60. LASL, 1974. (CONF-741032) (LA-5795-C)
ALSO PUBLISHED AS:
TIC, 1975. 11P. MN (LA-UR-74-1459)
BOWMAN, MELVIN G. (CMB-DO)

7-9
HYDRATION ENERGIES AND SPECIFIC INFLUENCE OF OXO COMPLEXES AND HIGH COORDINATION NUMBERS ON THE PREDICTED CHEMISTRY OF SUPERHEAVY ELEMENTS.
TIC, 1975. 6P. MN (LA-UR-75-1402)
JORGENSEN, CHRISTIAN K.
PENNEMAN, ROBERT A. (CNC-4)

7-10
KINETICS OF THE OXIDATION - REDUCTION REACTIONS OF URANIUM, NEPTUNIUM, PLUTONIUM AND AMERICIUM IN AQUEOUS SOLUTIONS.
TIC, 1975. 131P. (TID-26506)
NEWTON, THOMAS W. (CNC-2)

7-11
KINETICS OF THE REACTION BETWEEN PLUTONIUM(III) AND CHROMIUM(VI) IN AQUEOUS PERCHLORATE SOLUTIONS.
INORG. CHEM., V.14, P.2394-9. 1975. (LA-UR-75-356)*
NEWTON, THOMAS W. (CNC-2)

7-12
LOS ALAMOS PROJECT HANDBOOK: CHEMISTRY OF PLUTONIUM.
LASL, 1943. DECLASSIFIED 1971. 200P. (LA-30)
DUFFIELD, ROBERT B.
ET AL

7-13
PROBLEMS AND POTENTIALITIES OF STABLE ISOTOPES AS TRACERS FOR STUDYING POLLUTANT BEHAVIOR UNDER FIELD CONDITIONS.
TIC, 1975. 26P. MN (LA-UR-74-1643)
MATWIYOFF, NICHOLAS A. (CNC-4)
COWAN, GEORGE A. (CNC-DO)
OTT, DONALD G. (H-11)
MC INTEER, BERTHUS B. (CNC-4)

7-14
QUANTITATIVE SEPARATION OF AMERICIUM AND PLUTONIUM USING CUPFERRON.
LASL, 1950. DECLASSIFIED 1971. 11P.
(LA-1079)
NIGON, J. P.
PENNEMAN, ROBERT A.

7-15
RECOVERY OF SPALLOGENIC, CARRIER FREE YTTRIUM -88 FOR RADIOISOTOPIC PHOTONEUTRON SOURCES.
RADIOCHIM. ACTA, V.22, P.31-4. 1975.
CASELLA, VITO R. (CNC-11)
GRANT, PATRICK M. (CNC-11)
O'BRIEN, HAROLD A., JR. (CNC-11)

7-16
REDUCTIVE SYNTHESES OF TRANSITION METAL FLUORIDE COMPOUNDS. THE SYNTHESIS OF RHENIUM, OSMIUM AND IRIDIUM PENTAFLUORIDES AND TETRAFLUORIDES.
INORG. CHEM., V.14, P.1111-3. 1975.
(LA-UR-74-1130)*
PAINE, ROBERT T., JR. (CNC-4)
ASPREY, LARNED B. (CNC-4)

7-17
REVERSIBLE SULFUR DIOXIDE ADDITION TO COPPER(I) PHOSPHINE COMPLEXES.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.169, PAPER NO.INOR-29. 1975.
KUBAS, GREGORY J. (CNC-4)
ELLER, P. GARY (CNC-4)
PENNEMAN, ROBERT A. (CNC-4)

7-18
SYNTHESES WITH STABLE ISOTOPES: SODIUM CYANIDE - CARBON -13.
J. LABELLED COMPD., V.11, P.307-12.
1975. (LA-UR-74-1773)*
WHALEY, THOMAS W. (H-11)
OTT, DONALD G. (H-11)

7-19
SYNTHESES WITH STABLE ISOTOPES: UREA (CARBON -13), UREA (CARBON -12), AND UREA (CARBON -13,NITROGEN -15).
J. LABELLED COMPD., V.11, P.167-70.
1975. (LA-UR-74-1497)*
WHALEY, THOMAS W. (H-11)
OTT, DONALD G. (H-11)

7-20
SYNTHESIS OF CYCLOPENTADIENYL-X CARBON -13 THALLIUM.
J. LABELLED COMP., V.11, P.325-332.
1975. (LA-UR-74-1896)*
LARSEN, SAMUEL D. (CNC-4)
VERGAMINI, PHILLIP J. (CNC-4)
WHALEY, THOMAS W. (H-11)

7-21
SYNTHESIS OF PENTAFLUORIDES.
FILED 1974, PATENTED DEC. 30, 1975.
(U. S. PATENT 3,929,601)
ASPREY, LARNED B. (CNC-3)
PAINE, ROBERT T., JR. (CNC-4)

7-22
SYSTEM FOR STUDYING THE INITIAL STAGES OF GAS - METAL REACTIONS.
TIC, 1975. 11P. MN (LA-UR-75-1628)
ABSTRACT PUBLISHED IN:
J. VAC. SCI. TECHNOL., V.13, P.552.
1976.
ANDREWS, GEORGE H., JR. (CMB-3)
ALIRE, RICHARD M. (CMB-3)
CZANDERNA, A. W.

7-23
THERMODYNAMIC PROPERTIES OF THE BINARY LAVES PHASE COMPOUNDS OF PLUTONIUM WITH THE GROUP VIIIA METALS.
TIC, 1975. 10P. MN (LA-UR-75-1258)
CAMPBELL, GEORGE M. (CMB-11)

7-24
TIME DEPENDENT SOLUTION TO INTERSTITIAL DIFFUSION IN A TEMPERATURE GRADIENT.
NUCL. TECHNOL., V.25, P.124-37. 1975.
(LA-UR-73-1771)*
LEE, CLARENCE E. (TD-1)
WALLACE, TERRY C. (CMB-3)

8. CRYOGENICS

8-1
10 KA, 300 KJ MAGNETIC ENERGY TRANSFER AND STORAGE (METS) TEST FACILITY.
TIC, 1975. 5P. MN (LA-UR-74-1434)
ALSO PUBLISHED IN:
IEEE TRANS. MAGN., V.MAG-11, P.504-7.
1975. (LA-UR-74-1434)*
SWANNACK, CLARKE E. (CTR-9)
BLEVINS, DAVID J. (CTR-9)
HARDER, CARROLL R. (CTR-9)
LINDSAY, JAMES D. G. (CTR-9)
ROGERS, JOHN D., JR. (CTR-9)
WELDON, DAVID M. (CTR-9)

8-2
100 MJ SUPERCONDUCTING MAGNETIC ENERGY STORAGE SYSTEM.
LASL, 1975. 15P. (LA-5882-MS)
HASSENZAHL, WILLIAM V. (Q-26)
BARTLIT, JOHN R. (Q-26)
ET AL

8-3
ADJACENT CONDUCTOR FIELD CORRECTIONS TO HIGH CRITICAL CURRENT SHORT SAMPLE MEASUREMENTS.
TIC, 1975. 5P. MN (LA-UR-74-1413)
ALSO PUBLISHED IN:
IEEE TRANS. MAGN., V.MAG-11, P.582-5.
1975. (LA-UR-74-1413)*
MIRANDA, GILBERT A. (CTR-9)
ROGERS, JOHN D., JR. (CTR-9)

8-4
ANOMALOUS THERMAL PROPERTY BEHAVIOUR OF URANIUM AT LOW TEMPERATURES.
TIC, 1975. 13P. MN (LA-UR-75-1347)
SANDENAW, THOMAS A. (CMB-8)

8-5
APPLICATIONS OF SUPERCONDUCTIVITY TO ELECTRIC POWER SYSTEMS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.66. 1975.
KELLER, WILLIAM E. (Q-26)

8-6
BULK SUPERCONDUCTIVITY ABOVE 20 DEGREES KELVIN IN NIOBIUM(3)GERMANIUM.
TIC, 1975. 5P. MN (LA-UR-74-1487)
ALSO PUBLISHED IN:
IEEE TRANS. MAGN., V.MAG-11, P.221-4.
1975. (LA-UR-74-1487)*
NEWKIRK, LAWRENCE R. (CMB-3)
VALENCIA, FLAVIO A. (CMB-3)
GIORGI, ANGELO L. (CMB-3)
SZKLARZ, EUGENE G. (CMB-3)
WALLACE, TERRY C. (CMB-3)

8-7
CONVERSION OF PARA TO ORTHOHYDROGEN IN A GAMMA RAY AND NEUTRON RADIATION FIELD.
CRYOGENICS, V.15, P.12-6. 1975.
CONANT, JOHN W. (WX-7)
EDESKUTY, FREDERICK J. (Q-26)
HUSTON, J. E.
THOME, F. V.

8-8
CRITICAL CURRENT DENSITIES IN NIOBIUM(3) GERMANIUM BETWEEN 14 AND 21 DEGREES KELVIN.
TIC, 1975. 4P. MN (LA-UR-74-1472)
ALSO PUBLISHED IN:
IEEE TRANS. MAGN., V.MAG-11, P.405-7.
1975. (LA-UR-74-1472)*
BARTLETT, ROGER J. (Q-26)
LAQUER, HENRY L. (Q-26)
TAYLOR, R. DEAN (Q-26)

8-9
CRYOGENICS; THE UNCOMMON COLD.
DTIE, 1967. 59P. (116:L317C)
LAQUER, HENRY L. (CMF-9)

8-10
DESIGN AND PERFORMANCE OF TWO 10 KA SUPERCONDUCTING SWITCHES.
TIC, 1975. 21P. MN (LA-UR-75-865)
BLEVINS, DAVID J. (CTR-9)
LINDSAY, JAMES D. G. (CTR-9)

8-11
DESIGN OF A FORCE FREE INDUCTIVE STORAGE COIL.
LASL, 1975. 9P. (LA-5953-MS)
MAWARDI, OSMAN K. (Q-26)

8-12
DEVELOPMENT OF A SUPERCONDUCTING SWITCH FOR MAGNETIC ENERGY STORAGE SYSTEMS.
TIC, 1975. 5P. MN (LA-UR-74-1429)
ALSO PUBLISHED IN:
IEEE TRANS. MAGN., V.MAG-11, P.594-7.
1975.
LINDSAY, JAMES D. G. (CTR-9)
BLEVINS, DAVID J. (CTR-9)
LAQUER, HENRY L. (Q-26)
MIRANDA, GILBERT A. (CTR-9)
ROGERS, JOHN D., JR. (CTR-9)
SWANNACK, CLARKE E. (CTR-9)
WELDON, DAVID M. (CTR-9)

8-13
DIRECTIONAL EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.293. 1975.
OVERTON, WILLIAM C., JR. (Q-26)
SCHUCH, ADAM F. (Q-26)
WEINSTOCK, H.

8-14
ECONOMIC AND SYSTEM ASPECTS OF A SUPERCONDUCTING MAGNETIC ENERGY STORAGE DEVICE AND A DC SUPERCONDUCTING TRANSMISSION LINE.
TIC, 1975. 2P. MN (LA-UR-74-1145)
MC DONALD, THOMAS E. (CTR-4)
HASSENZAHL, WILLIAM V. (Q-26)

8-15
ELECTRICAL BREAKDOWN AND TRACKING CHARACTERISTICS OF PULSED HIGH VOLTAGES IN CRYOGENIC HELIUM AND NITROGEN.
TIC, 1975. 16P. MN (LA-UR-75-1032)
HAARMAN, ROY A. (CTR-4)
WILLIAMSON, KENNETH D., JR. (CTR-9)

8-16
EVALUATION OF PRE-IMPREGNATED RESIN - GLASS SYSTEMS FOR INSULATING SUPERCONDUCTING MAGNETS.
TIC, 1975. 14P. MN (LA-UR-75-1099)
SCHERMER, ROBERT I. (Q-26)

8-17
EXPLANATION OF AN OBSERVED DIRECTION DEPENDENT SUPERFLUID FLOW.
PHYS. REV., V.B11, P.4721-4. 1975.
(LA-UR-75-283)*
CAMPBELL, LAURENCE J. (Q-26)

8-18
FORCED CONVECTION HEAT TRANSFER WITH TWO PHASE FLOW.
HEAT TRANSFER AT LOW TEMPERATURES, W. FROST, ED. CH.12, P.261-78. PLENUM. 1974. (536:F939H) (LA-DC-11696)*
WILLIAMSON, KENNETH D., JR. (CMF-9)
EDESKUTY, FREDERICK J. (CMF-9)

8-19
INTRINSIC DISSIPATION AND THINNING IN FILM FLOW.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.699. 1975.
CAMPBELL, LAURENCE J. (Q-26)

8-20
INVESTIGATION OF THE SOURCES OF ASYMMETRY EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT IN TYPE II TANTALUM WIRES.
LOW TEMPERATURE PHYSICS. 1975. 14TH INTERNATIONAL CONFERENCE, OTANIEMI, FINLAND. PROC., V.2, SUPERCONDUCTIVITY, P.145-8. AMERICAN ELSEVIER, 1975. (536:I61 14TH V.2)
ALSO PUBLISHED AS:
TIC, 1975. 5P. MN (LA-UR-75-751)
OVERTON, WILLIAM C., JR. (Q-26)

8-21
INVESTIGATIONS ON POTENTIAL CONDUCTORS FOR A DC SUPERCONDUCTING POWER TRANSMISSION LINE IN A 20 METER TEST BED.
TIC, 1975. 5P. (LA-UR-74-1443)
ALSO PUBLISHED IN:
IEEE TRANS. MAGN., V.MAG-11, P.385-8. 1975. (LA-UR-74-1443)*
HOFFER, JAMES K. (Q-26)

8-22
IS SOLID HELIUM -3 A HEISENBERG ANTIFERROMAGNET?
PHYS. REV., V.B12, P.297-302. 1975. (LA-UR-74-1521)*
JOHNSON, JAMES D. (T-DOT)
COHEN, E. G. D.

8-23
LASL NIOBIUM(3)GERMANIUM CONDUCTOR DEVELOPMENT, AUGUST 1 - OCTOBER 31, 1975.
LASL, 1975. 5P. (LA-6182-PR)
KELLER, WILLIAM E. (Q-26) COMP.
TAYLOR, R. DEAN (Q-26) COMP.

8-24
LASL NIOBIUM(3)GERMANIUM CONDUCTOR DEVELOPMENT, MAY 1 - JULY 31, 1975.
LASL, 1975. 10P. (LA-6099-PR)
KELLER, WILLIAM E. (Q-26) COMP.
TAYLOR, R. DEAN (Q-26) COMP.

8-25
LIMITING FLUX PASSAGE TIME IN NARROW SUPERCONDUCTORS.
PHYS. REV. LETT., V.35, P.305-7. 1975.
RACHFORD, F. J.
WOLF, S. A.
NISENOFF, M.
HUANG, CHAO-YUAN (Q-26)

8-26
MAGNETIC ENERGY STORAGE FOR ELECTRIC UTILITY APPLICATIONS.
TIC, 1975. 8P. MN (LA-UR-75-967)
HASSENZAHL, WILLIAM V. (Q-26)
FUKA, LOUIS R. (Q-26)
KELLER, WILLIAM E. (Q-26)
SCHERMER, ROBERT I. (Q-26)
TURNER, ROBERT D. (Q-26)

8-27
MAGNETIC ENERGY STORAGE FOR ELECTRIC UTILITY APPLICATIONS.
ABSTRACT PUBLISHED IN:
BULL. N. MEX. ACAD. SCI., V.15, NO.2, P.20-1. 1975.
HASSENZAHL, WILLIAM V. (Q-26)
FUKA, LOUIS R. (Q-26)
KELLER, WILLIAM E. (Q-26)
SCHERMER, ROBERT I. (Q-26)
TURNER, ROBERT D. (Q-26)

8-28
MAGNETIC ENERGY STORAGE FOR ELECTRIC UTILITY APPLICATIONS.
MAGNET TECHNOLOGY. 1975. 5TH INTERNATIONAL CONFERENCE. ROME. PROC., P.485-91. LABORATORI NAZIONALI DEL CNEN, 1975. (538:M196 5TH)
HASSENZAHL, WILLIAM V. (Q-26)
FUKA, LOUIS R. (Q-26)
KELLER, WILLIAM E. (Q-26)
SCHERMER, ROBERT I. (Q-26)
TURNER, ROBERT D. (Q-26)

8-29
MAGNETIC FIELD MICROPROBE IN SUPERCONDUCTORS CARRYING A CURRENT.
TIC, 1975. 4P. MN (LA-UR-74-1473)
ALSO PUBLISHED IN:
IEEE TRANS. MAGN., V.MAG-11, P.347-9. 1975. (LA-UR-74-1473)*
MIGLIORI, ALBERT (Q-26)
BARTLETT, ROGER J. (Q-26)
TAYLOR, R. DEAN (Q-26)

8-30
NEUTRON IRRADIATION OF NIOBIUM(3)TIN AND NIOBIUM - TITANIUM MULTIFILAMENTARY COMPOSITES.
TIC, 1975. 5P. MN (LA-UR-74-1453)
PARKIN, DON M. (CMB-8)
SWEEDLER, A. R.

8-31
NEUTRON IRRADIATION OF NIOBIUM(3)TIN AND NIOBIUM - TITANIUM MULTIFILAMENTARY COMPOSITES.
IEEE TRANS. MAGN., V.MAG-11, P.166-9. 1975.
PARKIN, DON M. (CMB-8)
SWEEDLER, A. R.

8-32
OBSERVATION OF ASYMMETRY EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT IN TYPE II TANTALUM WIRES.
LOW TEMPERATURE PHYSICS. 1975. 14TH INTERNATIONAL CONFERENCE. OTANIEMI, FINLAND. PROC., V.2. SUPERCONDUCTIVITY. P.149-52. AMERICAN ELSEVIER, 1975. (536:I61 14TH V.2)
ALSO PUBLISHED AS:
TIC, 1975. 5P. MN (LA-UR-75-750)
OVERTON, WILLIAM C., JR. (Q-26)
WEINSTOCK, H.
SCHUCH, ADAM F. (Q-26)

8-33
OBSERVATION OF STEPS IN THE MICROWAVE IMPEDANCE OF SUPERCONDUCTING MICROBRIDGES.
SOLID STATE COMMUN., V.17, P.1493-7. 1975.
RACHFORD, F. J.
HUANG, CHAO-YUAN (Q-26)
WOLF, S. A.
NISENOFF, M.

8-34
OPERATING EXPERIENCE WITH A LIQUID HYDROGEN FUELED VEHICLE.
ADV. CRYOG. ENG., V.20, P.82-9. 1975. (LA-UR-74-1637)*
STEWART, WALTER F. (Q-26)
EDESKUTY, FREDERICK J. (Q-26)
WILLIAMSON, KENNETH D., JR. (CTR-9)
LUDGEN, H. MICHAEL

8-35
PHONON THERMAL CONDUCTIVITY OF SUPERCONDUCTING LEAD - THALLIUM ALLOYS.
LOW TEMPERATURE PHYSICS. 1975. 14TH INTERNATIONAL CONFERENCE. OTANIEMI, FINLAND. PROC., V.2, SUPERCONDUCTIVITY, P.437-40. AMERICAN ELSEVIER. 1975. (536:I61 14TH V.2)
HO, J. L.
CHAU, C. K.
WEINSTOCK, H. (Q-26)
OVERTON, WILLIAM C., JR. (Q-26)

8-36
POOL BOILING HEAT TRANSFER TO LIQUID HELIUM AND LIQUID NITROGEN IN A NEARLY ZERO GRAVITY ENVIRONMENT.
CRYOGENIC ENGINEERING. 1974. 5TH INTERNATIONAL CONFERENCE. KYOTO. PROC., P.258-61. IPC SCIENCE AND TECHNOLOGY PRESS, 1974. (536:C957E 5TH)
EDESKUTY, FREDERICK J. (Q-26)
WILLIAMSON, KENNETH D., JR. (Q-26)
TAYLOR, JAMES F. (Q-26)

8-37
PREPARATION OF HIGH T(C) NIOBIUM(3) GERMANIUM SUPERCONDUCTORS BY CHEMICAL VAPOR DEPOSITION.
TIC, 1975. 10P. MN (LA-UR-75-804)
NEWKIRK, LAWRENCE R. (CMB-3)
VALENCIA, FLAVIO A. (CMB-3)
WALLACE, TERRY C. (CMB-3)

8-38
PROGRESS REPORT. USERDA-DAT DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JULY 1 THROUGH SEPTEMBER 30, 1974.
LASL, 1975. 17P. (LA-5851-PR)
KELLER, WILLIAM E. (Q-26) COMP.
TAYLOR, R. DEAN (Q-26) COMP.

8-39
PROPERTIES OF BONE AT LOW TEMPERATURE AND ITS POTENTIAL AS CRYOSTAT SUPPORT MATERIAL.
CRYOGENICS, V.15, P.645-8. 1975.
WIPF, STEFAN L. (Q-26)
GIBNEY, ROBERT B. (CMB-8)

8-40
PROPOSED METS (MAGNETIC ENERGY TRANSFER AND STORAGE) - FTR (FUSION TEST REACTOR) COUPLED SUPERCONDUCTING PROTOTYPE SYSTEM.
LASL, 1975. 27P. (LA-5918-P)
ROGERS, JOHN D., JR. (CTR-9) COMP.
WILLIAMSON, KENNETH D., JR. (CTR-9) COMP.

8-41
REVERSIBLE ENERGY TRANSFER BETWEEN INDUCTANCES.
TIC, 1975, 8P, MN (LA-UR-75-15)
WIPF, STEFAN L. (Q-26)

8-42
SPONTANEOUS MAGNETIC ORDER IN EXTREMELY DILUTE GOLD - IRON ALLOYS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.459, 1975.
BORG, R. J.
TAYLOR, R. DEAN (Q-26)

8-43
STABILIZING SUPERCONDUCTORS FOR POWER ENGINEERING APPLICATIONS.
TIC, 1975, 7P, MN (LA-UR-75-189)
HOFFER, JAMES K. (Q-26)
LAQUER, HENRY L. (Q-26)
KERR, EUGENE C. (Q-26)

8-44
SUPERCONDUCTING ELECTRIC POWER TRANSMISSION.
ABSTRACT PUBLISHED IN:
BULL. N. MEX. ACAD. SCI., V.15, NO.2, P.20, 1975.
TRELA, WALTER J. (ENERGY OFF)

8-45
SUPERCONDUCTING MAGNETIC AND INERTIAL ENERGY PULSED POWER SYSTEMS.
TIC, 1975, 32P, MN (LA-UR-75-1510)
ALSO PUBLISHED IN:
RADIATION TEST FACILITIES FOR THE CTR SURFACE AND MATERIALS PROGRAM, 1975, INTERNATIONAL CONGRESS, ARGONNE, IL, PROC., P.807-28, ANL, 1976.
(ANL/CTR-75-4)
SWANNACK, CLARKE E. (CTR-9)
WILLIAMSON, KENNETH D., JR. (CTR-9)

8-46
SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, APRIL 1 THROUGH SEPTEMBER 30, 1974.
LASL, 1975, 10P, (LA-5935-PR)
HASSENZAHL, WILLIAM V. (Q-26) COMP.

8-47
SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, JANUARY 1 - MARCH 31, 1975.
LASL, 1975, 15P, (LA-6117-PR)
HASSENZAHL, WILLIAM V. (Q-26) COMP.

8-48
SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, OCTOBER 1 - DECEMBER 31, 1974.
LASL, 1975, 9P, (LA-6004-PR)
HASSENZAHL, WILLIAM V. (Q-26) COMP.

8-49
SUPERCONDUCTING MAGNETIC ENERGY STORAGE.
TIC, 1974, 22P, MN (LA-UR-74-737)
ALSO PUBLISHED IN:
CRYOGENICS, V.15, P.73-8, 1975.
ALSO PUBLISHED IN:
CRYOGENIC ENGINEERING, 1974, 5TH INTERNATIONAL CONFERENCE, KYOTO, PROC., P.71-7, IPC SCIENCE AND TECHNOLOGY PRESS, 1974.
(536:C957E 5TH)
LAQUER, HENRY L. (Q-26)

8-50
SUPERCONDUCTIVITY, ENERGY STORAGE AND SWITCHING.
TIC, 1975, 27P, MN (LA-UR-75-758)
LAQUER, HENRY L. (Q-26)

8-51
SUPERFLUID FLOW THROUGH MULTIPLY CONNECTED GEOMETRIES.
PHYSICA, V.78, P.245-58, 1974.
(LA-UR-74-979)*
CAMPBELL, LAURENCE J. (Q-26)

8-52
TEMPERATURE AND CURRENT DEPENDENCE OF THE MAGNETIC FIELD PROFILES OF NIOBIUM(3)TIN TAPES CARRYING A CURRENT.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.294, 1975.
MIGLIORI, ALBERT (Q-26)
BARTLETT, ROGER J. (Q-26)
TAYLOR, R. DEAN (Q-26)

8-53
THEORY OF MAGNETIZED ISING ANTIFERROMAGNETS AT LOW TEMPERATURES.
J. LOW TEMP. PHYS., V.20, P.637-53, 1975, (LA-UR-74-849)*
GOLDSTEIN, LOUIS (T-DOT)

8-54
THERMAL BEHAVIOR OF ORDERED LIQUID HELIUM -3.
J. LOW TEMP. PHYS., V.18, P.543-7, 1975, (LA-UR-74-1189)*
GOLDSTEIN, LOUIS (T-DOT)

8-55
THERMODYNAMIC PROPERTIES OF FLUIDS BELOW 20 DEGREES KELVIN.
EXPERIMENTAL THERMODYNAMICS, V.2, B. LENEINDRE AND B. VODAR, ED. CH.26, P.1219-66, BUTTERWORTHS, 1975.
(541:E96T V.2)
KELLER, WILLIAM E. (P-8)

8-56
THIN WINDOWS FOR GASEOUS AND LIQUID TARGETS: AN OPTIMIZATION PROCEDURE.
LASL, 1975, 15P, (LA-5833-MS)
ALSO PUBLISHED IN:
CRYOGENICS, V.15, P.627-38, 1975.
HASSENZAHL, WILLIAM V. (Q-26)
GRAY, W. H. (Q-26)

8-57
USE OF ADIABATIC DEMAGNETIZATION TO MEASURE THE ELECTRIC FIELD GRADIENT IN CADMIUM.
LOW TEMPERATURE PHYSICS, 1975, 14TH INTERNATIONAL CONFERENCE, OTANIEMI, FINLAND, PROC., V.4, TECHNIQUES AND SPECIAL TOPICS, P.48-51, AMERICAN ELSEVIER, 1975, (536:161 14TH V.4)
ROSENBLUM, STEPHEN S. (Q-26)
STEYERT, WILLIAM A., JR. (Q-26)

8-58
USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, APRIL 1 - JUNE 30, 1975.
LASL, 1975, 24P. (LA-6171-PR)
KELLER, WILLIAM E. (Q-26) COMP.
TAYLOR, R. DEAN (Q-26) COMP.

8-59
USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JANUARY 1 - MARCH 31, 1975.
LASL, 1975, 23P. (LA-6053-PR)
KELLER, WILLIAM E. (Q-26) COMP.
TAYLOR, R. DEAN (Q-26) COMP.

8-60
USERDA DIVISION OF ELECTRIC POWER TRANSMISSION AND DISTRIBUTION DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1974.
LASL, 1975, 14P. (LA-5972-PR)
KELLER, WILLIAM E. (Q-26)
TAYLOR, R. DEAN (Q-26)

8-61
VERY LOW TEMPERATURE PROPERTIES OF LIQUID HELIUM -3.
J. LOW TEMP. PHYS., V.21, P.321-45, 1975, (LA-UR-74-548)*
GOLDSTEIN, LOUIS (T-DOT)

8-62
WILL SUPERCONDUCTING MAGNETIC ENERGY STORAGE BE USED ON ELECTRIC UTILITY SYSTEMS?
TIC, 1975, 7P. MN (LA-UR-74-1470)
ALSO PUBLISHED IN:
IEEE TRANS. MAGN., V.MAG-11, P.482-8, 1975, (LA-UR-74-1470)*
HASSENZAHL, WILLIAM V. (Q-26)

9. CRYSTALLOGRAPHY

9-1
ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 1. PHASE BOUNDARY, THERMODYNAMICS AND LATTICE PARAMETER.
HIGH TEMP. SCI., V.7, P.103-21. 1975.
(LA-UR-74-638)*
STORMS, EDMUND K. (CMB-3)

9-2
ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 2. SUPERCONDUCTING TRANSITION TEMPERATURE.
J. PHYS. CHEM. SOLIDS, V.36, P.689-94.
1975. (LA-UR-74-1323)*
STORMS, EDMUND K. (CMB-3)
GIORGI, ANGELO L. (CMB-3)
SZKLARZ, EUGENE G. (CMB-3)

9-3
ATOMIC SCATTERING FACTORS FOR X RAYS.
INTERNATIONAL TABLES FOR X-RAY CRYSTALLOGRAPHY, V.4, SECTION 2.2, P.71-147. KYNOCH, 1974. (548:IN8I V.4)
(LA-DC-10193)*
CROMER, DON T. (CMF-5)
WABER, JAMES T.

9-4
BOND LENGTHS AND BOND STRENGTHS IN COMPOUNDS OF THE 5F ELEMENTS.
TIC, 1975. 6P. MN (LA-UR-75-1364)
ZACHARIASEN, WILLIAM H. (CNC-4)

9-5
COHERENT INELASTIC ELECTRON SCATTERING IN LEED (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF ARSENIC(0001).
SURF. SCI., V.50, P.178-96. 1975.
(LA-UR-74-1635)*
ELLIS, WALTON P. (CMB-8)

9-6
CRYSTAL AND MOLECULAR STRUCTURE OF CHLOROBIS (3-BUTENYLDIPHENYLPHOSPHINO) RHODIUM(I).
INORG. CHEM., V.14, P.3039-42. 1975.
(LA-UR-75-1028)*
RYAN, ROBERT R. (CNC-4)
SCHAEFFER, RILEY (CNC-4)
CLARK, PETER
HARTWELL, GEORGE

9-7
CRYSTAL DATA FOR TWO POLYMORPHIC FORMS OF PLUTONIUM DIOXIDE (PUOS2).
J. APPL. CRYSTALLOGR., V.8, P.687-8.
1975. (LA-UR-75-435)*
ROOF, RAYMOND BRADLEY, JR. (CMB-5)

9-8
CRYSTAL STRUCTURE OF PRASEODYMIUM(7) OXYGEN(12) BY POWDER NEUTRON DIFFRACTION.
ACTA CRYSTALLOGR., V.B31, P.971-4.
1975.
VON DREELE, ROBERT B.
EYRING, LEROY
BOWMAN, ALLEN L. (CMB-3)
YARNELL, JOHN L. (P-2)

9-9
DISPERSION CORRECTIONS FOR X RAY ATOMIC SCATTERING FACTORS.
INTERNATIONAL TABLES FOR X-RAY CRYSTALLOGRAPHY, V.4, SECTION 2.3.1, P.148-51. KYNOCH, 1974. (548:IN8I V.4)
(LA-DC-10093)*
CROMER, DON T. (CMF-5)

9-10
EVIDENCE FOR THE EXISTENCE OF FAULTING IN A SPLAT COOLED DELTA PLUTONIUM(TITANIUM) ALLOY.
J. MATER. SCI., V.10, P.101-8. 1975.
(LA-UR-74-981)*
ROOF, RAYMOND BRADLEY, JR. (CMB-5)
ELLIOTT, REED O. (CMB-5)

9-11
HIGH ANGULAR RESOLUTION SECONDARY ELECTRON SPECTROSCOPY: KIKUCHI CORRELATIONS FOR ARSENIC (0001).
APPL. PHYS. LETT., V.26, P.44-6. 1975.
(LA-UR-74-1350)*
RUSCH, THOMAS W. (CMB-8)
ELLIS, WALTON P. (CMB-8)

9-12
INTERACTIONS OF SMALL MOLECULES WITH COPPER(I) PHOSPHINE COMPLEXES.
ABSTRACT PUBLISHED IN:
ACTA CRYSTALLOGR., V.A31, P.S134.
1975.
ELLER, P. GARY (CNC-4)
RYAN, ROBERT R. (CNC-4)

9-13
INTERACTIONS OF SULFUR CONTAINING SMALL MOLECULES WITH ORGANOPHOSPHINE COPPER(I) COMPLEXES.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.170, PAPER NO.INOR-134. 1975.
ELLER, P. GARY (CNC-4)
RYAN, ROBERT R. (CNC-4)

9-14
NEUTRON DIFFRACTION STUDIES OF DEUTERIUM - SOLID STRUCTURES AND TRANSITIONS.
TIC, 1975. 5P. MN (LA-UR-74-1716)
YARNELL, JOHN L. (P-2)
MILLS, ROBERT L. (Q-26)
SCHUCH, ADAM F. (Q-26)

9-15
NEUTRON DIFFRACTION STUDY OF HEXAAMMINE D3 CALCIUM(0) AT 75 DEGREES KELVIN.
J. PHYS. CHEM., V.79, P.2992-5. 1975.
YARNELL, JOHN L. (P-2)
BOWMAN, ALLEN L. (CMB-3)
VON DREELE, ROBERT B.
GLAUNSINGER, W. S.

9-16
OPTICAL AND MORPHOLOGICAL CRYSTALLOGRAPHY OF PLUTONIUM COMPOUNDS.
LASL, 1949. DECLASSIFIED 1974. 52P.
(LA-745)
STARITZKY, EUGENE
TRUITT, ARTHUR L.

9-17
PENTAERYTHRITOL TETRANITRATE II: ITS CRYSTAL STRUCTURE AND TRANSFORMATION TO PETN I: AN ALGORITHM FOR REFINEMENT OF CRYSTAL STRUCTURES WITH POOR DATA.
ACTA CRYSTALLOGR., V.B31, P.1864-9.
1975. (LA-UR-74-98)*
CADY, HOWARD H. (WX-2)
LARSON, ALLEN C. (CMB-5)

9-18
PHONON DRIVEN PHASE CHANGE IN CESIUM LITHIUM CHROMIUM HEXACYANIDE.
ABSTRACT PUBLISHED IN:
ACTA CRYSTALLOGR., V.A31, P.S190.
1975.
RYAN, ROBERT R. (CNC-4)
SWANSON, BASIL I. (CNC-4)

9-19
RADIATION EFFECTS ON THE LATTICE CONSTANTS OF SINGLE CRYSTAL ALUMINUM DIOXIDE.
J. NUCL. MATER., V.55, P.357-8. 1975.
(LA-UR-74-1379)*
ROOF, RAYMOND BRADLEY, JR. (CMB-5)
RANKEN, WILLIAM A. (Q-25)

9-20
REFINEMENT OF THE CRYSTAL STRUCTURE OF CUPROSKLODOWSKITE.
AM. MINERAL., V.60, P.448-53. 1975.
(LA-UR-74-345)*
ROSENZWEIG, ABRAHAM (CNC-4)
RYAN, ROBERT R. (CNC-4)

9-21
REFINEMENT OF THE CRYSTAL STRUCTURE OF MELAMINE, 2,4,6- TRIAMINO -S- TRIAZINE, USING GENERALIZED SCATTERING FACTORS AT THE OCTUPOLE LEVEL.
ABSTRACT PUBLISHED IN:
ACTA CRYSTALLOGR., V.A31, P.S224.
1975.
CROMER, DON T. (CMB-5)
LARSON, ALLEN C.
STEWART, ROBERT F.

9-22
REMARKS ON SOME EXCEPTIONS TO THE ENGEL-BREWER RULES.
J. PHYS. CHEM. SOLIDS, V.36, P.830-1.
1975.
HILL, H. HUNTER (CMB-5)

9-23
STRUCTURE OF PLUTONIUM - PALLADIUM.
ACTA CRYSTALLOGR., V.B31, P.1760-1.
1975. (LA-UR-74-1874)*
CROMER, DON T. (CMB-5)

9-24
STRUCTURE OF PLUTONIUM(5) - PLATINUM(3).
ACTA CRYSTALLOGR., V.B31, P.1758-9.
1975. (LA-UR-74-1876)*
CROMER, DON T. (CMB-5)
LARSON, ALLEN C.

9-25
STRUCTURE OF PLUTONIUM(5) - RUTHENIUM(3).
ACTA CRYSTALLOGR., V.B31, P.1756-7.
1975. (LA-UR-74-1875)*
CROMER, DON T. (CMB-5)
LARSON, ALLEN C.
ROOF, RAYMOND BRADLEY, JR. (CMB-5)

9-26
STRUCTURE OF TRIS(CYCLOPENTADIENYL) FLUOROURANIUM(IV).
J. AM. CHEM. SOC., V.97, P.4258-60.
1975. (LA-UR-74-1772)*
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.169, PAPER NO.FLUO-31. 1975.
PENNEMAN, ROBERT A. (CNC-4)
RYAN, ROBERT R. (CNC-4)
FUKUSHIMA, EIICHI (CNC-4)

9-27
SYNTHESIS, CHARACTERIZATION AND STRUCTURE OF URANIUM OXIDE TETRAFLUORIDE.
INORG. CHEM., V.14, P.1113-7. 1975.
(LA-UR-74-906)*
PAINE, ROBERT T., JR. (CNC-4)
RYAN, ROBERT R. (CNC-4)
ASPREY, LARNED B. (CNC-4)

10. CTR AND PLASMA PHYSICS

10-1
ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY.
PHYS. FLUIDS, V.18, P.1327-35, 1975.
(LA-UR-75-421)*
GLADD, N. THOMAS (CTR-6)
DAVIDSON, RONALD C. (CTR-6)

10-2
APPLICATION OF SENSITIVITY ANALYSIS TO A QUANTITATIVE ASSESSMENT OF NEUTRON CROSS SECTION REQUIREMENTS FOR THE TFTR (TOKAMAK FUSION TEST REACTOR): AN INTERIM REPORT.
LASL, 1975, 43P. (LA-6118-MS)
GERSTL, S. A. W. (T-1)
DUDZIAK, DONALD J. (T-1)
MUIR, DOUGLAS W. (T-2)

10-3
ASPECTS OF THETA PINCH POWER PLANT DEVELOPMENT.
ENGINEERING PROBLEMS OF FUSION RESEARCH. 1973. 5TH SYMPOSIUM, PRINCETON, NJ. PROC., P.155-9. IEEE, 1974. (537:S989EN 1973)
COULTAS, THOMAS A.
KRAKOWSKI, ROBERT A. (CTR-7)

10-4
CANONICAL MOMENTA AND NUMERICAL INSTABILITIES IN PARTICLE CODES.
J. COMPUT. PHYS., V.19, P.58-76, 1975.
(LA-UR-74-1644)*
GODFREY, BRENDAN B. (T-6)

10-5
CAPACITOR REQUIREMENTS FOR CONTROLLED THERMONUCLEAR EXPERIMENTS AND REACTORS.
TIC, 1975, 21P. MN (LA-UR-75-1232)
BOICOURT, GRENFELL P. (CTR-4)
HOFFMAN, P. S.

10-6
CHARACTERISTICS OF HIGH DENSITY THETA PINCHES SEEDED WITH SELECTED HIGH Z ELEMENTS.
TIC, 1976, 5P. MN (LA-UR-75-1542)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1521, 1975.
THOMSON, DAVID B. (P-3)
JONES, LARRY A. (P-3)
BAILEY, ARTHUR G. (CTR-4)
ENGLEMAN, ROLF, JR. (CMB-1)

10-7
CHARGED PARTICLE MASS AND ENERGY DEPOSITION IN A THERMONUCLEAR PLASMA.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.683, 1975.
ANTAL, MICHAEL J., JR. (TD-1)
DANA, ARTHUR L. (TD-1)
LEE, CLARENCE E. (TD-1)

10-8
COMPARISON OF THREE TWO DIMENSIONAL ELECTROSTATIC PLASMA SIMULATION MODELS.
J. COMPUT. PHYS., V.17, P.1-9, 1975.
(LA-UR-73-1098)*
LEWIS, H. RALPH, JR. (Q-6)
NIELSON, CLAIR W. (Q-6)

10-9
COMPUTER SIMULATION OF COLLECTIVE ION ACCELERATION BY RELATIVISTIC ELECTRON BEAMS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1271, 1975.
GODFREY, BRENDAN B. (T-6)
THODE, LESTER E. (T-6)

10-10
CONSEQUENCES OF COUPLING COEFFICIENT SATURATION ON THE NONLINEAR BEHAVIOR OF DECAY INSTABILITIES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1375, 1975.
DUBOIS, DONALD F. (T-6)
BEZZERIDES, BANDEL (T-6)

10-11
CONTROLLED FUSION RESEARCH: HIGHLIGHTS OF THE TOKYO IAEA CONFERENCE AND SUBSEQUENT DEVELOPMENTS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21, P.42, 1975.
RIBE, FRED L. (CTR-DO)

10-12
CONTROLLED THERMONUCLEAR RESEARCH AT THE LOS ALAMOS SCIENTIFIC LABORATORY.
ABSTRACT PUBLISHED IN:
BULL. N. MEX. ACAD. SCI., V.15, NO.2, P.20, 1975.
SAWYER, GEORGE A. (CTR-DO)

10-13
COULOMB LOGARITHM CUTOFF.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1260, 1975.
FRALEY, GARY S. (T-6)

10-14
COUPLING COEFFICIENT SATURATION IN THE NONLINEAR THEORY OF PARAMETRIC INSTABILITIES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1375, 1975.
BEZZERIDES, BANDEL (T-6)
DUBOIS, DONALD F. (T-6)

10-15
CTR APPLICATIONS OF THE HIGH DENSITY LINEAR THETA PINCH.
NUCL. FUSION, V.15, P.255-70, 1975.
(LA-UR-74-1079)*
ELLIS, WILLIAM R., JR. (CTR-3)

10-16
CURRENT DRIVEN INSTABILITIES IN THE PRESENCE OF HEAT CONDUCTION.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC. SER.2, V.20, P.1377-8, 1975.
MITCHELL, ROBERT W. (T-6)
FORSLUND, DAVID W. (T-6)
KINDEL, JOSEPH M. (T-6)
LEE, KENNETH (T-6)
LINDMAN, ERICK L. (T-6)
MORSE, RICHARD L. (T-DO)

10-17
DESCRIPTION OF COLLISIONLESS PLASMAS BY CLASSICAL FIELD EQUATIONS.
LASL, 1975, 7P. (LA-6136)
FRALEY, GARY S. (T-6)

10-18
DESIGN OF THE ZT-1 TOROIDAL PINCH EXPERIMENT.
LASL, 1975, 19P. (LA-6173-MS)
BAKER, DON A. (CTR-2)
BURKHARDT, LOUIS C. (CTR-2)
DIKE, ROBERT S. (CTR-4)
DI MARCO, JOSEPH N. (CTR-2)
FORMAN, PETER R. (CTR-8)
HABERSTICH, ALBERT (CTR-2)
KARR, HUGH J. (CTR-2)
MANN, LAWRY W. (CTR-6)
PHILLIPS, JAMES A. (CTR-DO)
SCHOFIELD, ALDRED E. (CTR-2)

10-19
DEUTERIUM - TRITIUM FUSION REACTOR ACTIVATION AND AFTERHEAT.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.19, P.459, 1974.
PRICE, W. G.
DUDZIAK, DONALD J. (T-1)
LEE, J. D.
POWELL, J. R.
STEINER, D.
VOGELSANG, W. F.

10-20
DEUTERIUM FLOW LOOP FOR A SUPERSONIC GAS TARGET INTENSE NEUTRON SOURCE.
LASL, 1975, 17P. (LA-5849-MS)
CORT, GEORGE E. (Q-23)

10-21
DIGITAL TELEVISION CAMERA FOR A THOMSON SCATTERING DETECTOR.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1296, 1975.
CHANDLER, GEORGE I. (CTR-3)
LILLBERG, JOHN W. (CTR-3)
SIEMON, RICHARD E. (CTR-3)

10-22
DYNAMIC MODEL OF GROSS PLASMA MOTION IN SCYLLAC.
TIC, 1976, 5P. MN (LA-UR-75-1558)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1521-2, 1975.
MILLER, GUTHRIE (CTR-3)

10-23
DYNAMICS OF THE DENSE PLASMA FOCUS AS DETERMINED FROM AN ANALYSIS OF LASER SCATTERING SPECTRA.
PHYS. FLUIDS, V.18, P.991-1001, 1975.
(LA-UR-74-917)*
DOWNING, JAMES N., JR. (P-7)
EISNER, MELVIN

10-24
EFFECT OF LARGE POLOIDAL BETA ON TOKAMAK TRANSPORT.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1519, 1975.
SIGMAR, D. J.
FREIDBERG, JEFFREY P. (CTR-6)

10-25
ELECTROMAGNETIC ION CYCLOTRON INSTABILITY DRIVEN BY ION ENERGY ANISOTROPY IN HIGH BETA PLASMAS.
PHYS. FLUIDS, V.18, P.1045-50, 1975.
(LA-UR-75-422)*
DAVIDSON, RONALD C. (CTR-6)
OGDEN, JOAN M.

10-26
ELECTRON HEATING AND LANDAU DAMPING IN INTENSE LOCALIZED ELECTRIC FIELDS.
PHYS. REV. LETT., V.34, P.1381-4, 1975. (LA-UR-74-1638)*
BEZZERIDES, BANDEL (T-6)
DUBOIS, DONALD F. (T-6)

10-27
ENDLOSS FROM A LINEAR THETA PINCH.
NUCL. FUSION, V.15, P.217-23, 1975.
FREIDBERG, JEFFREY P. (CTR-6)
WEITZNER, HAROLD (CTR-6)

10-28
ENERGY LOSS OF A RELATIVISTIC, FINITE ELECTRON BEAM IN A PLASMA.
PHYS. FLUIDS, V.18, P.614-5, 1975.
(LA-UR-73-1667)*
GERWIN, RICHARD A. (Q-6)

10-29
ENERGY SPECTRUM OF INJECTED FUSSILE IONS IN TWO COMPONENT FUSION SYSTEMS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21, P.42-3. 1975.
HUSSEINY, A. A.
SABRI, Z. A.
HARRIS, DONALD R., JR. (T-2)

10-30
ENERGY STORAGE, COMPRESSION, AND SWITCHING IN A THETA PINCH FUSION TEST REACTOR.
TIC, 1975. 8P. MN (LA-UR-75-554)
THOMASSEN, KEITH I. (CTR-7)

10-31
ENGINEERING DESIGN OF A LINEAR THETA PINCH HYBRID REACTOR (LTPHR).
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21, P.61-2. 1975.
KRAKOWSKI, ROBERT A. (CTR-7)
DUDZIAK, DONALD J. (T-1)
OLIPHANT, THOMAS A., JR. (CTR-7)
THOMASSEN, KEITH I. (CTR-7)

10-32
ENHANCED WEAK FIELD ELECTRICAL RESISTIVITY OF A PARAMETRICALLY UNSTABLE PLASMA.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1383. 1975.
BANTON, MARTIN E. (CTR-1)
DREICER, HARRY (CTR-DO)
INGRAHAM, JOHN C. (CTR-1)
WRIGHT, BRADFORD L. (CTR-1)

10-33
ENVIRONMENTAL AND TECHNOLOGICAL IMPLICATIONS OF A THETA PINCH FUSION POWER PLANT.
NUCL. FUSION, V.14, SUPPL., P.151-68. 1974.
COULTAS, THOMAS A.
BURKE, R. J.
KRAKOWSKI, ROBERT A. (CTR-DOT)

10-34
EQUILIBRIUM AND STABILITY OF HIGH BETA DIFFUSE TOKAMAKS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1518. 1975.
FREIDBERG, JEFFREY P. (CTR-6)
GOEDBLOED, JOHAN P. (CTR-6)

10-35
EXPERIMENTAL STUDY OF AREA WAVES IN THE 8 METER SCYLLAC FEEDBACK SECTOR.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1345. 1975.
ELLIS, WILLIAM R., JR. (CTR-3)
FREESE, KENNETH B. (CTR-8)

10-36
EXPERIMENTAL STUDY OF PLASMA END LOSS FROM A LINEAR THETA PINCH.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1345. 1975.
MC KENNA, KENNETH F. (CTR-3)
YORK, THOMAS M.

10-37
EXPLODING LINER INITIATED DENSE Z PINCH.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1298. 1975.
HAMMEL, JAY E. (CTR-5)
INGRAHAM, JOHN C. (CTR-1)

10-38
FIELD DISTRIBUTIONS IN A SPIRAL RESONATOR.
NUCL. INSTRUM. METHODS, V.126, P.341-8. 1975. (LA-UR-75-348)*
BENDT, PHILIP J. (P-2)
SIERK, ARNOLD J. (T-9)
TOMBRELLO, T. A.

10-39
FIRST WALL MATERIALS PROBLEMS IN FUSION REACTORS.
TIC, 1974. 6P. MN (LA-UR-74-1206)
ABSTRACT PUBLISHED IN:
J. VAC. SCI. TECHNOL., V.12, P.510. 1975. (LA-UR-74-1206)*
CLINARD, FRANK W., JR. (CMB-5)

10-40
FLUTE INSTABILITIES IN TWO DIMENSIONAL SIMULATIONS OF STRONGLY INHOMOGENEOUS THETA PINCH PLASMAS.
PHYS. REV. LETT., V.35, P.937-40. 1975. (LA-UR-75-1208)*
WINSKE, DAN (CTR-6)
HEWETT, DENNIS W. (CTR-6)

10-41
FRACTIONAL FRINGE TIME DIFFERENTIAL HOLOGRAPHIC INTERFEROMETRY.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1294. 1975.
FORMAN, PETER R. (CTR-8)

10-42
FREE SPACE BOUNDARY CONDITIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.26. 1975.
LINDMAN, ERICK L. (T-6)

10-43
FUSION - FISSION HYBRID.
REPORT OF THE GOVERNOR'S TASK FORCE COMMITTEE ON NUCLEAR ENERGY, P.II-35-7. BUREAU OF ENGINEERING RESEARCH, UNM, 1975. (338:N532R)
KRAKOWSKI, ROBERT A. (CTR-7)

10-44
FUSION REACTOR SYSTEMS.
REV. MOD. PHYS., V.47, P.7-41. 1975. (LA-UR-74-758)*
RIBE, FRED L. (CTR-DO)

10-45
FUTURE OF FUSION.
SCIENCE, V.187, P.215-6. 1975.
POST, RICHARD F.
RIBE, FRED L. (CTR-DO)

10-46
HEAT TRANSFER MODEL FOR COMPOSITE FIRST WALL MATERIALS IN A PULSED HIGH BETA CONTROLLED THERMONUCLEAR REACTOR (CTR).
LASL, 1975. 45P. (LA-5832-MS)
TESTER, JEFFERSON W. (Q-22)
HERRICK, CLAUDE C. (CMB-8)

10-47
HETERODYNE INTERFEROMETRY PLASMA DENSITY MEASUREMENT.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1322. 1975.
KRISTAL, RICHARD (CTR-8)
PETERSON, RICHARD W.

10-48
HIGH DENSITY LINEAR SYSTEMS FOR FUSION POWER.
TIC, 1976. 5P. MN (LA-UR-75-1565)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1532. 1975.
ELLIS, WILLIAM R., JR. (CTR-3)
KRAKOWSKI, ROBERT A. (CTR-DOT)

10-49
HIGH TEMPERATURE MEASUREMENTS OF THE STARK BROADENED HE-II 4686 ANGSTROM LINE PROFILE.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1321. 1975.
JONES, LARRY A. (P-3)
THOMSON, DAVID B. (P-3)
KALLNE, ELISABETH (P-3)

10-50
HOT ELECTRON PRODUCTION, ANOMALOUS ABSORPTION AND EFFECT OF INTENSE ELECTROMAGNETIC FIELDS ON INVERSE BREMSSTRAHLUNG ABSORPTION NEAR THE ELECTRON PLASMA FREQUENCY.
TIC, 1975. 8P. MN (LA-UR-74-1508)
BROWNELL, JOHN H. (CTR-1)
DREICER, HARRY (CTR-1)
ELLIS, RICHARD F. (CTR-1)
INGRAHAM, JOHN C. (CTR-1)

10-51
HYBRID - KINETIC MODEL FOR HIGH BETA PLASMAS.
PHYS. FLUIDS, V.18, P.1507-23. 1975.
D'IPPOLITO, DAN
DAVIDSON, RONALD C. (CTR-6)

10-52
HYBRID MODEL STUDIES OF MAGNETIC FIELD DIFFUSION IN HIGH BETA PINCHES.
TIC, 1975. 5P. MN (LA-UR-75-1567)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1524. 1975.
SGRO, ANTHONY G. (CTR-6)
NIELSON, CLAIR W. (CTR-6)

10-53
HYBRID SIMULATION OF SCREW PINCH IMPLOSIONS WITH IMPURITIES AND OF THETA PINCH IMPLOSIONS RESULTING IN REFLECTED ION BEAMS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1329. 1975.
SGRO, ANTHONY G. (CTR-6)
NIELSON, CLAIR W. (CTR-6)

10-54
IMPLICATIONS TO THE CTR COMMUNITY OF STANDARDIZATION IN NUCLEAR ANALYSIS CODES.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.39-40. 1975.
BOSLER, GERALD E. (T-1)

10-55
IMPLOSION AND STAGING IN THETA PINCHES.
PLASMA WAVES. 1975. U.S.-AUSTRALIAN WORKSHOP, SYDNEY, CANBERRA, AND ADELAIDE. PROC., P.29.1-29.3. UNIVERSITY OF SYDNEY, 1975. (537:P715W)
THOMASSEN, KEITH I. (CTR-DO)

10-56
IMPLOSION HEATING STUDIES IN THE SCYLLA 1B, IMPLOSION HEATING, AND STAGED THETA PINCH EXPERIMENTS.
TIC, 1975. 12P. MN (LA-UR-74-1466)
GRIBBLE, ROBERT F. (CTR-7)
LINFORD, RULON K. (CTR-7)
THOMAS, KEITH S. (CTR-7)
ET AL

10-57
IMPLOSION MEASUREMENTS IN A HIGH VOLTAGE, LARGE DIAMETER, MEDIUM DENSITY THETA PINCH.
TIC, 1975. 5P. MN (LA-UR-75-1491)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1521. 1975.
HENINS, IVARS (CTR-5)
HAMMEL, JAY E. (CTR-5)
JARBOE, THOMAS R. (CTR-5)
MARSHALL, JOHN, JR. (CTR-DO)
SHERWOOD, ARTHUR R. (CTR-5)

10-58
INFLUENCE OF SELF FIELDS ON THE FILAMENTATION INSTABILITY IN RELATIVISTIC BEAM PLASMA SYSTEMS.
PHYS. FLUIDS, V.18, P.1040-4. 1975.
DAVIDSON, RONALD C. (***)
HUI, B. H.
KAPETANAKOS, C. A.

10-59
INFLUENCE OF SELF FIELDS ON THE VLASOV EQUILIBRIUM AND STABILITY PROPERTIES OF RELATIVISTIC ELECTRON BEAM - PLASMA SYSTEMS.
ANN. PHYS., V.94, P.209-42. 1975.
DAVIDSON, RONALD C. (***)
HUI, B. H.

10-60
INITIAL LASER PLASMA INTERACTION EXPERIMENTS IN THE SCYLLA I-C THETA PINCH.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1320. 1975.
ZIMMERMANN, EUGENE L. (CTR-3)
MC KENNA, KENNETH F. (CTR-3)
STARK, EUGENE E. (ADR)
FREESE, KENNETH B. (CTR-8)
ARMSTRONG, WILLIAM T. (CTR-3)

10-61
INITIAL VALUE PROBLEM IN RELATIVISTIC PLASMA.
IEEE TRANS. PLASMA SCI., V.PS-3, NO.4, P.185-93. 1975. (LA-UR-74-1715)*
GODFREY, BRENDAN B. (T-6)
NEWBERGER, BARRY S. (T-6)
TAGGART, KEITH A. (T-6)

10-62
INTENSE NEUTRON SOURCE FACILITY FOR THE FUSION ENERGY PROGRAM.
TIC, 1975. 51P. MN (LA-UR-75-1262)
ARMSTRONG, DALE D. (P-14)
EMIGH, C. ROBERT (P-14)
MEIER, KARL L. (P-14)
MEYER, EARL A. (P-14)
SCHNEIDER, J. DAVID (P-14)

10-63
ION COUPLING, ELECTRON HEATING, AND MAGNETIC TURBULENCE FROM PLASMA INSTABILITIES.
ABSTRACT PUBLISHED IN:
ATMOSPHERIC EFFECTS. 1973. SYMPOSIUM, SAN DIEGO, CA, ABSTRACTS OF PAPERS, P.18. DNA, 1973. (DNA-LA-10)
FORSLUND, DAVID W. (T-6)
KINDEL, JOSEPH M. (T-6)
LINDMAN, ERICK L. (J-10)

10-64
ION STAGE BUILDUP IN A THETA PINCH SEEDED WITH IRON.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1355. 1975.
THOMSON, DAVID B. (P-3)
JONES, LARRY A. (P-3)
KALLNE, ELISABETH (P-3)

10-65
ION TEMPERATURE MEASUREMENT BY LASER SCATTERING AT 2.8 MICRONS.
LASL, 1975. 9P. (LA-5895-MS)
DE SILVA, ALAN W. (CTR-DO)

10-66
ION TEMPERATURE MEASUREMENTS ON THE ZT-1 REVERSED FIELD PINCH.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1527. 1975.
HOWELL, ROBERT B. (CTR-2)
KARR, HUGH J. (CTR-2)
FORMAN, PETER R. (CTR-8)

10-67
KINETIC NONLOCAL ANALYSIS OF CROSS FIELD INSTABILITIES IN THETA PINCH PLASMAS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1357. 1975.
GLADD, N. THOMAS (CTR-6)
ET AL

10-68
LASER - PLASMA INTERACTIONS IN THE SCYLLA I-C EXPERIMENT: PRELIMINARY ANALYSIS.
LASL, 1975. 19P. (LA-5957-MS)
YORK, THOMAS M.
MC KENNA, KENNETH F. (CTR-3)

10-69
LASER PLASMA INTERACTION IN THE SCYLLA I-C THETA PINCH.
TIC, 1975. 5P. MN (LA-UR-75-1573)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1525. 1975.
MC KENNA, KENNETH F. (CTR-3)
ZIMMERMANN, EUGENE L. (CTR-3)
FREESE, KENNETH B. (CTR-8)

10-70
LASL CONTROLLED THERMONUCLEAR RESEARCH PROGRAM, JANUARY - DECEMBER 1974.
LASL, 1975. 236P. (LA-6044-PR)
RIBE, FRED L. (CTR-DO) COMP.

10-71
LASL REVERSED FIELD PINCH PROGRAM PLAN.
LASL, 1975. 19P. (LA-6177-MS)
BAKER, DON A. (CTR-2) COMP.
DI MARCO, JOSEPH N. (CTR-2) COMP.

10-72
LINEAR THETA PINCH AS A 14 NEUTRON SOURCE.
TIC, 1975. 6P. MN (LA-UR-75-1566)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1532. 1975.
ELLIS, WILLIAM R., JR. (CTR-3)

10-73
LINEAR THETA PINCH FERF.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1345-6. 1975.
ELLIS, WILLIAM R., JR. (CTR-3)

10-74
LINEAR THETA PINCH NEUTRON SOURCE.
TIC, 1975. 46P. MN (LA-UR-75-1217)
ELLIS, WILLIAM R., JR. (CTR-3)

10-75
LTPF: A LINEAR THETA PINCH NEUTRON SOURCE.
LASL, 1975. 44P. (LA-6032-MS)
ELLIS, WILLIAM R., JR. (CTR-3)

10-76
MAGNETIC ENERGY STORAGE SYSTEM USED IN ZT-1.
TIC, 1975. 5P. MN (LA-UR-75-137)
BURKHARDT, LOUIS C. (CTR-2)
DIKE, ROBERT S. (CTR-4)
DI MARCO, JOSEPH N. (CTR-2)
PHILLIPS, JAMES A. (ENERGY OFF)
HAARMAN, ROY A. (CTR-4)
SCHOFIELD, ALDRED E. (CTR-4)

10-77
MAGNETIC FIELD AND PLASMA DENSITY MEASUREMENTS IN THE STAGED THETA PINCH EXPERIMENT.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1371. 1975.
LITTLE, EDWARD M. (CTR-7)
JACOBSON, ABRAM R. (CTR-7)
BUCHENAUER, C. JERALD (CTR-7)
MC KINSTRY, MARK L. (CTR-7)

10-78
MAGNETOHYDRODYNAMIC STABILITY OF A SHARP BOUNDARY MODEL OF TOKAMAK.
PHYS. FLUIDS, V.18, P.1494-506. 1975.
(LA-UR-75-416)*
FREIDBERG, JEFFREY P. (CTR-6)
GROSSMANN, WILLIAM, JR. (CTR-6)

10-79
MEASUREMENT OF FARADAY ROTATION IN IHX.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1320. 1975.
JARBOE, THOMAS R. (CTR-5)

10-80
MHD SPECTRUM OF DIFFUSE TOKAMAK EQUILIBRIA.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.941. 1974.
GOEDBLOED, JOHAN P. (CTR-6)

10-81
MHD STABILITY OF THE SCYLLAC CONFIGURATION.
TIC, 1975. 13P. MN (LA-UR-74-1446)
BERGE, GERHARD (CTR-6)
FREIDBERG, JEFFREY P. (CTR-6)

10-82
MOTION OF A PLASMA COLUMN IN A PERTURBING MAGNETIC FIELD.
PHYS. FLUIDS, V.18, P.1704-9. 1975.
(LA-UR-75-617)*
MILLER, GUTHRIE (CTR-3)

10-83
NET APPLICATIONS IN CTR ENGINEERING.
TIC, 1975. 6P. MN (LA-UR-74-1603)
ALSO PUBLISHED IN:
CUBE. 1974. SYMPOSIUM, LIVERMORE, CA. PROC., P.262-7. TIC, 1975.
(CONF-741001)
BOICOURT, GRENFELL P. (CTR-4)
HAMMEL, JAY E. (CTR-5)

10-84
NEUTRON ENERGY DEPENDENCE OF DEFECT PRODUCTION CROSS SECTIONS IN COPPER AND ALUMINUM.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.351. 1975.
PARKIN, DON M. (CMB-8)
GREEN, WALTER V. (CMB-8)

10-85
NONLOCAL ANALYSIS OF CROSS FIELD INSTABILITIES IN THETA PINCHES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1519-20. 1975.
BATCHELOR, D. B.
DAVIDSON, RONALD C. (CTR-6)
GLADD, N. THOMAS (CTR-6)

10-86
NUCLEONIC DESIGN SENSITIVITY ANALYSIS FOR THE REFERENCE THETA PINCH REACTOR (RTPR).
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.43-4. 1975.
SIMMONS, EARL L. (T-1)
DUDZIAK, DONALD J. (T-1)
GERSTL, S. A. W. (T-1)

10-87
NUMERICAL MODELING OF MAGNETIC IMPLOSION HEATING AND FIELD DIFFUSION IN PINCHES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1279. 1975.
NIELSON, CLAIR W. (CTR-6)

10-88
NUMERICAL SIMULATION OF THE LOWER HYBRID DRIFT INSTABILITY.
TIC, 1975. 5P. MN (LA-UR-75-1506)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1502. 1975.
HEWETT, DENNIS W. (CTR-6)
WINSKE, DAN (CTR-6)

10-89
NUMERICAL SIMULATION OF THE LOWER HYBRID DRIFT INSTABILITY.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1306-7. 1975.
HEWETT, DENNIS W. (CTR-6)
WINSKE, DAN (CTR-6)

10-90
NUMERICAL STUDIES OF THE LINEAR THETA PINCH.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1525. 1975.
BRACKBILL, JEREMIAH U. (CTR-6)
MENZEL, MARY T. (CTR-6)
BARNES, DANIEL C. (CTR-6)

10-91
OBLIQUE SHOCKS IN A MAGNETIZED PLASMA.
ABSTRACT PUBLISHED IN:
ATMOSPHERIC EFFECTS. 1973. SYMPOSIUM, SAN DIEGO, CA. ABSTRACTS OF PAPERS, P.17. DNA, 1973. (DNA-LA-10)
FORSLUND, DAVID W. (T-6)
KINDEL, JOSEPH M. (T-6)
LINDMAN, ERICK L. (J-10)

10-92
ON THE SPECTRUM OF THE INHOMOGENEOUS VLASOV EQUATION.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1342. 1975.
SYMON, KEITH R. (CTR-6)

10-93
ON-LINE PLASMA BETA CALCULATION.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1344. 1975.
AMSDEN, ROSEMARY C. (CTR-8)
FREESE, KENNETH B. (CTR-8)
JAHODA, FRANZ C. (CTR-8)

10-94
OPTICAL DIAGNOSTICS OF THE SCYLLAC CTR DEVICE: A CASE STUDY.
ABSTRACT PUBLISHED IN:
J. OPT. SOC. AM., V.65, P.1198. 1975.
JAHODA, FRANZ C. (CTR-8)

10-95
OPTICAL DIAGNOSTICS ON SCYLLAC.
TIC, 1975. 5P. MN (LA-UR-75-1519)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1518. 1975.
FREESE, KENNETH B. (CTR-8)
JAHODA, FRANZ C. (CTR-8)
KRISTAL, RICHARD (CTR-8)
SEIBEL, FREDERICK T. (CTR-8)
SIEMON, RICHARD E. (CTR-8)

10-96
ORIGIN OF AXIAL CURRENT IN SCYLLAC.
LASL, 1975. 4P. (LA-6178-MS)
SUGISAKI, KIWAMU (CTR-3)

10-97
PARTIAL CHRONOLOGY OF Z PINCH STUDIES AT LOS ALAMOS SCIENTIFIC LABORATORY, 1952-1975.
LASL, 1975. 11P. (LA-5922-H)
BURKHARDT, LOUIS C. (CTR-2)

10-98
PLASMA EQUILIBRIUM DISTORTIONS IN THE SCYLLAC SECTOR.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1344. 1975.
FREEMAN, BRUCE L. (CTR-3)
CANTRELL, EMMETT L. (CTR-3)
FREESE, KENNETH B. (CTR-8)

10-99
PLASMA EQUILIBRIUM IN THE SCYLLAC FEEDBACK SECTOR.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1344. 1975.
ELLIS, WILLIAM R., JR. (CTR-3)
FREESE, KENNETH B. (CTR-8)
SIEMON, RICHARD E. (CTR-8)

10-100
PLASMA EXPERIMENTS IN THE SCYLLAC TOROIDAL THETA PINCH.
TIC, 1975. 10P. MN (LA-UR-74-1549)
CANTRELL, EMMETT L. (CTR-3)
ELLIS, WILLIAM R., JR. (CTR-3)
ET AL

10-101
PLASMA EXPERIMENTS ON THE HIGH DENSITY SCYLLA I-C THETA PINCH.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1345. 1975.
MC KENNA, KENNETH F. (CTR-3)
ZIMMERMANN, EUGENE L. (CTR-3)
ARMSTRONG, WILLIAM T. (CTR-3)

10-102
PLASMA PARAMETERS AND STABILITY OF THE ZT-1 PINCH EXPERIMENT.
TIC, 1975. 12P. MN (LA-UR-74-1520)
BAKER, DON A. (CTR-2)
BURKHARDT, LOUIS C. (CTR-2)
DI MARCO, JOSEPH N. (CTR-2)
FORMAN, PETER R. (CTR-8)
HABERSTICH, ALBERT (CTR-2)
HOWELL, ROBERT B. (CTR-2)
KARR, HUGH J. (CTR-2)
PHILLIPS, JAMES A. (CTR-6)
SCHOFIELD, ALDRED E. (CTR-2)

10-103
PLASMA TEMPERATURE MEASUREMENTS ON THE ZT-1 PINCH.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1297-8. 1975.
KARR, HUGH J. (CTR-2)
FORMAN, PETER R. (CTR-8)
HOWELL, ROBERT B. (CTR-2)

10-104
POST-IMPLOSION ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1520. 1975.
DAVIDSON, RONALD C. (CTR-6)
GERWIN, RICHARD A. (CTR-6)
GLADD, N. THOMAS (CTR-6)

10-105
POST-IMPLOSION ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYERID DRIFT INSTABILITY.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1371. 1975.
GERWIN, RICHARD A. (CTR-6)
GLADD, N. THOMAS (CTR-6)
ET AL

10-106
PRESSURE PROFILES IN A THERMONUCLEAR PLASMA SHEATH CONTAINING ENERGETIC ALPHA PARTICLES.
NUCL. FUSION, V.15, P.671-5. 1975.
(LA-UR-75-84)*
ENOCH, JACOB (CTR-6)

10-107
PROGRAMMING AND STABILITY OF THE ZT-1 EXPERIMENT.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1297. 1975.
DI MARCO, JOSEPH N. (CTR-2)
HABERSTICH, ALBERT (CTR-2)
ORTOLANI, SERGIO (CTR-2)

10-108
PROPOSAL FOR THE CONSTRUCTION OF THE STAGED SCYLLAC PROTOTYPE.
LASL, 1975. 43P. (LA-5966-P)
NUNNALLY, WILLIAM C. (CTR-4)
MC DONALD, THOMAS E. (CTR-4)

10-109
PROSPECTS FOR CONVERTING THORIUM -232 TO URANIUM -233 IN A LINEAR THETA PINCH HYBRID REACTOR (LTPHR).
TIC, 1975. 97P. MN (LA-UR-74-1861)
ALSO PUBLISHED IN:
DCTR FUSION-FISSION ENERGY SYSTEMS REVIEW. 1974. MEETING, GERMANTOWN, MD. PAPERS, P.249-315. ERDA, 1975.
(ERDA-4)
KRAKOWSKI, ROBERT A. (CTR-7)
DUDZIAK, DONALD J. (T-1)
OLIPHANT, THOMAS A., JR. (CTR-7)
THOMASSEN, KEITH I. (CTR-7)
BOSLER, GERALD E. (T-1)
RIBE, FRED L. (CTR-DO)

10-110
RADIAL PLASMA STRUCTURE DURING A THETA PINCH IMPLOSION: FLUTE INSTABILITIES.
PHYS. FLUIDS, V.18, P.1371-3. 1975.
(LA-UR-74-1742)*
MC KENNA, KENNETH F. (CTR-3)
KRISTAL, RICHARD (CTR-3)
ZIMMERMANN, EUGENE L. (CTR-3)

10-111
RADIOACTIVITY INDUCED IN A THETA PINCH FUSION REACTOR.
NUCL. TECH., V.25, P.32-55. 1975.
(LA-UR-74-826)*
DUDZIAK, DONALD J. (T-2)
KRAKOWSKI, ROBERT A. (CTR-7)

10-112
REPORT OF THE AD HOC COMMITTEE ON FUSION PLASMA RESEARCH FACILITIES.
ERDA, 1975. 34P. (ERDA-106)
DECKER, JAMES F.
JAHODA, FRANZ C. (CTR-8)
ET AL

10-113
RESONANT HEATING EXPERIMENT.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1371-2. 1975.
PLATTS, D. A. (CTR-7)
LINFORD, RULON K. (CTR-7)

10-114
RESULTS FROM THE LASL IMPLOSION HEATING EXPERIMENT.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1370. 1975.
SHERWOOD, ARTHUR R. (CTR-5)

10-115
REVIEW OF TOROIDAL THETA PINCH THEORY
TIC, 1975. 25P. MN (LA-UR-75-1667)
DAVIDSON, RONALD C. (CTR-6)
FREIDBERG, JEFFREY P. (CTR-6)

10-116
ROLE OF FAST DISCHARGING HOMOPOLAR MACHINES IN FUSION DEVICES.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.9-10. 1975.
SWANNACK, CLARKE E. (CTR-9)
THOMASSEN, KEITH I. (CTR-DO)
WELDON, DAVID M. (CTR-9)
ET AL

10-117
SCYLLA IV-P LINEAR THETA PINCH.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1345. 1975.
MACHALEK, MILTON D. (CTR-3)
BAILEY, ARTHUR G. (CTR-4)
QUINN, WARREN E. (CTR-3)

10-118
SCYLLAC DERATED FEEDBACK SECTOR EXPERIMENTS.
TIC, 1975. 5P. MN (LA-UR-75-885)
CANTRELL, EMMETT L. (CTR-3)
ELLIS, WILLIAM R., JR. (CTR-3)
ET AL

10-119
SCYLLAC FEEDBACK STABILIZATION EXPERIMENTS.
TIC, 1975. 5P. MN (LA-UR-75-1541)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1518. 1975.
CANTRELL, EMMETT L. (CTR-3)
ELLIS, WILLIAM R., JR. (CTR-3)
FREEMAN, BRUCE L. (CTR-3)
GRIBBLE, ROBERT F. (CTR-3)
GUTSCHER, WILLIAM D. (E-4)
JOHNSON, KENDAHL J. (CTR-4)
KUTAC, KENNETH J. (CTR-4)
MILLER, GUTHRIE (CTR-3)
QUINN, WARREN E. (CTR-3)

10-120
SCYLLAC FEEDBACK STABILIZATION.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1345. 1975.
GRIBBLE, ROBERT F. (CTR-3)
BARTSCH, ROBERT R. (CTR-3)
KUTAC, KENNETH J. (CTR-4)
MILLER, GUTHRIE (CTR-3)

10-121
SCYLLAC FUSION TEST REACTOR DESIGN.
TIC, 1975. 5P. MN (LA-UR-75-1502)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20,
P.1531-2. 1975.
LINFORD, RULON K. (CTR-7)
OLIPHANT, THOMAS A., JR. (T-3)
THOMASSEN, KEITH I. (CTR-DOT)

10-122
SCYLLAC SECTOR EXPERIMENTS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20,
P.1344. 1975.
QUINN, WARREN E. (CTR-3)
CANTRELL, EMMETT L. (CTR-3)
FREEMAN, BRUCE L. (CTR-3)
GUTSCHER, WILLIAM D. (E-4)
JOHNSON, KENDAHL J. (CTR-4)
KRISTAL, RICHARD (CTR-8)

10-123
SCYLLAC SECTOR RESULTS WITH PROGRAMMED L=0 AND L=2 AUXILIARY FIELDS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20,
P.1345. 1975.
CANTRELL, EMMETT L. (CTR-3)
BARTSCH, ROBERT R. (CTR-3)
FREEMAN, BRUCE L. (CTR-3)
MILLER, GUTHRIE (CTR-3)
QUINN, WARREN E. (CTR-3)

10-124
SHIELDING AND ACTIVATION OF A THETA PINCH FUSION TEST REACTOR (TPFTR).
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21, P.29-30.
1975.
DUDZIAK, DONALD J. (T-1)
GERSTL, S. A. W. (T-1)

10-125
SLOWING-IN DISTRIBUTION OF FAST PARTICLES RELEASED IN MAXWELLIAN PLASMA.
LASL, 1975. 19P. (LA-5988)
HUSSEINY, A. A.
SABRI, Z. A.
HARRIS, DONALD R., JR. (T-2)

10-126
SPECTRAL OBSERVATION OF ELECTROMAGNETIC WAVE DECAY DUE TO THE OTS AND DECAY PARAMETRIC INSTABILITIES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20,
P.1361. 1975.
INGRAHAM, JOHN C. (CTR-1)
DREICER, HARRY (CTR-DO)
ELLIS, RICHARD F.

10-127
SPECTRUM OF IDEAL MAGNETOHYDRODYNAMICS OF AXISYMMETRIC TOROIDAL SYSTEMS.
PHYS. FLUIDS, V.18, P.1258-68. 1975.
(LA-UR-75-239)*
GOEDBLOED, JOHAN P. (CTR-6)

10-128
STABILITY ANALYSIS OF SHARP BOUNDARY VLASOV FLUID SCREW PINCH EQUILIBRIA.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20,
P.1520. 1975.
LEWIS, H. RALPH, JR. (CTR-6)
TURNER, LEAF (CTR-6)

10-129
STABILITY ANALYSIS OF SHARP BOUNDARY VLASOV FLUID SCREW PINCH EQUILIBRIA.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20,
P.1342-3. 1975.
LEWIS, H. RALPH, JR. (CTR-6)
TURNER, LEAF (CTR-6)

10-130
STABILITY AND DIFFUSION OF THE ZT-1 REVERSED FIELD PINCH.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20,
P.1522. 1975.
HABERSTICH, ALBERT (CTR-2)
BAKER, DON A. (CTR-2)
DI MARCO, JOSEPH N. (CTR-2)
MANN, LAWRY W. (CTR-6)
ORTOLANI, SERGIO (CTR-2)

10-131
STABILITY AND TEMPERATURE MEASUREMENTS ON ZT-1.
TIC, 1975. 5P. MN (LA-UR-75-864)
BAKER, DON A. (CTR-2)
BURKHARDT, LOUIS C. (CTR-2)
DI MARCO, JOSEPH N. (CTR-2)
HABERSTICH, ALBERT (CTR-2)
HOWELL, ROBERT B. (CTR-2)
KARR, HUGH J. (CTR-2)
ORTOLANI, SERGIO (CTR-2)
SCHOFIELD, ALDRED E. (CTR-2)
FORMAN, PETER R. (CTR-8)

10-132
STABILITY OF A CLOSED LINE SCYLLAC CONFIGURATION.
NUCL. FUSION, V.15, P.605-10. 1975.
(LA-UR-75-256)*
FREIDBERG, JEFFREY P. (CTR-6)
GERWIN, RICHARD A. (CTR-6)

10-133
STABILITY OF A DIFFUSE, HIGH BETA, L = 1 SYSTEM.
PHYS. FLUIDS, V.18, P.1362-70. 1975.
(LA-UR-75-863)*
BERGE, GERHARD (CTR-6)
FREIDBERG, JEFFREY P. (CTR-6)

10-134
STABILITY OF KINK MODES IN HIGH BETA TOKAMAKS.
PLASMA PHYSICS AND CONTROLLED NUCLEAR FUSION RESEARCH. 1974. 5TH INTERNATIONAL CONFERENCE, TOKYO:
PROC., V.1, P.505-15. IAEA, 1975.
(IAEA-CN-33/A13-4)
(537:C748PR 5TH V.1)
FREIDBERG, JEFFREY P. (Q-7)
GROSSMANN, WILLIAM, JR. (Q-6)
HAAS, FREDERICK A. (Q-6)

10-135
STABILITY OF KINK MODES IN HIGH BETA TOKAMAKS.
TIC, 1975. 17P. MN (LA-UR-74-1447)
BERGE, GERHARD (CTR-6)
FREIDBERG, JEFFREY P. (CTR-6)

10-136
STABILITY OF THE REVERSED FIELD PINCH CONFIGURATION TO LOCALIZED PERTURBATIONS
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1297. 1975.
BAKER, DON A. (CTR-2)
MANN, LAWRY W. (CTR-6)

10-137
STAGED THETA PINCH EXPERIMENT.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1371. 1975.
DOWNING, JAMES N., JR. (CTR-7)
HAMMER, CHARLES F. (CTR-7)
THOMAS, KEITH S. (CTR-7)

10-138
STAGED THETA PINCH EXPERIMENTS.
TIC, 1975. 5P. MN (LA-UR-75-905)
LINFORD, RULON K. (CTR-7)
DOWNING, JAMES N., JR. (CTR-7)
GRIBBLE, ROBERT F. (CTR-7)
JACOBSON, ABRAM R. (CTR-7)
PLATTS, D. A. (CTR-7)
THOMAS, KEITH S. (CTR-7)

10-139
STAGED THETA PINCH EXPERIMENTS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1521. 1975.
LINFORD, RULON K. (CTR-7)
DOWNING, JAMES N., JR. (CTR-7)
GRIBBLE, ROBERT F. (CTR-3)
JACOBSON, ABRAM R. (CTR-7)
PLATTS, D. A. (CTR-7)
THOMAS, KEITH S. (CTR-7)

10-140
STRUCTURAL ENDURANCE CONSTRAINTS FOR HIGH FIELD THETA PINCH COILS.
COILS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.20-1. 1975.
BARTHOLOMEW, ROBERT J. (ENG-7)
KRAKOWSKI, ROBERT A. (CTR-DOT)

10-141
SUPERSONIC FLOW RESULTING FROM THE INTERACTION OF A HIGH FREQUENCY CAPACITOR OR ELECTROMAGNETIC FIELD WITH AN EXPANDING PLASMA.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1378. 1975.
LEE, KENNETH (T-6)
FORSLUND, DAVID W. (T-6)
KINDEL, JOSEPH M. (T-6)
LINDMAN, ERICK L. (T-6)

10-142
SYMBOLIC COMPUTATION IN CONTROLLED THERMONUCLEAR RESEARCH.
ERDA, 1975. 12P. (ERDA-115)
BERS, ABRAHAM
BYERS, JACK
GRIMM, RAYMOND
LEWIS, H. RALPH, JR. (CTR-6)
ET AL

10-143
SYNCHROTRON RADIATION SPECTRUM FOR A RELATIVISTIC PLASMA COLUMN.
PHYS. FLUIDS, V.18, P.1143-50. 1975.
DAVIDSON, RONALD C. (***)

10-144
THEORY AND SIMULATION OF THE PARAMETRIC DECAY OF WHISTLER SOLITARY WAVES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1375. 1975.
RUDSINSKI, LAWRENCE E. (C-3)
GITOMER, STEVEN J. (T-6)
FORSLUND, DAVID W. (T-6)
KINDEL, JOSEPH M. (T-6)

10-145
THERMAL CONDUCTION ALONG STRAIGHT THETA PINCHES AND PLASMA COLUMNS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1358. 1975.
DREICER, HARRY (CTR-DO)

10-146
THERMONUCLEAR FUSION.
REPORT OF THE GOVERNOR'S TASK FORCE COMMITTEE ON NUCLEAR ENERGY, P.II-16-28. BUREAU OF ENGINEERING RESEARCH, UNM, 1975. (338:N532R)
KRAKOWSKI, ROBERT A. (CTR-7)
RIBE, FRED L. (CTR-DO)

10-147
THETA PINCH FUSION TEST REACTOR.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21, P.28-9. 1975.
THOMASSEN, KEITH I. (CTR-DO)

10-148
THETA PINCH TOROIDAL REACTOR.
PULSED FUSION REACTORS. 1974.
INTERNATIONAL SCHOOL OF FUSION REACTOR TECHNOLOGY, ERICE-TRAPANI, SICILY. PROC., P.246-76. PERGAMON, 1975. (537:P982 F)
RIBE, FRED L. (CTR-DO)

10-149
TIME DEPENDENT CALCULATIONS OF EQUILIBRIUM AND STABILITY PROBLEMS IN SCYLLAC AND TOKAMAK GEOMETRIES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1518. 1975.
BRACKBILL, JEREMIAH U. (CTR-6)
BARNES, DANIEL C. (CTR-6)

10-150
TOROIDAL MODE STRUCTURE IN THE SCYLLAC FULL TORUS.
LASL, 1975. 4P. (LA-5853-MS)
JAHODA, FRANZ C. (CTR-8)
KRISTAL, RICHARD (CTR-8)
QUINN, WARREN E. (CTR-3)

10-151
TRANSIENT CHARGE EXCHANGE EFFECTS IN A NEUTRAL GAS LAYER.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1317. 1975.
OLIPHANT, THOMAS A., JR. (T-3)
GRYCZKOWSKI, GERARD E. (CTR-DOT)

10-152
TRANSIENT FLOW AND EXPANSION OF A PINCH DISCHARGE PLASMA IN SELF INDUCED MAGNETIC FIELDS.
PLASMA PHYS., V.17, P.1-14. 1975.
(LA-UR-74-463)*
MC KENNA, KENNETH F. (Q-3)
YORK, THOMAS M.

10-153
TWO DIMENSIONAL STABILITY OF AN ELECTROMAGNETIC WAVE OBLIQUELY INCIDENT ON A NONUNIFORM PLASMA.
PHYS. REV. LETT., V.34, P.193-7. 1975.
(LA-UR-74-1628)*
FORSLUND, DAVID W. (T-6)
KINDEL, JOSEPH M. (T-6)
LEE, KENNETH (T-6)
LINDMAN, ERICK L. (T-6)

10-154
USE OF LITHIUM (DEUTERON,NEUTRON) NEUTRONS FOR SIMULATION OF RADIATION EFFECTS IN FUSION REACTORS.
IEEE TRANS. NUCL. SCI., V.NS-22, P.1776-9. 1975.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.209. 1975.
GOLAND, ALLEN N.
PARKIN, DON M. (CMB-8)
ET AL

10-155
VLASOV FLUID MODEL WITH ELECTRON PRESSURE.
LASL, 1975. 13P. (LA-6130-MS)
GERWIN, RICHARD A. (CTR-6)

10-156
XPECT: A MONTE CARLO PROGRAM TO PREDICT THE EXPECTED TIME TO NEXT FAILURE IN CONTROLLED THERMONUCLEAR RESEARCH SYSTEMS.
LASL, 1975. 36P. (LA-5980)
BOICOURT, GRENFELL P. (CTR-4)

11. EARTH SCIENCE AND ENGINEERING

11-1
ADDITIONAL NOTE ON THE ISOTOPIC COMPOSITION OF STRONTIUM IN MCCARTYS FLOW, VALENCIA COUNTY, NEW MEXICO.
EARTH PLANET. SCI. LETT., V.25, P.327-30, 1975.
BROOKINS, D. G.
CARDEN, J. R.
LAUGHLIN, A. WILLIAM (***)

11-2
ALBITE ALTERATION IN A SODIUM CARBONATE SOLUTION.
ABSTRACT PUBLISHED IN:
EOS, V.56, P.1075, 1975.
CHARLES, ROBERT W. (CNC-11)
ROGERS, PAMELA S. Z. (CMB-8)
HERRICK, CLAUDE C. (CMB-8)

11-3
ANALYSIS OF GEOTHERMAL POWER PLANT WATER USING GAMMA RAYS FROM CAPTURE OF CALIFORNIUM -252 NEUTRONS.
NUCL. TECHNOL., V.27, P.488-99, 1975.
DUFFEY, DICK
BALAGNA, JOHN P., JR. (***)
WIGGINS, P. F.

11-4
APPARATUS AND METHOD FOR LARGE TUNNEL EXCAVATION IN HARD ROCK.
FILED 1974, PATENTED MAY 27, 1975.
(U. S. PATENT 3,885,832)
ALTSEIMER, JOHN H. (Q-23)
HANOLD, ROBERT J. (Q-23)

11-5
CAVITY STABILITY: FINITE ELEMENT ANALYSIS FOR STEADY AND TRANSIENT CREEP.
LASL, 1975, 20P. (LA-5769)
ANDERSON, CHARLES A. (WX-3)

11-6
CHARACTERIZATION OF ROCK MELTS AND GLASSES FORMED BY EARTH MELTING SUBTERRENES.
LASL, 1975, 13P. (LA-5826-MS)
LUNDBERG, LYNN B. (Q-23)

11-7
CHEMICAL CORROSION OF MOLYBDENUM AND TUNGSTEN IN LIQUID BASALT, TUFF, AND GRANITE WITH APPLICATION TO SUBTERRENE PENETRATORS.
LASL, 1975, 21P. (LA-5857-MS)
STARK, WALTER A., JR. (CMB-3)
KRUPKA, MILTON C. (CMB-3)

11-8
CINDER CONE SEPARATION DISTANCES: IMPLICATIONS FOR THE DEPTH OF FORMATION OF GABBROIC XENOLITHS.
ABSTRACT PUBLISHED IN:
EOS, V.56, P.1070, 1975.
MC GETCHIN, THOMAS R. (Q-21)
SETTLE, MARK

11-9
CRITICAL BOREHOLE PRESSURE FOR A VERTICAL HYDRAULIC CRACK IN THE PRESENCE OF TWO PRINCIPAL TOTAL STRESSES.
LASL, 1975, 5P. (LA-6115-MS)
HSU, Y. C. (Q-DO)

11-10
CURRENT STATUS OF THE LOS ALAMOS DRY HOT ROCK GEOTHERMAL ENERGY EXPERIMENT.
ABSTRACT PUBLISHED IN:
ECON. GEOL., V.70, P.1323, 1975.
LAUGHLIN, A. WILLIAM (Q-22)
PETTITT, ROLAND A. (Q-22)
WEST, FRANCIS G. (Q-22)

11-11
DECAY CHARACTERISTICS OF SOIL THERMOLUMINESCENCE.
SOIL SCI., V.119, P.259-68, 1975.
MOORE, ROGER H. (C-5)
BECKMAN, RICHARD J. (C-5)
NISHITA, N.
HAMILTON, M.

11-12
DETERMINATION OF PERMEABILITY OF GRANITIC ROCKS IN GT-2 FROM HYDRAULIC FRACTURING DATA.
LASL, 1975, 5P. (LA-6169-MS)
DELISLE, GEORG (Q-22)

11-13
DRY HOT ROCK SYSTEMS.
TIC, 1975, 10P. MN (LA-UR-75-1126)
SMITH, MORTON C. (Q 22)

11-14
ENVIRONMENTAL GEOLOGY IN DEVELOPMENT OF NUCLEAR ENERGY.
ABSTRACT PUBLISHED IN:
BULL. AM. ASSOC. PET. GEOL., V.59, P.921, 1975.
ROGERS, MARGARET ANNE (H-8)
JOHNSON, LAMAR J. (H-8)

11-15
FAULT ACTIVITY AND SEISMICITY NEAR THE LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST SITE, JEMEZ MOUNTAINS, NEW MEXICO.
LASL, 1975. 26P. (LA-5911-MS)
SLEMMONS, DAVID B. (DIR OFF)

11-16
FOCAL MECHANISM OF THE DULCE, NEW MEXICO, EARTHQUAKE ON JANUARY 23, 1966.
ABSTRACT PUBLISHED IN:
EOS, V.56, P.1022, 1975.
CASH, DANIEL J. (J-9)

11-17
FORCED OSCILLATIONS OF THE LOS ALAMOS SCIENTIFIC LABORATORY'S DRY HOT ROCK GEOTHERMAL RESERVOIR.
LASL, 1975. 6P. (LA-6170-MS)
HSU, Y. C. (Q-22)

11-18
GEOCHEMICAL IDENTIFICATION OF THE BRINE SOURCE OF THE SABKHAT AR-RIYAS, SAUDI ARABIA.
ABSTRACT PUBLISHED IN:
BULL. N. MEX. ACAD. SCI., V.15, NO.2, P.1-2. 1975.
RAMSAY, JOHN B. (M-3)
JOHNSON, DONALD H.
KAMAL, MARWAN R.
PIERSON, GARY O.

11-19
GEOPHYSICAL LOGGING IN LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST HOLE NO.2.
LASL, 1975. 12P. (LA-6112-MS)
WEST, FRANCIS G. (Q-22)
KINTZINGER, PAUL R. (Q-22)
LAUGHLIN, A. WILLIAM (Q-22)

11-20
GEOTHERMAL ENERGY PROJECTS AT LASL.
ABSTRACT PUBLISHED IN:
BULL. N. MEX. ACAD. CI., V.15, NO.2, P.19. 1975.
SMITH, MORTON C. (Q-22)

11-21
GEOTHERMAL ENERGY.
GEOTIMES, V.20, NO.3, P.20-1, MARCH 1975.
LAUGHLIN, A. WILLIAM (Q-22)

11-22
GEOTHERMAL ENERGY: HOT DRY ROCK TECHNOLOGY.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21, P.142. 1975.
SMITH, MORTON C. (Q-22)

11-23
GEOTHERMAL RESERVOIR MODELS: CRACK PLANE MODEL.
LASL, 1975. 18P. (LA-5947-MS)
MC FARLAND, ROBERT D. (Q-22)

11-24
HYDROLOGIC TESTING GEOTHERMAL TEST HOLE NO.2.
LASL, 1975. 8P. (LA-6017-MS)
WEST, FRANCIS G. (Q-22)
KINTZINGER, PAUL R. (Q-22)
PURTYMUN, WILLIAM D. (H-8)

11-25
LABORATORY AND NUMERICAL STUDIES OF WATER - GRANITE INTERACTIONS AT ELEVATED TEMPERATURE AND PRESSURE.
ABSTRACT PUBLISHED IN:
BULL. N. MEX. ACAD. SCI., V.15, NO.2, P.21-2. 1975.
BALAGNA, JOHN P., JR. (CNC-11)
CHARLES, ROBERT W. (CNC-11)
HERRICK, CLAUDE C. (CMB-8)

11-26
MAGMA CONTAMINATION WITHIN THE VOLCANIC PILE: ORIGIN OF ANDESITE AND DACITE: COMMENT AND REPLY.
GEOLOGY, V.3, P.164-8. 1975.
EICHELBERGER, JOHN C. (Q-21)

11-27
MAN-MADE GEOTHERMAL RESERVOIRS.
TIC, 1975. 28P. MN (LA-UR-75-953)
SMITH, MORTON C. (Q-22)
AAMODT, R. LEE (Q-22)
POTTER, ROBERT M. (Q-22)
BROWN, DONALD W. (Q-22)

11-28
MANTLE PROCESSES BENEATH HAWAII.
ABSTRACT PUBLISHED IN:
EOS, V.56, P.1077-8. 1975.
REID, JOHN B., JR. (Q-21)
BERMAN, ROBERT G.

11-29
MECHANISM OF CALDERA FORMING ASH BLAST ERUPTIONS.
ABSTRACT PUBLISHED IN:
BULL. N. MEX. ACAD. SCI., V.15, NO.2, P.24-5. 1975.
MC GETCHIN, THOMAS R. (Q-21)

11-30
MODEL FOR PREDICTING THE REDISTRIBUTION OF PARTICULATE CONTAMINANTS FROM SOIL SURFACES.
LASL, 1975. 63P. (LA-6035-MS)
TRAVIS, JOHN R. (T-3)

11-31
MONZO-GRANITE ALTERATION IN A HYDROTHERMAL SYSTEM.
ABSTRACT PUBLISHED IN:
EOS, V.56, P.913. 1975.
CHARLES, ROBERT W. (CNC-11)
BALAGNA, JOHN P., JR. (CNC-11)

11-32
MT BAKER 11 APRIL TO 1 JULY 1975.
EG+G, 1975. 31P. (EGG-1183-5058)
EICHELBERGER, JOHN C. (Q-21)
KEADY, CHARLES J.
WRIGHT, DONALD

11-33
NEW AND MORE ACCURATE METHOD FOR THE DIRECT MEASUREMENTS OF EARTH TEMPERATURE GRADIENTS IN DEEP BOREHOLES.
TIC, 1975. 17P. MN (LA-UR-75-952)
ALBRIGHT, JAMES N. (Q-22)

11-34
NUMERICAL STUDIES OF THE THERMAL EVOLUTION OF INTRUSIONS IN RELATIONSHIP TO OBSERVED TEMPERATURES IN GT-2.
ABSTRACT PUBLISHED IN:
BULL. N. MEX. ACAD. SCI., V.15, NO.2, P.25. 1975.
KOLSTAD, CHARLES D. (ENERGY OFF)
ALBRIGHT, JAMES N. (Q-22)
MC GETCHIN, THOMAS R. (Q-21)

11-35
ORIGIN OF ANDESITE AND DACITE: EVIDENCE OF MIXING AT GLASS MOUNTAIN IN CALIFORNIA AND OTHER CIRCUM-PACIFIC VOLCANOES.
GEOL. SOC. AM. BULL., V.86, P.1381-91. 1975. (LA-UR-75-532)*
EICHELBERGER, JOHN C. (Q-21)

11-36
PANEL ON GEOTHERMAL ENERGY.
THERMODYNAMICS AND NATIONAL ENERGY PROBLEMS. 1974. CONFERENCE, WARRENTON, VA. REPORT, P.255-78. NAS, 1974. (333:T411N)
FOURNIER, ROBERT O.
HERRICK, CLAUDE C. (CMB-8)

11-37
PERMEABILITY OF A MONZO-GRANITE AT ELEVATED TEMPERATURE.
ABSTRACT PUBLISHED IN:
EOS, V.56, P.913. 1975.
BALAGNA, JOHN P., JR. (CNC-11)
CHARLES, ROBERT W. (CNC-11)

11-38
PETROGRAPHY AND CHEMISTRY OF MINERALS AND GLASS IN ROCKS PARTIALLY FUSED BY ROCK MELTING DRILLS.
LASL, 1975. 46P. (LA-5838)
EHRENBERG, STEPHEN N.
PERKINS, PRISCILLA C. (CMB-13)
KRUPKA, MILTON C. (CMB-3)

11-39
PETROLOGY OF DEEP SEATED CUMULATE INCLUSIONS, WEST POTRILLO MOUNTAINS, NEW MEXICO.
ABSTRACT PUBLISHED IN:
EOS, V.56, P.1069-70. 1975.
BERMAN, ROBERT G.
HARRINGTON, BARBARA G.
WOODS, JEFF A.
REID, JOHN B., JR. (Q-21)

11-40
PHASE EQUILIBRIA OF RICHTERITE AND FERRORICHTERITE.
AM. MINERAL., V.60, P.367-74. 1975.
CHARLES, ROBERT W. (***)

11-41
PLANNING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 1.
LASL, 1975. 42P. (LA-5819-PR)
PETTITT, ROLAND A. (Q-22)

11-42
PROGRESS OF THE LASL DRY HOT ROCK GEOTHERMAL ENERGY PROJECT.
TIC, 1975. 7P. MN (LA-UR-74-1836)
SMITH, MORTON C. (Q-22)

11-43
PROSPECT FOR GEOTHERMAL POWER.
TIC, 1975. 9P. MN (LA-UR-74-1111)
SMITH, MORTON C. (Q-22)

11-44
RADON -222 FROM THE OCEAN SURFACE.
J. GEOPHYS. RES., V.80, P.3828-30. 1975. (LA-UR-75-552)*
WILKENING, MARVIN H.
CLEMENTS, WILLIAM E. (H-8)

11-45
RAPID EXCAVATION BY ROCK MELTING.
ABSTRACT PUBLISHED IN:
RESEARCH IN TUNNELING AND EXCAVATION TECHNOLOGY. 1973. CONFERENCE, WAYZATA, MN. ABSTRACTS OF RESEARCH PROJECTS, P.1-3. NSF, 1973. (624:R432T)
ROWLEY, JOHN C. (Q-23)

11-46
REVIEW OF GEOTHERMAL WELL TECHNOLOGY AND THE POTENTIAL APPLICATIONS OF SUBTERRENE ROCK MELTING DEVICES.
TIC, 1975. 26P. MN (LA-UR-75-971)
ALTSEIMER, JOHN H. (Q-23)

11-47
ROCK MELTING HOLE PRODUCTION SYSTEMS FOR EXPLORATORY AND PRODUCTION GEOTHERMAL ENERGY WELLS.
ABSTRACT PUBLISHED IN:
BULL. N. MEX. ACAD. SCI., V.15, NO.2, P.24. 1975.
ALTSEIMER, JOHN H. (Q-23)
BANKSTON, CHARLES A., JR. (Q-23)
HANOLD, ROBERT J. (Q-23)

11-48
ROCK MELTING TECHNOLOGY AND GEOTHERMAL DRILLING.
TIC, 1975. 19P. MN (LA-UR-74-1880)
ROWLEY, JOHN C. (Q-DO)

11-49
SEISMICITY OF LOS ALAMOS AREA ESTIMATED FROM FAULT MOVEMENTS.
ABSTRACT PUBLISHED IN:
BULL. N. MEX. ACAD. SCI., V.15, NO.2, P.14-5. 1975.
BUDDING, ANTONIUS J.
PURTYMUN, WILLIAM D. (H-8)

11-50
SEISMICITY OF THE NORTHERN RIO GRANDE RIFT ZONE, NEW MEXICO.
ABSTRACT PUBLISHED IN:
BULL. N. MEX. ACAD. SCI., V.15, NO.2, P.23-4. 1975.
OLSEN, KENNETH H. (J-9)
MC FARLAND, NORMA J. (J-9)
ET AL

11-51
SEISMICITY STUDIES IN NORTHERN NEW MEXICO.
ABSTRACT PUBLISHED IN:
EOS, V.56, P.1022. 1975.
OLSEN, KENNETH H. (J-9)
CASH, DANIEL J. (J-9)

11-52
SINUOSITY OF STRIKE - SLIP FAULT TRACES.
GEOLOGY, V.3, P.630. 1975.
(LA-UR-75-206)*
BRIDWELL, RICHARD J. (J-9)

11-53
SOLID EARTH GEOSCIENCES RESEARCH ACTIVITIES AT LASL, JANUARY 1 - JUNE 30, 1975.
LASL, 1975. 15P. (LA-6080-PR)
HEIKEN, GRANT (Q-21) COMP.

11-54
SOLID EARTH GEOSCIENCES RESEARCH ACTIVITIES AT LASL, JULY 1 - DECEMBER 31, 1974.
LASL, 1975. 93P. (LA-5956-PR)
MC GETCHIN, THOMAS R. (Q-21) COMP.

11-55
SOME OBSERVATIONS OF LOCAL WIND INTERACTIONS IN COMPLEX TERRAIN.
ABSTRACT PUBLISHED IN:
EOS, V.56, P.988. 1975.
CLEMENTS, WILLIAM E. (H-8)
BARR, SUMNER (H-8)
DAHL, DAVID A. (H-8)

11-56
TEMPERATURE MEASUREMENTS IN THE PRECAMBRIAN SECTION OF GEOTHERMAL TEST HOLE NO.2.
LASL, 1975. 11P. (LA-6022-MS)
ALBRIGHT, JAMES N. (Q-22)

11-57
TESTING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 2.
LASL, 1975. 21P. (LA-5897-PR)
PETTITT, ROLAND A. (Q-22)

11-58
TESTING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 3.
LASL, 1975. 13P. (LA-5965-PR)
PETTITT, ROLAND A. (Q-22)

11-59
TRANSDUCER TECHNOLOGY FOR DEEP BOREHOLE GEOTHERMAL ENVIRONMENTS.
TIC, 1975. 53P. MN (LA-UR-75-723)
DENNIS, BERT R. (Q-22)
TODD, BILLY E. (Q-22)

11-60
UNIQUE REFRACTORY TECHNIQUES FOR FABRICATING SUBTERRENE PENETRATORS.
LASL, 1975. 15P. (LA-6038-MS)
TURNER, WILLIAM C. (Q-23)

11-61
VISCOUS MELT FLOW AND THERMAL ENERGY TRANSFER FOR A ROCK MELTING PENETRATOR: LITHOTHERMODYNAMICS.
TIC, 1974. 17P. MN (LA-UR-74-328)
ABSTRACT PUBLISHED IN:
MECH. ENG., V.97, P.68. 1975.
MC FARLAND, ROBERT D. (Q-22)
HANOLD, ROBERT J. (Q-23)

11-62
WATER QUALITY IN VICINITY OF FENTON HILL SITE, 1974.
LASL, 1975. 16P. (LA-6093)
PURTYMUN, WILLIAM D. (H-8)
ADAMS, WARREN H. (H-7)
OWENS, JAMES W. (H-8)

11-63
WATER SUPPLY AT LOS ALAMOS DURING 1974.
LASL, 1975. 20P. (LA-5998-MS)
PURTYMUN, WILLIAM D. (H-8)

12. ENERGY (NONNUCLEAR)

12-1
ALTERNATE FUELS FOR TRANSPORTATION, .2. HYDROGEN FOR THE AUTOMOBILE.
MECH. ENG., V.96, NO.6, P.22-8. JUNE 1974.
STEWART, WALTER F. (Q-26)
EDESKUTY, FREDERICK J. (Q-26)

12-2
CLIMATICALLY ADAPTED STRUCTURES.
LIFE-TECHNICS. 1974. 3RD ANNUAL CONFERENCE, GHOST RANCH, NM. PAPERS, P.171-82. NEW MEXICO SOLAR ENERGY ASSOCIATION, 1974. (697:L722T 1974)
ROGERS, BENJAMIN T. (Q-24)
BAER, STEVE

12-3
CONTROL SYSTEM DESIGN AND SIMULATION FOR A SOLAR HEATED AND COOLED BUILDING.
TIC, 1975. 11P. MN (LA-UR-75-688)
SHIPLEY, JAMES P., JR. (E-DOR)

12-4
DESIGN CONSIDERATIONS OF AIR COOLED COLLECTOR/ROCK-BIN STORAGE SOLAR HEATING SYSTEMS.
TIC, 1975. 3P. MN (LA-UR-75-945)
ALSO PUBLISHED IN:
LIFE-TECHNICS. 1974. 3RD ANNUAL CONFERENCE, GHOST RANCH, NM. PAPERS, P.155-70. NEW MEXICO SOLAR ENERGY ASSOCIATION, 1974. (697:L722T 1974)
BALCOMB, J. DOUGLAS (Q-24)
HEDSTROM, JAMES C. (Q-24)
ROGERS, BENJAMIN T. (Q-24)

12-5
DESIGN OF CONTROLS FOR A SOLAR HEATED BUILDING.
LASL, 1975. 6P. (LA-5925-MS)
STEDINGER, JERY P. (ADWP-2)

12-6
DEVELOPMENT PROGRAM FOR THE HIGH TEMPERATURE NUCLEAR PROCESS HEAT SYSTEM.
LASL, 1975. 22P. (LA-6062-MS)
JIACOLETTI, RICHARD J. (Q-DOT)

12-7
DYNAMIC SIMULATION OF A SOLAR HEATED AND COOLED BUILDING.
TIC, 1975. 9P. MN (LA-UR-75-691)
MURRAY, HUGH S. (E-4)

12-8
ELECTROCHEMICAL HEAT ENGINES FOR DIRECT ELECTRIC POWER GENERATION AND ENERGY STORAGE.
TIC, 1975. 8P. MN (LA-UR-75-1360)
ELLIOTT, GUY R. B. (CNC-2)
TRELA, WALTER J. (ENERGY OFF)
DIALS, GEORGE E. (ENERGY OFF)

12-9
ENERGY RECOVERY AND OTHER ENERGY RELATED APPLICATIONS OF THE HEAT PIPE.
ABSTRACT PUBLISHED IN:
BULL. N. MEX. ACAD. SCI., V.15, NO.2, P.19-20. 1975.
RANKEN, WILLIAM A. (Q-25)

12-10
IMBALANCES IN FEDERAL FUNDING OF ENERGY RESEARCH AND DEVELOPMENT.
LASL, 1975. 17P. (LA-5869-MS)
DIALS, GEORGE E. (ENERGY OFF)

12-11
INTEGRATED SOLAR ENERGY COLLECTOR FINAL SUMMARY REPORT.
LASL, 1975. 236P. (LA-6143-MS)
TOENJES, ROBERT B. (Q-DO)

12-12
MODELING AND HYBRID SIMULATION OF SOLAR ENERGY SYSTEMS.
TIC, 1974. 9P. MN (LA-UR-74-1604)
ALSO PUBLISHED IN:
CUBE. 1974. SYMPOSIUM, LIVERMORE, CA. PROC., P.395-402. TIC, 1975. (CONF-741001)
MURRAY, HUGH S. (E-4)

12-13
NATIONAL ENERGY NEEDS, COAL, AND THE LOS ALAMOS SCIENTIFIC LABORATORY.
LASL, 1975. 10P. (LA-5914-MS)
ELLIOTT, GUY R. B. (CNC-2)
DIALS, GEORGE E. (ENERGY OFF)

12-14
PANEL ON ENERGY STORAGE AND SOLAR ENERGY.
THERMODYNAMICS AND NATIONAL ENERGY PROBLEMS. 1974. CONFERENCE, WARRENTON, VA. REPORT, P.303-70. NAS, 1974. (333:T411N)
BROWN, JACK
MARGRAVE, JOHN L.
ELLIOTT, GUY R. B. (CNC-2)

12-15
PRELIMINARY REPORT ON LOCAL IMPACT MODEL.
LASL, 1975. 17P. (LA-6139-MS)
BRUCKNER, LAWRENCE A. (C-5)
MC KAY, MICHAEL D. (C-5)

12-16
PROGRESS REPORT. RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES FOR THE PERIOD JULY 1 TO SEPTEMBER 30, 1974.
LASL, 1975. 36P. (LA-5874-PR)
BALCOMB, J. DOUGLAS (Q-DOT) COMP.
HEDSTROM, JAMES C. (Q-DOT) COMP.
MOORE, STANLEY W. (Q-DOT) COMP.

12-17
RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES.
TIC, 1975. 12P. MN (LA-UR-75-1335)
BALCOMB, J. DOUGLAS (Q-24)
HEDSTROM, JAMES C. (Q-24)
MOORE, STANLEY W. (Q-24)
HERR, KENNETH C. (Q-24)

12-18
ROCKY MOUNTAIN ENERGY 1974: FLOWS, EMPLOYMENT, PRICES.
LASL, 1975. 44P. (LA-6122-MS)
BARRETT, RICHARD J. (T-2)
BEYER, WILLIAM A. (T-7)
KOLSTAD, CHARLES D. (Q-DO)

12-19
ROCKY MOUNTAIN ENERGY FLOW PATTERNS.
LASL, 1975. 14P. (LA-6107-MS)
KIDMAN, RUSSELL B. (T-2)

12-20
SOLAR HEATING HANDBOOK FOR LOS ALAMOS.
LASL, 1975. 72P. (LA-5967-MS)
BALCOMB, J. DOUGLAS (Q-24)
HEDSTROM, JAMES C. (Q-24)
MOORE, STANLEY W. (Q-24)
ROGERS, BENJAMIN T. (Q-24)

12-21
STRUCTURALLY INTEGRATED STEEL SOLAR COLLECTOR DEVELOPMENT.
TIC, 1975. 31P. MN (LA-UR-74-1931)
ALSO PUBLISHED IN:
SOLAR COLLECTORS FOR HEATING AND COOLING OF BUILDINGS. 1974. WORKSHOP. NEW YORK. PROC., P.55-67. NSF, 1975. (NSF-RA-N-75-019)
MOORE, STANLEY W. (Q-DOT)

12-22
WORLD ENERGY RESERVES AND CONSUMPTION.
SOLAR ENERGY, H. MESSEL AND S. T. BUTLER EDS. P.9-69. SYDNEY, SHAKESPEARE HEAD PRESS, 1974. (621:M584S)
TUCK, JAMES L. (***)

13. ENGINEERING AND EQUIPMENT

13-1
ADAPTIVE CONTROL TECHNIQUES FOR ON-AXIS RADARS.
TIC, 1975. 7P. MN (LA-UR-74-1779)
SCHELONKA, EDWARD P. (E-6)

13-2
COOLING TOWER MODIFICATION FOR INTERMITTENT OPERATION.
LASL, 1975. 4P. (LA-5920-MS)
MIDKIFF, WILLIAM S. (ENG-7)

13-3
DISTORTION AND NOISE INDUCED DC OFFSET IN OPERATIONAL AMPLIFIERS.
IEEE J. SOLID-STATE CIRCUITS, V.SC-10, P.161-7. 1975.
DUFFY, WILLIAM T.
MC CORMICK, J. BYRON (***)
HAMILTON, DOUGLAS J.
KERWIN, WILLIAM J.

13-4
E DIVISION QUARTERLY STATUS REPORT, JUNE 1 - AUGUST 31, 1975.
LASL, 1975. 21P. (LA-6102-PR)
KELLEY, PATRICIA A. (E-DO) COMP.

13-5
FUSION WELDING OF THIN METAL FOILS.
TIC, 1975. 12P. MN (LA-UR-75-1605)
CASEY, HUGH (CMB-6)

13-6
GAS HANDLING SYSTEM FOR STUDIES OF TRITIUM CONTAINING MATERIALS.
REMOTE SYSTEMS TECHNOLOGY. 1975. 23RD CONFERENCE, SAN FRANCISCO. PROC., P.69-76. ANS, 1975.
(626:H832C 23RD AND 22ND)
(LA-UR-75-1066)*
ALSO PUBLISHED AS:
TIC, 1975. 31P. MN (LA-UR-75-1066)
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.738. 1975.
CARSTENS, DEAN H. W. (CMB-3)

13-7
GRAVITY ASSIST HEAT PIPES FOR THERMAL CONTROL SYSTEMS.
LASL, 1975. 15P. (LA-5989-MS)
DEVERALL, JOHN E. (Q-25)
KEDDY, EDWARD S. (Q-25)
KEMME, JOSEPH E. (Q-25)
PHILLIPS, JOHN R. (CMB-1)

13-8
KILOTON SHIELD DOORS AT LAMPF.
REMOTE SYSTEMS TECHNOLOGY. 1974. 22ND CONFERENCE, WASHINGTON. PROC., P.43-51. ANS, 1975.
(626:H832C 23RD AND 22ND)
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.19, P.428-9. 1974.
WILSON, MAHLON T. (MP-7)

13-9
LIMITING PERFORMANCE OF STRUCTURAL SYSTEMS.
SHOCK AND VIBRATION COMPUTER PROGRAMS: REVIEWS AND SUMMARIES, P.323-8. SHOCK AND VIBRATION INFORMATION CENTER, 1975. (531:P639S)
SMITH, PAUL D. (***)
PILKEY, WALTER D.

13-10
LOS ALAMOS BUILDING COST INDEX.
LASL, 1975. 9P. (LA-5924-MS)
BENNETT, GLORIA A. (ENG-6)
LEMON, GLENN D. (ENG-8)

13-11
NUCLEAR PROCESS HEAT.
REPORT OF THE GOVERNOR'S TASK FORCE COMMITTEE ON NUCLEAR ENERGY, P.IX-1-10. BUREAU OF ENGINEERING RESEARCH, UNM, 1975. (338:N532R)
BOOTH, LAWRENCE A. (L-5)

13-12
PERFORMANCE TESTS OF GRAVITY ASSIST HEAT PIPES WITH SCREEN WICK STRUCTURES.
TIC, 1974. 17P. MN (LA-UR-74-212)
ALSO PUBLISHED IN:
HEAT TRANSFER WITH THERMAL CONTROL APPLICATIONS, M. M. YOVANOVICH, ED. PROGRESS IN AERONAUTICS AND ASTRONAUTICS, V.39, P.201-13. AIAA, 1975. (629.2:A512P V.39)
(LA-UR-74-212)*
KEMME, JOSEPH E. (Q-25)
DEVERALL, JOHN E. (Q-25)
KEDDY, EDWARD S. (Q-25)
PHILLIPS, JOHN R. (Q-25)
RANKEN, WILLIAM A. (Q-25)

13-13
RADIOACTIVITY, RADIATION DAMAGE, AND REMOTE HANDLING.
TIC, 1975. 8P. MN (LA-UR-75-425)
ALSO PUBLISHED IN:
IEEE TRANS. NUCL. SCI., V.NS-22, P.1042-8. 1975. (LA-UR-74-1829)*
WILSON, MAHLON T. (MP-7)

13-14
RELIABILITY ENGINEERING FOR FACILITY EFFECTIVENESS.
TIC, 1975. 7P. MN (LA-UR-75-427)
ALSO PUBLISHED IN:
IEEE TRANS. NUCL. SCI., V.NS-22, P.1030-5. 1975.
JAMESON, ROBERT A. (MP-9)

13-15
REVIEW OF AVAILABLE TECHNOLOGY FOR NARROW BAND TRANSMISSION OF VISUAL MATERIAL.
LASL, 1975. 8P. (LA-5945-MS)
MEYER, STUART L. (E-3)
BROWN, DAVID (E-3)

13-16
ROVER SHIPPING CASK.
LASL, 1975. 53P. (LA-5834-MS)
LOBB, BETTY (SP-DO)
NOYES, HORACE E. (SP-DO)
SMITH, DAVID R. (A-5)

13-17
TRISTAN MAGNETIC SPECTROMETER SYSTEM.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.18, P.1429. 1973.
WOHN, F. K.
TALBERT, W. L., JR.
HALBIG, JAMES K. (MP-9)

13-18
TRITIUM HANDLING FACILITIES AT THE LOS ALAMOS SCIENTIFIC LABORATORY.
REMOTE SYSTEMS TECHNOLOGY. 1975. 23RD CONFERENCE, SAN FRANCISCO. PROC., P.77-88. ANS, 1975.
(626:H832C 23RD AND 22ND)
ALSO PUBLISHED AS:
TIC, 1975. 35P. MN (LA-UR-75-1047)
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.738-9. 1975.
ANDERSON, JAMES L. (CMB-3)
DAMIANO, FORTUNATO A. (CMB-7)
NASISE, JOSEPH E. (CMB-3)

13-19
VENTILATION SYSTEMS ANALYSIS DURING TORNADO CONDITIONS, JANUARY - JUNE 1975.
LASL, 1975. 22P. (LA-6120-PR)
BENNETT, GLORIA A. (ENG-6)
GREGORY, WILLIAM S. (ENG-7)
SMITH, PHILLIP R.

13-20
VENTILATION SYSTEMS ANALYSIS DURING TORNADO CONDITIONS, JULY THROUGH DECEMBER 1974.
LASL, 1975. 18P. (LA-5894-PR)
GREGORY, WILLIAM S. (ENG-7)
BENNETT, GLORIA A. (ENG-6)

14. EPR, ESR, NMR STUDIES

14-1
CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13: THE EFFECT OF TEMPERATURE AND LIGHT.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.169, PAPER NO.INOR-110, 1975.
VERGAMINI, PHILLIP J. (CNC-4)
HOGENKAMP, H. P. C. (CNC-4)
MATWIYOFF, NICHOLAS A. (CNC-4)

14-2
CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF (2- CARBON -13) CARBONYMETHYLCYTOCHROME C.
BIOCHEMISTRY, V.14, P.4538-43, 1975.
(LA-UR-73-1406)*
EAKIN, R. T. (CNC-4)
MORGAN, LEON O. (CNC-4)
MATWIYOFF, NICHOLAS A. (CNC-4)

14-3
CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF WHOLE CELLS AND OF CYTOCHROME C FROM NEUROSOPORA CRASSA GROWN WITH CARBON -13 METHIONINE.
BIOCHEM. J., V.152, P.529-35, 1975.
(LA-UR-75-1042)*
EAKIN, R. T. (CNC-4)
MORGAN, LEON O. (CNC-4)
MATWIYOFF, NICHOLAS A. (CNC-4)

14-4
CARBON -13 NUCLEAR MAGNETIC RESONANCE STUDIES OF ADENOSYLCOBALAMIN AND ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13.
BIOCHEMISTRY, V.14, P.3707-14, 1974.
(LA-UR-75-647)*
HOGENKAMP, H. P. C. (CNC-4)
TKACHUCK, RICHARD D.
GRANT, MICHAEL E.
FUENTES, RICARDO (CNC-4)
MATWIYOFF, NICHOLAS A. (CNC-4)

14-5
CARBON -13 PARTIALLY RELAXED FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF ORGANOCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13.
ABSTRACT PUBLISHED IN:
FED. PROC., FED. AM. SOC. EXP. BIOL., V.34, P.690, 1975.
HOGENKAMP, H. P. C. (CNC-4)
TKACHUCK, RICHARD D.
FUENTES, RICARDO (CNC-4)
MATWIYOFF, NICHOLAS A. (CNC-4)

14-6
DIFFERENTIAL NUCLEAR OVERHAUSER ENHANCEMENT FOR CARBON -13 SINGLET AND CARBON -13 - CARBON -13 MULTIPLET RESONANCES OF A CARBOXYL CARBON.
J. MAGN. RESON., V.18, P.555-7, 1975.
(LA-UR-75-229)*
LONDON, ROBERT E. (CNC-4)
MATWIYOFF, NICHOLAS A. (CNC-4)
KOLLMAN, VICTOR H. (H-11)
MUELLER, DELBERT D. (CNC-4)

14-7
FOURIER TRANSFORM CARBON -13 NUCLEAR MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 1. EQUILIBRIUM QUOTIENTS FROM RELATIVE ABUNDANCES OF SOLUTION SPECIES.
INORG. CHEM. V.14, P.1837-40, 1975.
(LA-UR-74-1907)*
FUENTES, RICARDO (CNC-4)
MORGAN, LEON O. (CNC-4)
MATWIYOFF, NICHOLAS A. (CNC-4)

14-8
INDUCED PARAMAGNETISM IN URANIUM ALLOYS: A BORON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY OF ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND YTTRIUM TETRABORIDE.
J. PHYS. SOC. JPN., V.39, P.921-6, 1975. (LA-UR-75-834)*
FUKUSHIMA, EIICHI (CNC-4)
STRUEBING, VERNON O. (CMB-5)
HILL, H. HUNTER (CMB-5)

14-9
KINETIC PARAMETERS OF CARBONIC ANHYDRASE E BY CARBON -13 NUCLEAR MAGNETIC RESONANCE.
PURE APPL. CHEM., V.40, P.103-13, 1974.
KOENIG, SEYMOUR H.
BROWN, RODNEY D.
LONDON, ROBERT E. (T-DO)
NEEDHAM, TERENCE E. (CNC-4)
MATWIYOFF, NICHOLAS A. (CNC-4)

14-10
QUANTITATIVE ANALYSIS OF CARBON - CARBON COUPLING IN THE CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF MOLECULES BIOSYNTHESIZED FROM CARBON -13 ENRICHED PRECURSORS.
J. AM. CHEM. SOC., V.97, P.3565-73, 1975. (LA-UR-74-1483)*
LONDON, ROBERT E. (T-DO)
KOLLMAN, VICTOR H. (H-11)
MATWIYOFF, NICHOLAS A. (CNC-4)

14-11
SPIN LATTICE RELAXATION IN AN AM(XN) SYSTEM: APPLICATION TO CARBON -13 RELAXATION IN ENRICHED MOLECULES.
J. CHEM. PHYS., V.63, P.4442-9. 1975.
(LA-UR-75-1279)*
LONDON, ROBERT E. (CNC-4)
MATWIYOFF, NICHOLAS A. (CNC-4)
MUELLER, DELBERT D. (CNC-4)

14-12
STRUCTURE AND HINDERED MOTION OF BORON (3) HYDROGEN(8) ANIONS IN SOLIDS: AN NMR (NUCLEAR MAGNETIC RESONANCE) STUDY
CHEM. PHYS. LETT., V.32, P.566-8.
1975. (LA-UR-74-1906)*
PAINE, ROBERT T., JR. (CNC-4)
FUKUSHIMA, EIICHI (CNC-4)
ROEDER, S. W. B. (CNC-4)

14-13
STRUCTURE AND MOTION OF B3H8- ANIONS IN SOLIDS: A BORON AND PROTON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.169, PAPER NO.INOR-115. 1975.
PAINE, ROBERT T., JR. (CNC-4)
FUKUSHIMA, EIICHI (CNC-4)
ROEDER, S. B. W. (CNC-4)

15. EXPLOSIVES AND DETONATIONS

15-1
APPROXIMATE SOLUTION OF THE ADIABATIC EXPLOSION PROBLEM.
THERMOCHIM. ACTA, V.13, P.1-6. 1975.
(LA-UR-75-700)*
SMITH, LOUIS C. (WX-2)

15-2
CONTACT ELECTRICAL METHOD OF STUDYING IMPLOSION.
LASL, 1944. DECLASSIFIED 1971. 15P.
(LA-182)
FROMAN, DAROL K.
ET AL

15-3
DAMAGE TO LENGTHS OF PRIMACORD BY DETONATION OF NEARBY LENGTHS.
LASL, 1945. DECLASSIFIED 1971. 2P.
(LAMS-197)
MARLEY, WILLIAM G.
SCHROEDER, CHRISTIAN F.

15-4
DETERMINATION OF BINDER DEGRADATION IN PLASTIC BONDED EXPLOSIVES.
TIC, 1975. 7P. MN (LA-UR-74-1738)
WEWERKA, EUGENE M. (WX-2)
LOUGHRAN, E. DAN (WX-2)
WILLIAMS, JOEL M. (CMB-8)

15-5
DOME DEPTH ABOVE A DEPTH CHARGE IN WATER.
LASL, 1944. DECLASSIFIED 1971. 4P.
(LAMS-43)
CHRISTY, ROBERT F.

15-6
DYNAMIC ELASTIC - PLASTIC PROPERTIES OF SINGLE CRYSTAL PETN.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.20. 1975.
HALLECK, PHILLIP M. (WX-7)
WACKERLE, JERRY D. (WX-7)

15-7
EFFECT OF RIGIDITY ON SHOCK WAVES IN SOLIDS.
LASL, 1945. DECLASSIFIED 1971. 14P.
(LA-271)
PEIERLS, RUDOLPH E.

15-8
EFFECT OF VARIABLE ENTROPY IN THE THEORY OF SPHERICALLY CONVERGENT DETONATION WAVES.
LASL, 1945. DECLASSIFIED 1971. 11P.
(LA-262)
CALKIN, JOHN W.

15-9
EQUATION OF STATE FOR NONIDEAL EXPLOSIVES.
LASL, 1975. 39P. (LA-5864)
MADER, CHARLES L. (T-4)

15-10
EXPLOSIVE LOGIC CIRCUITS.
LASL, 1975. 8P. (LA-5802-MS)
PARKINSON, JOSEPH L. (WX-3)

15-11
FEASIBILITY OF USING AMATEX IN AIR FORCE SUBMUNITIONS, FEBRUARY 15 - NOVEMBER 30, 1974.
LASL, 1975. 25P. (AFATL-TR-75-56)
(LA-5992-PR)
POPOLATO, ALPHONSE (WX-3)

15-12
GRAVITY WAVES GENERATED BY THE CREATION OF A CYLINDRICAL CAVITY IN WATER.
LASL, 1944. DECLASSIFIED 1971. 48P.
(LA-228)
SHAPIRO, MAURICE M.

15-13
HIGH TEMPERATURE VACUUM THERMAL STABILITY TESTS OF EXPLOSIVES.
LASL, 1975. 11P. (LA-5829-MS)
BAYTOS, JOHN F. (WX-3)

15-14
IMPROVED HOT WIRE ELECTROEXPLOSIVE DEVICES.
TIC, 1974. 13P. MN (LA-UR-74-743)
ALSO PUBLISHED IN:
EXPLOSIVES AND PYROTECHNICS. 1974. 8TH SYMPOSIUM, LOS ANGELES. PROC., P.1/1-4. FRANKLIN INSTITUTE RESEARCH LABORATORIES, 1975. (FI-8E+P-74)
JOPPA, RICHARD M. (M-6)

15-15
INFLUENCE OF METALS ON THE THERMAL DECOMPOSITION OF S-TRIAMINOTRINITROBENZENE (TATB).
TIC, 1975. 5P. MN (LA-UR-74-1737)
LOUGHRAN, E. DAN (WX-2)
WEWERKA, EUGENE M. (WX-2)
ROGERS, RAYMOND N. (WX-2)
BERLIN, JANE K. (WX-2)

15-16
ISOTHERMAL LINEAR AND VOLUME COMPRESSION OF PENTAERYTHRITOL TETRANITRATE (PETN) TO 10 GPA (100 KBAR) AND THE CALCULATED SHOCK COMPRESSION.
J. CHEM. PHYS., V.62, P.4480-3. 1975.
(LA-UR-75-152)*
OLINGER, BARTON W. (M-6)
HALLECK, PHILLIP M. (WX-7)
CADY, HOWARD H. (WX-2)

15-17
MAGNIFICATION RATIOS FOR EXPLOSIVE DRIVEN SHOCKS.
LASL, 1975. 4P. (LA-5909-MS)
FICKETT, WILDON (T-4)
MADER, CHARLES L. (T-4)

15-18
NONSTEADY STATE DETONATIONS IN ONE DIMENSIONAL PLANE, DIVERGING, AND CONVERGING GEOMETRIES.
LASL, 1975. 17P. (LA-5865)
MADER, CHARLES L. (T-4)
CRAIG, BOBBY G. (M-3)

15-19
PICRYL DERIVATIVES OF BENZO (1,2-D:4,5-D') BISTRIAZOLE AND BENZO (1,2-D:4,5-D') BISTRIAZOLE -4,8- DIONE.
J. HETEROCYCL. CHEM., V.12, P.235-7. 1975. (LA-UR-74-1313)*
COBURN, MICHAEL D. (WX-2)
BERLIN, JANE K. (WX-2)

15-20
PLANE SHOCK INITIATION OF DETONATION: COMPUTER SIMULATION OF GAS GUN EXPERIMENT.
LASL, 1975. 27P. (LA-5915-MS)
FICKETT, WILDON (T-4)
JACOBSON, JACK D. (T-4)

15-21
PROCESS FOR PRODUCING 1,5 DIACETYL 3,7 DINITRO 1,3,5,7 TETRAAZOCYCLOOCTANE.
FILED 1974, PATENTED DEC. 16, 1975.
(U. S. PATENT 3,926,953)
COBURN, MICHAEL D. (WX-2)
BENZIGER, THEODORE M. (WX-2)

15-22
PROJECTILE VELOCITY MEASUREMENTS AND QUARTZ AND MANGANIN GAUGE PRESSURE DETERMINATIONS IN GAS GUN EXPERIMENTS.
LASL, 1975. 65P. (LA-5844)
WACKERLE, JERRY D. (WX-7)
JOHNSON, JAMES O. (WX-7)
HALLECK, PHILLIP M. (WX-7)

15-23
PROPERTIES OF X-0280 AND X-0281.
LASL, 1975. 6P. (LA-5981-MS)
FLAUGH, HARRY L. (WX-3)

15-24
SENSITIVITY OF X-0219 TO BULLET IMPACT.
LASL, 1975. 5P. (LA-5863-MS)
HANTEL, LAWRENCE W. (WX-2)

15-25
SHOCK COMPRESSION AND INITIATION OF POROUS PETN.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.20-1. 1975.
WACKERLE, JERRY D. (WX-7)
JOHNSON, JAMES O. (WX-7)
HALLECK, PHILLIP M. (WX-7)

15-26
THEORETICAL SIMULATIONS OF THE GAS EXPLOSIVE SIMULATION TECHNIQUE (GEST) EXPERIMENTS.
LASL, 1975. 7P. (LA-6154-MS)
RUPPEL, HANS M. (T-3)
NORTON, JOHN L. (T-3)

15-27
THERMOCHEMISTRY OF EXPLOSIVES.
THERMOCHIM. ACTA, V.11, P.131-9. 1975.
(LA-UR-74-1627)*
ROGERS, RAYMOND N. (WX-2)

15-28
TIME DEPENDENT DETONATIONS.
LASL, 1975. 36P. (LA-5926-MS)
BDZIL, JOHN B. (M-3)
DAVIS, WILLIAM C. (M-3)

15-29
USE OF HIGH ENERGY, SHORT PULSE EXPLOSIVE GENERATORS TO DRIVE ELECTROMAGNETIC IMPLOSIONS.
AFWL, 1975. 57P. (AFWL-TR-74-222)
CAIRD, ROBERT S., JR. (M-6)
TURCHI, PETER J.

16. FISSION PHYSICS

16-1
EXPERIMENTAL DETERMINATION OF PHOTOFISSION NEUTRON MULTIPLICITIES FOR EIGHT ISOTOPES IN THE MASS RANGE 232 < A < 239.
NUCL. SCI. ENG., V.56, P.179-87. 1975.
(LA-UR-74-1208)*
CALDWELL, JOHN T. (A-2)
DOWDY, EDWARD J. (A-2)

16-2
FISSION PRODUCT GAMMA AND (GAMMA,NEUTRON) SPECTRA AND GAMMA DECAY HEAT.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21, P.508-9. 1975.
STAMATELATOS, MICHAEL G. (T-2)
ENGLAND, TALMADGE R. (T-2)

16-3
FISSION PRODUCT GAMMA RAY AND PHOTONEUTRON SPECTRA.
TIC, 1975. 7P. MN (LA-UR-75-318)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.142. 1975.
STAMATELATOS, MICHAEL G. (T-2)
ENGLAND, TALMADGE R. (T-2)

16-4
FISSION.
REPORT OF THE GOVERNOR'S TASK FORCE COMMITTEE ON NUCLEAR ENERGY, P.II-1-15. BUREAU OF ENGINEERING RESEARCH, UNM, 1975. (338:N532R)
WHAN, GLENN A.
LONG, R. L.
O'DELL, R. DOUGLAS (T-1)

16-5
GAMMA AND BETA DECAY POWER FOLLOWING URANIUM -235 AND PLUTONIUM -239 FISSION BURSTS.
LASL, 1975. 12P. (LA-6021-MS)
ENGLAND, TALMADGE R. (T-2)
SCHENTER, R. E.
WHITTEMORE, NADINE L. (T-2)

16-6
INDEPENDENT FISSION YIELDS OF RUBIDIUM AND CESIUM FROM THERMAL NEUTRON INDUCED FISSION OF PLUTONIUM -239.
PHYS. REV., V.C12, P.413-6. 1975.
(LA-UR-75-766)*
BALESTRINI, SILVIO J. (CNC-11)
FORMAN, LEON (J-16)

16-7
MASS AND KINETIC ENERGY MEASUREMENTS OF FRAGMENTS FROM THE ISOMERIC AND EXCITED STATE FISSION OF AMERICIUM -242.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1155. 1975.
WILHELMY, JERRY B. (CNC-11)
WEBER, JOSEF (CNC-11)
ERDAL, BRUCE R. (CNC-11)
GAVRON, AVIGDOR I. (P-9)

16-8
MEASUREMENTS OF GAMMA-F/GAMMA-N USING DIRECT REACTION FISSION TECHNIQUES.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.169, PAPER NO.NUCL-8. 1975.
BRITT, HAROLD C. (P-9)
GAVRON, AVIGDOR I. (P-9)
KONECNY, E. (P-9)
WEBER, JOSEF (CNC-11)
WILHELMY, JERRY B. (CNC-11)

16-9
MONOCHROMATIC PHOTON INDUCED THORIUM -232 PHOTONUCLEAR REACTIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.582-3. 1975.
DOWDY, EDWARD J. (A-2)
CALDWELL, JOHN T. (A-2)
ALVAREZ, RAYMOND A.
BERMAN, BARRY L.
MEYER, PAUL
GODLOVE, TERRY F.

16-10
NUCLEAR CHARGE DISTRIBUTION IN FISSION SPECTRUM NEUTRON INDUCED FISSION: FRACTIONAL CUMULATIVE YIELDS OF RARE GAS NUCLIDES FROM FISSION OF URANIUM -235 AND URANIUM -238.
J. INORG. NUCL. CHEM., V.37, P.1125-8. 1975. (LA-UR-74-969)*
WOLFSBERG, KURT (CNC-11)

16-11
PHOTOFISSION AND PHOTONEUTRON MEASUREMENT OF URANIUM -238 WITH MONOENERGETIC PHOTONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.582. 1975.
CALDWELL, JOHN T. (A-2)
DOWDY, EDWARD J. (A-2)
ALVAREZ, RAYMOND A.
BERMAN, BARRY L.
GODLOVE, TERRY F.
MEYER, PAUL

16-12
PHOTOFISSION MEASUREMENTS WITH MONOENERGETIC PHOTONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1187. 1975.
CALDWELL, JOHN T. (A-2)

16-13
SCISSION POINT PARAMETERS DETERMINED BY LIGHT PARTICLE EMISSION IN FISSION OF CALIFORNIUM -252.
PHYS. REV., V.C11, P.580-6. 1975.
(LA-UR-74-1543)*
GAVRON, AVIGDOR I. (P-9)

17. HEALTH AND SAFETY

17-1
AEROSOL RESEARCH AND DEVELOPMENT RELATED TO HEALTH HAZARD ANALYSIS. LASL PROJECT R-038, APRIL 1 THROUGH JUNE 30, 1972.
LASL, 1972. 42P. (LA-5016-PR)
ETTINGER, HARRY J. (H-5)
FAIRCHILD, CHARLES I. (H-5)
MOSS, OWEN R. (H-8)
ORTIZ, LAWRENCE W. (H-5)

17-2
ATMOSPHERIC MERCURY SAMPLING MATERIAL AND METHOD.
FILED 1973, PATENTED JUN. 10, 1975.
(U. S. PATENT 3,888,124)
CAMPBELL, EVAN E. (H-5)
EUTSLER, BERNARD C. (H-5)
TRUJILLO, PATRICIO E., JR. (H-5)

17-3
BEHAVIOR OF PLUTONIUM IN THE ENVIRONMENT.
PLUTONIUM INFORMATION. 1974. MEETING FOR AN AD HOC SUBCOMMITTEE OF THE ADVISORY COMMITTEE ON REACTOR SAFEGUARDS, LOS ALAMOS, NM. PAPERS, P.64-71. TIC, 1974. (CONF-740115)
HANSON, WAYNE C. (H-8)

17-4
CALIBRATION STANDARDS FOR COUNTING ASBESTOS.
J. AM. IND. HYG. ASSOC., V.36, P.104-12. 1975. (LA-UR-74-1373)*
ORTIZ, LAWRENCE W. (H-5)
ETTINGER, HARRY J. (H-5)
FAIRCHILD, CHARLES I. (H-5)

17-5
CONFINEMENT FACILITIES FOR HANDLING PLUTONIUM.
HEALTH PHYS., V.29, P.469-80. 1975.
(LA-UR-75-200)*
MARAMAN, WILLIAM J. (CMB-11)
MC NEESE, WILBUR D. (CMB-11)
STAFFORD, RONALD G. (H-1)

17-6
CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY, JULY - DECEMBER 1974.
LASL, 1975. 7P. (LA-5969-PR)
HEALY, JOHN W. (H-DO)
WENZEL, WALTER J. (H-DO)

17-7
CYCLONE SAMPLING OF FIBROUS GLASS AEROSOLS.
TIC, 1975. 21P. MN (LA-UR-74-1556)
ETTINGER, HARRY J. (H-5)
ORTIZ, LAWRENCE W. (H-5)

17-8
DEMOLITION OF BUILDING 12, AN OLD PLUTONIUM FILTER FACILITY.
TIC, 1974. 75P. MN (LA-UR-74-591)
ALSO PUBLISHED IN:
AEC ENVIRONMENTAL PROTECTION. 1974. 2ND CONFERENCE, ALBUQUERQUE, NM. PROC., V.2, P.855-929. USAEC, 1974. (WASH-1332(74) V.2)
ALSO PUBLISHED IN:
DECONTAMINATION AND DECOMMISSIONING (D+D) OF ERDA FACILITIES. 1975. 1ST CONFERENCE. IDAHO FALLS, ID. PROC., P.303-12. ERDA, 1975. (CONF-750827)
CHRISTENSEN, ELDON L. (CMB-11)
GARDE, RAYMOND (H-8)
VALENTINE, ALLEN M. (H-1)

17-9
DEMOLITION OF BUILDING 12, AN OLD PLUTONIUM FILTER FACILITY.
LASL, 1975. 20P. (LA-5755)
CHRISTENSEN, ELDON L. (CMB-11)
GARDE, RAYMOND (H-8)
VALENTINE, ALLEN M. (H-1)

17-10
DESIGN OF VENTILATION AND AIR CLEANING SYSTEMS FOR THE NEW LOS ALAMOS PLUTONIUM FACILITY.
TIC, 1974. 13P. MN (LA-UR-74-1051)
ALSO PUBLISHED IN:
AIR CLEANING. 1974. 13TH AEC CONFERENCE, SAN FRANCISCO. PROC., P.340-50. HACL, 1975.
(CONF-740807 V.1)
MITCHELL, ROBERT N. (H-5)
DE FIELD, JAMES D. (H-5)
STAFFORD, RONALD G. (H-1)
MC NEESE, WILBUR D. (CMB-11)
EBERHARDT, WILLIAM (ENG-2)
LAUSHKIN, NIKOLAI

17-11
DETERMINATION OF 3,3'- DICHLORO -4,4'-DIAMINODIPHENYLMETHANE IN AIR.
J. CHROMATOGR., V.104, P.283-90. 1975.
(LA-UR-74-1141)*
YASUDA, STANLEY K. (H-5)

17-12
DEVELOPMENT OF A MULTISTAGE AIR SAMPLER FOR MERCURY.
ANAL. CHEM., V.47, P.1629-34. 1975.
(LA-UR-75-261)*
TRUJILLO, PATRICIO E., JR. (H-5)
CAMPBELL, EVAN E. (H-5)

17-13
DEVELOPMENT OF AIR SAMPLING TECHNIQUES, LASL PROJECT R-059, NIOSH-IA-74-10, APRIL 1 - SEPTEMBER 30, 1974.
LASL, 1975. 19P. (LA-5973-PR)
CAMPBELL, EVAN E. (H-5)
WOOD, GERRY O. (H-5)
ANDERSON, ROBERT G. (H-5)

17-14
DEVELOPMENT OF SAMPLING AND ANALYTICAL METHODS FOR CARCINOGENS, JULY 1 - DECEMBER 31, 1974.
LASL, 1975. 21P. (LA-6042-PR)
WEEKS, ROBERT W. (H-5)
MORALES, RAUL (H-5)
RAPPAPORT, STEPHEN M. (H-5)
ETTINGER, HARRY J. (H-5)
CAMPBELL, EVAN E. (H-5)

17-15
DISPOSITION OF TA-33-21, A PLUTONIUM CONTAMINATED EXPERIMENTAL FACILITY.
DECONTAMINATION AND DECOMMISSIONING (D+D) OF ERDA FACILITIES. 1975. 1ST CONFERENCE, IDAHO FALLS, ID. PROC., P.165-206. ERDA, 1975. (CONF-750827)
ALSO PUBLISHED AS:
TIC, 1975. 44P. MN (LA-UR-75-1419)
COX, EARL J. (H-1)
GARDE, RAYMOND (H-8)
VALENTINE, ALLEN M. (H-1)

17-16
ECOLOGICAL CONSIDERATIONS OF THE BEHAVIOR OF PLUTONIUM IN THE ENVIRONMENT.
HEALTH PHYS., V.28, P.529-37. 1975.
(LA-UR-74-1170)*
HANSON, WAYNE C. (H-8)

17-17
ELEMENTS OF QUALITY ASSURANCE IN ENVIRONMENTAL SURVEILLANCE.
TIC, 1976. 13P. MN (LA-UR-75-1915)
ALSO PUBLISHED IN:
ENVIRONMENTAL PROTECTION, 1975. 3RD CONFERENCE, CHICAGO. PROC., V.1, P.77-88. ERDA, 1975. (ERDA-92 V.1)
JOHNSON, LAMAR J. (H-8)

17-18
ENERGY DEPENDENCE OF FOUR NEUTRON REMMETER INSTRUMENTS.
HEALTH PHYS., V.28, P.305-7. 1975.
(LA-UR-74-869)*
HANKINS, DALE E. (H-1)
CORTEZ, JOSEPH R. (H-1)

17-19
ENERGY RESPONSE OF TLD BADGES LOCATED ON PERSONNEL.
HEALTH PHYS., V.28, P.80-1. 1975.
(LA-UR-74-601)*
HANKINS, DALE E. (H-1)

17-20
ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES OCTOBER 1 - DECEMBER 31, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS.
LASL, 1975. 14P. (LA-5901-PR)
WATERBURY, GLENN R. (CMB-1) COMP.

17-21
ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, APRIL 1 - JUNE 30, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS.
LASL, 1975. 15P. (LA-6128-PR)
WATERBURY, GLENN R. (CMB-1) COMP.

17-22
ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JANUARY 1 - MARCH 31, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS.
LASL, 1975. 16P. (LA-6056-PR)
WATERBURY, GLENN R. (CMB-1) COMP.

17-23
ENVIRONMENTAL ISSUES RELATED TO ENERGY RESOURCE DEVELOPMENT IN NEW MEXICO.
BUREAU OF ENGINEERING RESEARCH, UNIVERSITY OF NEW MEXICO, 1975. 90P. (338:N532E)
STARK, EUGENE E. (ENERGY OFFICE)

17-24
ENVIRONMENTAL PATHWAYS OF PLUTONIUM INTO TERRESTRIAL PLANTS AND ANIMALS.
HEALTH PHYS., V.29, P.583-8. 1975.
(LA-UR-75-197)*
HAKONSON, THOMAS E. (H-8)

17-25
ENVIRONMENTAL SURVEILLANCE AT LOS ALAMOS DURING 1974.
LASL, 1975. 47P. (LA-5977-PR)
APT, KENNETH E. (H-8) COMP.
LEE, VALERIE J. (H-8) COMP.

17-26
EVACUATED REFRIGERANT CONTAINER AS A SOURCE OF VACUUM FOR AIR SAMPLING.
J. AM. IND. HYG. ASSOC., V.36, P.845-6. 1975. (LA-UR-74-748)*
GRIFFIN, JAMES D. (H-5)
EUTSLER, BERNARD C. (H-5)

17-27
EVALUATION OF METHODS FOR THE DETERMINATION OF MERCURY. LASL PROJECT R-060 QUARTERLY REPORT, APRIL 1 THROUGH JUNE 30, 1972.
LASL, 1972. 128P. (LA-4991-PR)
CAMPBELL, EVAN E. (H-5)
ET AL

17-28
EXPERIENCE RELATED TO THE SAFETY OF ADVANCED LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL ELEMENTS.
LASL, 1975. 29P. (LA-6028)
KERRISK, JERRY F. (CMB-11)

17-29
INVESTIGATION OF PERFORMANCE OF US ARMY FILTER CANISTERS AND RESPIRATORS EQUIPPED WITH PROTOTYPE FACEPIECES.
LASL, 1975. 21P. (LA-5955-MS)
REVOIR, WILLIAM H. (H-5)
RICHARDS, CHARLES P. (H-5)
HACK, ALAN L. (H-5)
WHEAT, LLOYD D. (H-5)
BUSTOS, JOSE M. (H-5)

17-30
IODINE -131 RELEASE FROM AN HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) DURING THE LOFC (LOSS OF COOLANT) ACCIDENT.
LASL, 1975. 11P. (LA-5893-MS)
FOLEY, JOHN E. (ENG-6)

17-31
MONITOR FOR TRITIUM IN AIR CONTAINING OTHER BETA EMITTERS.
REMOTE SYSTEMS TECHNOLOGY, 1975. 23RD CONFERENCE, SAN FRANCISCO. PROC., P.89-93. ANS, 1975.
(626:H832C 23RD AND 22ND)
(LA-UR-75-1070)*
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.739-40. 1975.
JALBERT, ROLAND A. (H-1)

17-32
MULTIPLE HEPA FILTER TEST METHODS, JULY 1, 1974 - MARCH 31, 1975.
LASL, 1975. 8P. (LA-6074-PR)
SCHUSTER, BURTON G. (H-5)
OSETEK, DANIEL J. (H-5)

17-33
ORIGIN OF CURRENT STANDARDS.
TIC, 1975. 16P. MN (LA-UR-74-1963)
ALSO PUBLISHED IN:
HEALTH PHYS., V.29, P.489-94. 1975.
(LA UR-74-1963)*
HEALY, JOHN W. (H-10)

17-34
PASSIVE ENVIRONMENTAL NEUTRON DOSIMETER.
TIC, 1974. 8P. MN (LA-UR-74-1232)
ALSO PUBLISHED IN:
HEALTH PHYS., V.28, P.474-6. 1975.
(LA-UR-74-1232)*
APT, KENNETH E. (H-8)
SCHIAGER, KEITH J. (H-8)

17-35
PERFORMANCE OF MULTIHUNDRED WATT FUELED SPHERE ASSEMBLIES IN THE SAFETY SEQUENTIAL TEST PROGRAM.
LASL, 1975. 22P. (LA-5916)
CRAMER, EUGENE M. (CMB-5)

17-36
PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS FOR PERIOD JULY 1 THROUGH DECEMBER 31, 1972.
LASL, 1973. 27P. (LA-5170-PR)
ETTINGER, HARRY J. (H-5)
ELDER, JOHN C. (H-5)
GONZALES, MANUEL (H-5)

17-37
PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS FOR THE PERIOD MARCH 1 THROUGH JUNE 30, 1972.
LASL, 1972. 48P. (LA-5012-PR)
ETTINGER, HARRY J. (H-5)
ELDER, JOHN C. (H-5)
GONZALES, MANUEL (H-5)

17-38
PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS.
TIC, 1974. 25P. MN (LA-UR-74-1035)
ALSO PUBLISHED IN:
AIR CLEANING, 1974. 13TH AEC CONFERENCE, SAN FRANCISCO. PROC., P.501-23. HACL, 1975.
(CONF-740807 V.1)
GONZALES, MANUEL (H-5)
ELDER, JOHN C. (H-5)
ETTINGER, HARRY J. (H-5)

17-39
PERSONAL AIR SAMPLING FOR VAPORS OF ANILINE COMPOUNDS.
J. AM. IND. HYG. ASSOC., V.36, P.538-48. 1975. (LA-UR-74-1490)*
WOOD, GERRY O. (H-5)
ANDERSON, ROBERT G. (H-5)

17-40
PERSONAL PROTECTIVE DEVICES.
ENVIRONMENTAL HEALTH: THE WORKER AND THE COMMUNITY, L. V. CRALLEY, ED. P.293-310. ACADEMIC, 1975.
(614.85:C88812)
BURGESS, WILLIAM A.
HELD, BRUCE J. (***)

17-41
PLUTONIUM -242 VS PLUTONIUM -236 AS AN ANALYTICAL TRACER.
HEALTH PHYS., V.28, P.41-7. 1975.
(LA-UR-74-180)*
KRESSIN, IVAN K. (H-5)
MOSS, WILLIAM D. (H-5)
CAMPBELL, EVAN E. (H-5)
SCHULTE, HARRY F (H-5)

17-42
PLUTONIUM RELEASE RATES FROM PLUTONIUM -238 FUELS EXPOSED TO AQUATIC ENVIRONMENTS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.100-1. 1975.
MATLACK, GEORGE M. (CMB-1)
PATTERSON, JAMES H. (CMB-1)
NELSON, GILBERT B. (CMB-1)
WATERBURY, GLENN R. (CMB-1)

17-43
PLUTONIUM, AMERICIUM AND URANIUM CONCENTRATIONS IN NEVADA TEST SITE SOIL PROFILES.
TIC, 1975. 25P. MN (LA-UR-75-1770)
ESSINGTON, EDWARD H. (H-8)
GILBERT, RICHARD O.
EBERHARDT, L. L.
FOWLER, ERIC B. (H-8)

17-44
PLUTONIUM: ASSESSMENT OF THE OCCUPATIONAL ENVIRONMENT.
HEALTH PHYS., V.29, P.613-8. 1975.
(LA-UR-74-1732)*
SCHULTE, HARRY F. (H-5)

17-45
PROGRESS REPORT. ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JULY 1 THROUGH SEPTEMBER 30, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS.
LASL, 1975. 14P. (LA-5822-PR)
WATERBURY, GLENN R. (CMB-1) COMP.

17-46
PROGRESS REPORT. RESPIRATOR STUDIES FOR THE AEC DIRECTORATE OF REGULATORY STANDARDS, JANUARY 1 THROUGH JUNE 30, 1974.
LASL, 1975. 5P. (LA-5873-PR)
HELD, BRUCE J. (H-5)
REVOIR, WILLIAM H. (H-5)
PRITCHARD, JOHN A. (H-5)
HACK, ALAN L. (H-5)
GEOFFRION, LOUIS A. (H-5)
DAVIS, THOMAS O., JR. (H-5)
RICHARDS, CHARLES P. (H-5)
BEVIS, DARELL A. (H-5)
MOORE, TOM O. (H-5)
WHEAT, LLOYD D. (H-5)
HYATT, EDWIN C. (H-5)

17-47
PURPOSES AND FUNCTIONS OF AIR SAMPLING PROGRAMS.
TIC, 1975. 6P. MN (LA-UR-75-887)
ALSO PUBLISHED IN:
OCCUPATIONAL HEALTH EXPERIENCE WITH URANIUM. 1975. CONFERENCE, ARLINGTON, VA. PAPERS, P.436-41. ERDA, 1975. (ERDA-93)
SCHULTE, HARRY F. (ENERGY OFFICE)

17-48
RADIOCHEMICAL ANALYTICAL RESULTS OF NAEG (NEVADA APPLIED ECOLOGY GROUP) SAMPLES BY LASL-H7.
LASL, 1975. 75P. (LA-5997-MS)
ESSINGTON, EDWARD H. (H-8)
FOWLER, ERIC B. (H-7)

17-49
RELEASE OF PLUTONIUM TO THE ATMOSPHERE.
PLUTONIUM INFORMATION. 1974. MEETING FOR AN AD HOC SUBCOMMITTEE OF THE ADVISORY COMMITTEE ON REACTOR SAFEGUARDS, LOS ALAMOS, NM. PAPERS, P.16-29. TIC, 1974. (CONF-740115)
JORDAN, HARRY S., JR. (H-DO)

17-50
RESPIRATORY PROTECTION: OSHA AND THE SMALL BUSINESSMAN.
ANN ARBOR SCIENCE PUBLISHERS, 1975. 102P. (614.8:R899R)
RUCH, WALTER E.
HELD, BRUCE J. (H-5)

17-51
SAFETY CONSIDERATIONS IN THE LASER RESEARCH PROGRAM AT THE LOS ALAMOS SCIENTIFIC LABORATORY.
TIC, 1975. 42P. MN (LA-UR-75-711)
WINBURN, DUANE C. (L-DO)

17-52
SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE II: SOLID PROPELLANT FIRE.
LASL, 1975. 20P. (LA-6034-MS)
SNOW, EDWARD C. (CMB-5)

17-53
SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE III: FSA (FUEL SPHERE ASSEMBLY) IMPACTS.
LASL, 1975. 17P. (LA-5855-MS)
SNOW, EDWARD C. (CMB-5)
FRANTZ, CHARLES E. (CMB-5)

17-54
SAFETY TEST ON THE STORAGE OF PLUTONIUM TETRAFLUORIDE.
LASL, 1946. DECLASSIFIED 1971. 5P. (LAMS-453)
ROBERTS, JAMES H.
ET AL

17-55
SAMPLING OF SOILS FOR RADIOACTIVITY: PHILOSOPHY, EXPERIENCE, AND RESULTS.
TIC, 1975. 13P. MN (LA-UR-74-1339)
FOWLER, ERIC B. (H-7)
GILBERT, RICHARD O.
ESSINGTON, EDWARD H. (H-7)

17-56
SPECIFICATIONS AND TEST PROCEDURES FOR AIRLINE TYPE SUPPLIED AIR SUITS.
LASL, 1975. 15P. (LA-5958-MS)
REVOIR, WILLIAM H. (H-5)
PRITCHARD, JOHN A. (H-5)
DAVIS, THOMAS O., JR. (H-5)
RICHARDS, CHARLES P. (H-5)
WHEAT, LLOYD D. (H-5)

17-57
SPOT TEST LIMIT OF DETECTION VALUES FOR CARCINOGENIC AROMATIC AMINES AND THEIR HOMOLOGUES AND ANALOGUES.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.170, PAPER NO.ANAL-90. 1975.
WEEKS, ROBERT W. (H-5)
YASUDA, STANLEY K. (H-5)
DEAN, BRENDA J. (H-5)

17-58
STUDIES OF PLUTONIUM, AMERICIUM, AND URANIUM IN ENVIRONMENTAL MATRICES.
LASL, 1975. 24P. (LA-5661)
ADAMS, WARREN H. (H-7)
BUCHHOLZ, JERRY R. (H-7)
CHRISTENSON, CONARD W. (H-7)
JOHNSON, GEORGE L. (H-7)
FOWLER, ERIC B. (H-7)

17-59
THEORETICAL, ANALYTICAL, AND STATISTICAL INTERPRETATION OF ENVIRONMENTAL DATA.
TIC, 1975. 16P. MN (LA-UR-75-872)
LOMBARD, STEWART M. (H-8)

17-60
TRANSFER TECHNIQUE FOR ELECTRON MICROSCOPY OF MEMBRANE FILTER SAMPLES.
ELECTRON MICROSCOPY SOCIETY OF AMERICA. 1974. 32ND ANNUAL MEETING, ST. LOUIS. PROC., P.554-5. CLAITOR'S PUBLISHING DIVISION, 1974.
(535:E38M 1974)
ORTIZ, LAWRENCE W. (H-5)
ISOM, BONNIE LEE (H-5)

17-61
VENTILATION DESIGN MODIFICATIONS AT LOS ALAMOS SCIENTIFIC LABORATORY MAJOR PLUTONIUM OPERATIONAL AREAS.
TIC, 1974. 20P. MN (LA-UR-74-1132)
ALSO PUBLISHED IN:
AIR CLEANING. 1974. 13TH AEC CONFERENCE, SAN FRANCISCO. PROC., P.353-71. HACL, 1975.
(CONF-740807 V.1)
STAFFORD, RONALD G. (H-1)
GALLIMORE, JOHN C., JR. (H-1)
MITCHELL, ROBERT N. (H-5)
MARAMAN, WILLIAM J. (CMB-11)
MC NEESE, WILBUR D. (CMB-11)

17-62
WASTE MANAGEMENT AND SAFETY CONSIDERATIONS FOR FUTURE LASL D+D (DECONTAMINATION AND DECOMMISSIONING) PROJECTS.
DECONTAMINATION AND DECOMMISSIONING (D+D) OF ERDA FACILITIES. 1975. 1ST CONFERENCE, IDAHO FALLS, ID. PROC., P.383-402. ERDA, 1975. (CONF-750827)
ALSO PUBLISHED AS:
TIC, 1975. 31P. MN (LA-UR-75-1473)
VALENTINE, ALLEN M. (H-1)
WARREN, JOHN LAWRENCE (H-7)

18. HYDRODYNAMICS AND RADIATION TRANSPORT

18-1
ACCURACY OF THE WHITE BOUNDARY CONDITION IN R-Z GEOMETRY.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.18, P.142.
1974.
GELBARD, E. M.
LATHROP, KAYE D. (T-1)

18-2
APPLICATION OF A DRIFT - FLUX MODEL TO FLASHING IN STRAIGHT PIPES.
LASL, 1975. 16P. (LA-6005-MS)
HIRT, CYRIL W., JR. (T-3)
ROMERO, NICK C. (T-3)

18-3
CALCULATING THREE DIMENSIONAL FLUID FLOWS AT ALL SPEEDS WITH AN EULERIAN-LAGRANGIAN COMPUTING MESH.
J. COMPUT. PHYS., V.17, P.132-59.
1975. (LA-UR-74-1137)*
PRACHT, WILLIAM E. (T-3)

18-4
CLASSICAL TRANSPORT IN A MOVING FLUID.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20,
P.1258. 1975.
WIENKE, BRUCE R. (T-1)

18-5
COMPUTER STUDIES ON FLUID SYSTEMS OF HARD CORE PARTICLES.
FUNDAMENTAL PROBLEMS IN STATISTICAL MECHANICS. 1974. INTERNATIONAL SUMMER SCHOOL, WAGENINGEN. PROC., P.331-88.
NORTH-HOLLAND, 1975. (530:C678F 1974)
(LA-UR-74-1164)*
WOOD, WILLIAM W. (T-DOT)

18-6
COOPERATIVE MOTIONS IN HARD CORE FLUIDS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20,
P.366. 1975.
WOOD, WILLIAM W. (T-DOT)

18-7
DEBRIS - AIR INTERACTIONS AND THEIR EFFECTS ON RADAR CLUTTER.
ABSTRACT PUBLISHED IN:
ATMOSPHERIC EFFECTS. 1973. SYMPOSIUM, SAN DIEGO, CA, ABSTRACTS OF PAPERS,
P.156. DNA, 1973. (DNA-LA-10)
SALMI, ERNEST W. (ADWP-2)

18-8
DEBRIS ENERGY PATCH CALCULATION.
ABSTRACT PUBLISHED IN:
ATMOSPHERIC EFFECTS. 1973. SYMPOSIUM, SAN DIEGO, CA, ABSTRACTS OF PAPERS,
P.107. DNA, 1973. (DNA-LA-10)
BRACKBILL, JEREMIAH U. (T-3)
SUTHERLAND, C. DEXTER (J-10)
TIERNEY, MARTIN S. (J-10)
ZINN, JOHN (J-10)

18-9
DETONATION OF HIGH EXPLOSIVES IN LAGRANGIAN HYDRODYNAMIC CODES USING THE PROGRAMMED BURN TECHNIQUE.
LASL, 1975. 9P. (LA-6097-MS)
BERGER, MICHAEL E. (TD-4)

18-10
DIFFUSION OF A PASSIVE SCALAR AT LARGE PRANDTL NUMBER ACCORDING TO THE ABRIDGED LAGRANGIAN INTERACTION THEORY.
PHYS. FLUIDS, V.18, P.1393-4. 1975.
(LA-UR-74-1743)*
MJOLSNESS, RAYMOND C. (T-3)

18-11
DISCHARGE FLOW WITH TWO DIMENSIONAL FLUID MOEL ANALYSIS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.261-3.
1975.
HIRT, CYRIL W., JR. (T-3)
RIVARD, WILLIAM C. (T-3)

18-12
EFFECTS OF TURBULENCE ON LOW ALTITUDE FIREBALLS AT LATE TIMES.
ABSTRACT PUBLISHED IN:
ATMOSPHERIC EFFECTS. 1973. SYMPOSIUM, SAN DIEGO, CA, ABSTRACTS OF PAPERS,
P.167. DNA, 1973. (DNA-LA-10)
RUPPEL, HANS M. (T-3)
GENTRY, RICHARD A. (T-3)

18-13
EXTENSION OF THE MRC MULTIBURST.
ABSTRACT PUBLISHED IN:
ATMOSPHERIC EFFECTS. 1973. SYMPOSIUM, SAN DIEGO, CA, ABSTRACTS OF PAPERS,
P.192. DNA, 1973. (DNA-LA-10)
JONES, ERIC M. (J-10)
ANDERSON, RICHARD C. (J-10)

18-14
FIREBALL CALCULATIONS WITH THE SN METHOD.
ABSTRACT PUBLISHED IN:
ATMOSPHERIC EFFECTS. 1973. SYMPOSIUM, SAN DIEGO, CA. ABSTRACTS OF PAPERS, P.155. DNA, 1973. (DNA-LA-10)
HORAK, HENRY G. (J-10)

18-15
FLOW OF INTERPENETRATING MATERIAL PHASES.
J. COMPUT. PHYS., V.18, P.440-64. 1975. (LA-UR-75-312)*
HARLOW, FRANCIS H., JR. (T-3)
AMSDEN, ANTHONY A. (T-3)

18-16
GAP: A PIC-TYPE FLUID CODE.
MATH. COMPUT., V.29, P.434-46. 1975. (LA-UR-73-1063)*
MARDER, BARRY M. (Q-6)

18-17
GENERAL FLUID DYNAMICS ALGORITHM FOR ASTROPHYSICAL APPLICATIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.7, P.255-6. 1975.
CLOUTMAN, LAWRENCE D. (T-3)
RUPPEL, HANS M. (T-3)

18-18
HUGONIOT DATA FOR SEVERAL BENZENE RING LIQUIDS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1514. 1975.
DICK, RICHARD DEAN (M-2)

18-19
IMPROVED, IMPLICIT RADIATION HYDRODYNAMICS.
J. COMPUT. PHYS., V.19, P.280-96. 1975. (LA-UR-74-1514)*
SANDFORD, MAXWELL T. (J-10)
ANDERSON, RICHARD C. (J-10)
HORAK, HENRY G. (J-10)

18-20
INVARIANT COMPTON KERNELS FOR RADIATION TRANSPORT.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21, P.528-9. 1975.
WIENKE, BRUCE R. (T-1)

18-21
LASL CALCULATIONS OF LOW ALTITUDE FIREBALLS USING THE ICED ALE METHOD.
ABSTRACT PUBLISHED IN:
ATMOSPHERIC EFFECTS. 1973. SYMPOSIUM, SAN DIEGO, CA, ABSTRACTS OF PAPERS, P.66. DNA, 1973. (DNA-LA-10)
RUPPEL, HANS M. (T-3)
GENTRY, RICHARD A. (T-3)
JONES, ERIC M. (J-10)

18-22
LATE TIME PHENOMENOLOGY PREDICTIONS WITH AN ALMOST LAGRANGIAN CODE.
ABSTRACT PUBLISHED IN:
ATMOSPHERIC EFFECTS. 1973. SYMPOSIUM, SAN DIEGO, CA, ABSTRACTS OF PAPERS, P.71. DNA, 1973. (DNA-LA-10)
BRACKBILL, JEREMIAH U. (T-3)
SUTHERLAND, C. DEXTER (J-10)
TIERNEY, MARTIN S. (J-10)

18-23
LOW ALTITUDE FIREBALL CALCULATIONS. 1. COMPARISONS WITH DATA FOR DOMINIC EVENTS.
ABSTRACT PUBLISHED IN:
ATMOSPHERIC EFFECTS. 1973. SYMPOSIUM, SAN DIEGO, CA, ABSTRACTS OF PAPERS, P.160. DNA, 1973. (DNA-LA-10)
KODIS, JOHN W. (J-10)
ZINN, JOHN (J-10)

18-24
MEAN, MEAN SQUARE AND MOST PROBABLE MOMENTUM FOR A RELATIVISTIC MAXWELLIAN ENSEMBLE.
AM. J. PHYS., V.43, P.317-8. 1975. (LA-UR-74-1144)*
WIENKE, BRUCE R. (T-1)

18-25
MULTI-PHASE FLOW METHODS FOR REACTOR SAFETY ANALYSIS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21, P.217-8. 1975.
BUTLER, THOMAS D. (T-3)

18-26
NUMERICAL CALCULATION OF FLASHING FROM LONG PIPES USING A TWO FIELD MODEL.
LASL, 1975. 11P. (LA-6104-MS)
RIVARD, WILLIAM C. (T-3)
TORREY, MARTIN D. (T-3)

18-27
NUMERICAL CALCULATION OF MULTIPHASE FLUID FLOW.
J. COMPUT. PHYS., V.17, P.19-52. 1975. (LA-UR-74-1028)*
HARLOW, FRANCIS H., JR. (T-3)
AMSDEN, ANTHONY A. (T-3)

18-28
NUMERICAL CALCULATION OF THE CYLINDER TEST.
LASL, 1975. 31P. (LA-5906)
FICKETT, WILDON (T-4)
SCHERR, LAWRENCE M. (TD-4)

18-29
NUMERICAL CALCULATION OF TWO PHASE FLOWS.
LASL, 1975. 12P. (LA-5942-MS)
TRAVIS, JOHN R. (T-3)
HARLOW, FRANCIS H., JR. (T-3)
AMSDEN, ANTHONY A. (T-3)

18-30
NUMERICAL METHOD FOR STUDYING THE CIRCULATION PATTERNS OF A FLUID IN A CAVITY.
LASL, 1975. 40P. (LA-6014)
STEPHANI, LINDA M. (T-3)
BUTLER, THOMAS D. (T-3)

18-31
NUMERICAL METHODS FOR SOLUTION OF THE INTEGRAL EQUATIONS OF MULTI-DIMENSIONAL RADIATION TRANSPORT.
LASL, 1965. DECLASSIFIED 1972. 24P.
(LA-3376)
FREEMAN, BURTON E.

18-32
NUMERICAL METHODS IN FLUID DYNAMICS, 1974. 4TH INTERNATIONAL CONFERENCE, BOULDER. PROCEEDINGS. LECTURE NOTES IN PHYSICS, V.35.
SPRINGER-VERLAG, 1975. 457P.
(532:N971M 4TH)
RICHTMYER, ROBERT D. (T-7) ED.

18-33
NUMERICAL SIMULATION OF FLOW IN AN UNWRAPPED DOWNCOMER.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC. V-22, P.250-1, 1975.
BUTLER, THOMAS D. (T-3)
ROMERO, NICK C. (T-3)

18-34
ONE DIMENSIONAL CALCULATIONS OF SHOCK LOADED POLYCRYSTALLINE BERYLLIUM.
LASL, 1975. 9P. (LA-5943-MS)
SWANSON, RICHARD E. (T-4)

18-35
PAD, A ONE DIMENSIONAL LAGRANGIAN HYDROCODE.
LASL, 1975. 32P. (LA-5910-MS)
FICKETT, WILDON (T-4)

18-36
PARTIAL WAVE EXPANSION OF THE INDUCED COLLISION KERNEL.
NUCL. SCI. ENG., V.56, P.201-2. 1975.
(LA-UR-74-927)*
WIENKE, BRUCE R. (T-1)

18-37
PARTICULATE TRANSPORT IN THREE DIMENSIONAL FLUID FLOWS THROUGH CURVED AND BIFURCATING VESSELS.
TIC, 1975. 8P. MN (LA-UR-75-528)
PRACHT, WILLIAM E. (T-3)

18-38
RADIATIVE TRANSFER APPROXIMATIONS IN FIREBALL MODELING.
ABSTRACT PUBLISHED IN:
ATMOSPHERIC EFFECTS. 1973. SYMPOSIUM, SAN DIEGO, CA, ABSTRACTS OF PAPERS, P.156. DNA, 1973. (DNA-LA-10)
DAVIS, CECIL G. (J-15)
BUNKER, SUSAN S. (J-15)

18-39
REFLECTED RAREFACTIONS, DOUBLE REGULAR REFLECTIONS, AND MACH WAVES IN ALUMINUM AND BERYLLIUM.
TIC, 1975. 21P. MN (LA-UR-75-934)
NEAL, TIMOTHY R. (M-2)

18-40
RELATIVISTIC COMPTON SCATTERING FROM MOVING ELECTRONS AND ANGULAR MOMENTS.
J. QUANT. SPECTROSC. RADIAT. TRANSFER, V.15, P.151-7. 1975. (LA-UR-74-914)*
WIENKE, BRUCE R. (T-1)

18-41
RICE: A COMPUTER PROGRAM FOR MULTICOMPONENT CHEMICALLY REACTIVE FLOWS AT ALL SPEEDS.
LASL, 1975. 136P. (LA-5812)
RIVARD, WILLIAM C. (T-3)
FARMER, OTIS A. (T-3)
BUTLER, THOMAS D. (T-3)

18-42
SHOCK COMPRESSION OF LIQUID AMMONIA.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.48. 1975.
HARVEY, WILLIAM B. (M-4)
DICK, RICHARD DEAN (M-4)

18-43
SHOCK HYDRODYNAMICS.
LASL, 1944. DECLASSIFIED 1972. 129P.
(LA-165)
HIRSCHFELDER, JOSEPH O.

18-44
SHOCK WAVE TECHNIQUES FOR THE EXAMINATION OF PHASE TRANSITIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.368. 1975.
CARTER, WILLIAM J. (M-6)

18-45
SIMULATION OF THE TWO STREAM INSTABILITY WITH FOUR NUMERICAL MODELS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.18, P.632. 1973.
BROWN, D. I.
GITOMER, STEVEN J. (Q-6)
LEWIS, H. RALPH, JR. (Q-6)

18-46
SINGLE BURST CALCULATIONS WITH YAQUI.
ABSTRACT PUBLISHED IN:
ATMOSPHERIC EFFECTS. 1973. SYMPOSIUM, SAN DIEGO, CA, ABSTRACTS OF PAPERS, P.195. DNA, 1973. (DNA-LA-10)
JONES, ERIC M. (J-10)
GENTRY, RICHARD A. (T-3)
RUPPEL, HANS M. (T-3)

18-47
SOLA: A NUMERICAL SOLUTION ALGORITHM FOR TRANSIENT FLUID FLOWS.
LASL, 1975. 50P. (LA-5852)
HIRT, CYRIL W., JR. (T-3)
NICHOLS, BILL D. (T-3)
ROMERO, NICK C. (T-3)

18-48
THEORETICAL AND EXPERIMENTAL STUDIES OF STRONG SHOCK WAVES IN AIR.
ABSTRACT PUBLISHED IN:
ATMOSPHERIC EFFECTS. 1973. SYMPOSIUM. SAN DIEGO, CA. ABSTRACTS OF PAPERS. P.154. DNA, 1973. (DNA-LA-10)
ZINN, JOHN (J-10)
DAVIS, WILLIAM C. (M-3)
SCHWARTZ, THOMAS R. (M-3)
ANDERSON, RICHARD C. (J-10)

18-49
THREE DIMENSIONAL COMPUTER ANALYSIS OF SHOCK LOADS ON A SIMPLE STRUCTURE.
BRL, 1975. 16P. (BRL-CR-219)
GENTRY, RICHARD A. (T-3)
STEIN, LELAND R. (T-3)
HIRT, CYRIL W., JR. (T-3)

18-50
THREE DIMENSIONAL MULTIBURST SIMULATION USING THE ICED ALE METHOD.
ABSTRACT PUBLISHED IN:
ATMOSPHERIC EFFECTS. 1973. SYMPOSIUM. SAN DIEGO, CA. ABSTRACTS OF PAPERS. P.68. DNA, 1973. (DNA-LA-10)
PRACHT, WILLIAM E. (T-3)

18-51
TIME DEPENDENT TURBULENT MIXING.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.7, P.402. 1975.
CLOUTMAN, LAWRENCE D. (T-3)

18-52
TRANSIENT DYNAMICS OF CHEMICALLY REACTIVE GASEOUS MIXTURES WITH TURBULENCE.
NUMERICAL METHODS IN FLUID DYNAMICS. 1974. 4TH INTERNATIONAL CONFERENCE. BOULDER. PROC., LECTURE NOTES IN PHYSICS, V.35, P.334-40. SPRINGER-VERLAG, 1975. (532:N971M 4TH)
RIVARD, WILLIAM C. (T-3)
BUTLER, THOMAS D. (T-3)
FARMER, OTIS A. (T-3)

18-53
TWO DIMENSIONAL EFFECTS ON THERMAL OUTPUT.
ABSTRACT PUBLISHED IN:
ATMOSPHERIC EFFECTS. 1973. SYMPOSIUM. SAN DIEGO, CA. ABSTRACTS OF PAPERS. P.159. DNA, 1973. (DNA-LA-10)
JONES, ERIC M. (J-10)

18-54
TWO DIMENSIONAL FIREBALL CALCULATIONS.
ABSTRACT PUBLISHED IN:
ATMOSPHERIC EFFECTS. 1973. SYMPOSIUM. SAN DIEGO, CA. ABSTRACTS OF PAPERS. P.158. DNA, 1973. (DNA-LA-10)
SANDFORD, MAXWELL T. (J-10)
ANDERSON, RICHARD C. (J-10)

18-55
WIND FLOW OVER SIMULATED STRUCTURES FOR MARTIAN AND TERRESTRIAL ATMOSPHERES.
TIC, 1975. 4P. MN (LA-UR-74-1202)
JONES, ERIC M. (J-10)
KIRBY, THOMAS B.

18-56
YOKIFER: A TWO DIMENSIONAL HYDRODYNAMICS AND RADIATION TRANSPORT PROGRAM.
LASL, 1975. 207P. (LA-5704-MS)
ANDERSON, RICHARD C. (J-10)
SANDFORD, MAXWELL T. (J-10)

19. INSTRUMENTS

19-1
AEROSPACE INSTRUMENTATION. 1973. 19TH INTERNATIONAL SYMPOSIUM. LAS VEGAS. NV. PROCEEDINGS. INSTRUMENTATION IN THE AEROSPACE INDUSTRY. V.19.
ISA. 1973. 312P. (681:A252SY 19TH)
WASHBURN. BEVERLY W. (L-1) ED.

19-2
CONCEPTUAL DESIGN OF A THETA PINCH POWER PLANT.
ENGINEERING PROBLEMS OF FUSION RESEARCH. 1973. 5TH SYMPOSIUM. PRINCETON. NJ. PROC., P.116-24. IEEE. 1974. (537:S989EN 1973)
COULTAS. THOMAS A.
DAUZVARDIS. P.
KRAKOWSKI. ROBERT A. (CTR-7)

19-3
DELAY LINE READOUT OF ANODE PLANES IN PROPORTIONAL CHAMBERS.
NUCL. INSTR. METHODS. V.120. P.153-6. 1974. (LA-UR-74-633)*
ALSO PUBLISHED AS:
TIC. 1975. 15P. MN (LA-UR-74-633)
LEE. DAVID M. (MP-10)
THIESSEN. HENRY A. (MP-10)
SOBOTTKA. STANLEY (MP-10)

19-4
DEPENDENCE OF LITHIUM DRIFTED GERMANIUM DETECTOR EFFICIENCY SLOPE ON SOURCE TO DETECTOR DISTANCE.
NUCL. INSTRUM. METHODS. V.127. P.371-2. 1975.
GRANT. PATRICK M. (CNC-11)

19-5
DEVELOPMENTS IN SEARCH AND SURVEY INSTRUMENTATION.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21. P.129-30. 1975.
CHAMBERS. WILLIAM H. (A-2)

19-6
ENERGETIC PARTICLE DETECTOR FOR A SYNCHRONOUS SATELLITE.
IEEE TRANS. NUCL. SCI., V.NS-22. NO.1. P.575-81. 1975.
AIELLO. WILLIAM P. (E-3)
BELIAN. RICHARD D. (P-4)
CONNER. JERRY P. (P-4)
HIGBIE. PAUL R. (P-4)
MARTIN. WILLIAM B. (E-3)
SINGER. SIDNEY (L-1)

19-7
FABRICATION AND CALIBRATION OF THIN PLASTIC SCINTILLATOR X RAY DETECTORS.
TIC. 1975. 6P. MN (LA-UR-74-1888)
ALSO PUBLISHED IN:
IEEE TRANS. NUCL. SCI., V.NS-22. NO.1. P.88-92. 1975.
LYONS. PETER B. (J-14)
LIER. DOUGLAS W. (J-14)

19-8
HOLOGRAPHY APPLIED TO STRUCTURAL COMPONENTS.
OPT. ENG., V.14. P.460-9. 1975. (LA-UR-75-560)*
SOLLID. JON E. (L-1)

19-9
INSTRUMENTATION. 1974. 20TH INTERNATIONAL SYMPOSIUM. ALBUQUERQUE. NM. PROCEEDINGS. INSTRUMENTATION IN THE AEROSPACE INDUSTRY. V.20. ADVANCES IN TEST MEASUREMENT. V.11.
ISA. 1974. 458P. (681:A252SY 20TH)
WASHBURN. BEVERLY W. (***) ED.

19-10
INTEGRATING ECLIPSE OPTICS INTO THE AEC AIR FORCE FLYING LABORATORY.
TIC. 1974. 16P. MN (LA-UR-74-1167)
ALSO PUBLISHED IN:
EFFECTIVE SYSTEMS INTEGRATION AND OPTICAL DESIGN. 1974. SEMINAR. SAN DIEGO. PROC., V.54. P.27-31. SPIE. 1975. (535:E27S) (LA-UR-74-1167)*
BRIXNER. BERLYN (M-5)

19-11
INTRINSICALLY SAFE STRAIN GAGE MONITORING SYSTEM.
TIC. 1975. 6P. MN (LA-UR-75-374)
ALSO PUBLISHED IN:
INSTRUMENTATION. 1975. 21ST INTERNATIONAL SYMPOSIUM. PHILADELPHIA. PROC., INSTRUMENTATION IN THE AEROSPACE INDUSTRY. V.21. P.247-9. ISA. 1975. (681:A252SY 21ST)
MATHEWS. ROBERT W. (WX-3)

19-12
INVESTIGATION OF MICRO-CHANNEL PLATES AS PARALLEL BORE ELECTRON COLLIMATORS FOR USE IN A PROXIMITY FOCUSED ULTRA FAST STREAK TUBE.
NUCL. INSTRUM. METHODS. V.127. P.87-92. 1975. (LA-UR-75-609)*
LIEBER. ALBERT (L-4)
BENJAMIN. ROBERT F. (L-4)
SUTPHIN. HOWARD D. (L-4)
WEBB. CLINTON B. (L-4)

19-13
MANUAL SAMPLE GRINDER/POLISHER.
INTERNATIONAL METALLOGRAPHIC SOCIETY. 1974. 7TH ANNUAL TECHNICAL MEETING, GATLINBURG, TN. PROC., MICROSTRUCTURAL SCIENCE, V.3, P.357-61. AMERICAN ELSEVIER, 1975. (669:I61MI 7TH V.3:A) (LA-UR-74-474)*
HOFFMAN, C. GORDON (L-4)

19-14
MICRO-CHANNEL PLATE AS A PARALLEL BORE COLLIMATOR FOR SOFT X RAY IMAGING.
NUCL. INSTRUM. METHODS, V.125, P.553-6. 1975. (LA-UR-74-1680)*
LIEBER, ALBERT (L-4)
BENJAMIN, ROBERT F. (L-4)
LYONS, PETER B. (J-14)
WEBB, CLINTON B. (L-4)

19-15
NOISE IMMUNITY IN DIGITAL COMMUNICATION BY USE OF ORTHOGONAL SIGNAL CORRELATION AND WALSH FUNCTIONS.
LASL, 1975. 10P. (LA-5896)
VOGEL, HERBERT F. (E-DOR)

19-16
PROPER CALCULATION OF THE FRACTIONAL ORDER NUMBER AT THE CENTER OF A FABRY-PEROT INTERFEROMETER FRINGE SYSTEM.
J. OPT. SOC. AM., V.65, P.814-6. 1975. (LA-UR-74-1905)*
STEINHAUS, DAVID W. (CMB-1)
KLINE, JOHN VIRGIL (CMB-1)

19-17
QUANTUM LIMITED NEAR INFRARED VIDICON CAMERA SYSTEM.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.7, P.269-70. 1975.
SANDFORD, MAXWELL T. (J-10)
JEKOWSKI, JOHN P.

19-18
SHORT RANGE RADIO TELEMETRY FOR ELECTRONIC IDENTIFICATION USING MODULATED RF BACKSCATTER.
PROC. IEEE, V.63, P.1260-1. 1975. (LA-UR-75-204)*
KOELLE, ALFRED R. (E-3)
DEPP, STEVEN W. (E-DO)
FREYMAN, ROBERT W. (E-4)

20. LASERS

20-1
ABSORPTION SPECTRUM OF URANIUM HEXAFLUORIDE FROM 2000 TO 4200 ANGSTROMS.
SPECTROSC. LETT., V.8, P.521-4. 1975.
(LA-UR-75-792)*
DE POORTER, GERALD L. (L-8)
ROFER-DE POORTER, CHERYL K. (L-5)

20-2
ACOUSTIC MEASURING SYSTEM FOR DETERMINING THE BREAKING STRENGTH OF MICROBALLOONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1247. 1975.
MALTRUD, H. RICHARD (L-4)
FARNUM, EUGENE H. (L-4)
FRIES, RALPH JAY (L-4)

20-3
ALPHA PARTICLE ENERGY ABSORPTION IN A REACTING DEUTERIUM - TRITIUM SPHERE.
PHYS. FLUIDS, V.18, P.332-4. 1975.
(LA-UR-74-1107)*
EVANS, G. FOSTER (TD-1)
COOPER, RALPH S. (L-DO)

20-4
AMPLIFICATION OF MULTILINE/MULTIBAND CARBON DIOXIDE LASER PULSES.
APPL. PHYS. LETT., V.27, P.591-2. 1975.
(LA-UR-75-1295)*
FIGUEIRA, JOSEPH F. (L-1)
LADISH, JOSEPH S. (L-1)
SCHAPPERT, GOTTFRIED T. (L-1)
THOMAS, SCOTT J. (L-1)

20-5
AMPLIFICATION OF THE 1.32 MICRON LINE IN NEODYMIUM : YAG.
IEEE J. QUANTUM ELECTRON., V.QE-11, P.371-2. 1975. (LA-UR-74-1911)*
LOREE, THOMAS R. (L-7)
SHERMAN, LAWRENCE M. (L-7)
THORNE, JAMES M. (L-7)

20-6
AMPLIFIERS INVOLVING TWO PHOTON ENERGY EXTRACTION SCHEMES.
PHYS. REV., V.A12, P.1048-61. 1975.
(LA-UR-75-80)*
CARMAN, ROBERT L. (L-4)

20-7
ANALYSIS OF HOMOPOLAR GENERATORS AND SUPERCONDUCTING INDUCTIVE ENERGY STORAGE SYSTEMS AS POWER SUPPLIES FOR HIGH ENERGY, SPACE BASED LASERS.
LASL, 1975, 26P. (LA-5837-MS)
GILBERT, JOEL S. (T-1)
KERN, EDWARD A. (L-5)

20-8
ANOMALOUS DISPERSION EFFECTS ON PULSE PROPAGATION IN HIGH PRESSURE CARBON DIOXIDE AMPLIFIERS.
APPL. PHYS. LETT., V.26, P.314-5. 1975. (LA-UR-74-1765)*
SCHAPPERT, GOTTFRIED T. (L-1)
HERBST, MARK J. (L-1)

20-9
APPROXIMATE SPHERICAL BLAST THEORY INCLUDING SOURCE MASS.
J. APPL. PHYS., V.46, P.1171-4. 1975.
(LA-UR-74-1337)*
FREIWALD, DAVID A. (L-5)
AXFORD, ROY A. (L-5)

20-10
BACKSCATTER MEASUREMENTS FROM LASER PRODUCED PLASMAS AT 10.6 MICRONS.
APPL. PHYS. LETT., V.27, P.11-3. 1975.
(LA-UR-75-212)*
MITCHELL, KENNETH B. (L-1)
STRATTON, THOMAS F. (L-1)
WEISS, PAUL B. (L-1)

20-11
BETA ABSORPTION IN TRITIATED TARGETS AND X RAY COUNTING CORRECTIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1247. 1975.
MUELLER, MARVIN M. (L-4)

20-12
CALCULATED PERFORMANCE OF STRUCTURED LASER FUSION PELLETS.
NUCL. FUSION, V.15, P.1031-43. 1975.
(LA-UR-75-260)*
MASON, RODNEY J. (T-6)

20-13
CALCULATION OF X RAY PINHOLE PHOTOGRAPHS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1237. 1975.
MALONE, ROBERT C. (T-6)
FRALEY, GARY S. (T-6)
CRANFILL, CHARLES W. (T-6)
MORSE, RICHARD L. (T-DO)

20-14
CAN WE BEAT FLUORINE AND HYDROGEN FOR HYDROGEN FLUORIDE LASERS?
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-11, P.690. 1975.
SCHOTT, GARRY L. (L-3)
RABIDEAU, SHERMAN W. (CNC-2)
NOWAK, ANDREW V. (L-3)
GETZINGER, RICHARD W. (L-3)

20-15
CARBON DIOXIDE LASER DEVELOPMENT AND ASYMMETRY IN LASER DRIVEN IMPLOSIONS.
TIC, 1975. 16P. MN (LA-UR-74-1883)
BENJAMIN, ROBERT F. (L-4)
BOYER, KEITH (L-DO)
MC CALL, GENE H. (L-4)
ET AL

20-16
COHERENT MULTIPLE PHOTON PUMPING OF SIMPLE QUANTUM MECHANICAL SYSTEMS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1282. 1975.
ELLIOTT, C. JAMES (T-6)
FELDMAN, BARRY J. (T-6)

20-17
COLD CATHODE INVESTIGATION.
LASL, 1975. 5P. (LA-6009-MS)
RINK, JOHN P. (L-7)

20-18
COLLECTIVE ION ACCELERATION VIA THE TWO STREAM INSTABILITY.
ANN. N. Y. ACAD. SCI., V.251, P.582-9. 1975. (LA-UR-74-341)*
GODFREY, BRENDAN B. (T-6)
THODE, LESTER E. (T-6)

20-19
COLLISIONAL DAMPING OF LANGMUIR WAVES IN ONE DIMENSIONAL PLASMA SIMULATIONS.
PLASMA PHYS., V.17, P.317-26. 1975. (LA-UR-73-330)*
GODFREY, BRENDAN B. (T-6)
NEWBERGER, BARRY S. (TD-8)

20-20
COMPUTER SIMULATION OF A DEUTERIUM - TRITIUM PELLET MICROEXPLOSION IN A MAGNETICALLY PROTECTED LASER FUSION REACTOR.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1238. 1975.
FREIWALD, DAVID A. (L-5)
DICKMAN, DONALD O. (C-3)
GOLDSTEIN, JOHN C. (T-6)

20-21
DAMAGE THRESHOLDS IN ZINC SELENIDE, A/R COATED SODIUM CHLORIDE AND MICROMACHINED MIRRORS BY 10.6 MICRON MULTIJOULE, NANOSECOND PULSES.
LASER INDUCED DAMAGE IN OPTICAL MATERIALS. 1974. SYMPOSIUM, BOULDER, CO. PROC., P.53-8. NBS. 1974. (535:D154L 6TH)
STARK, EUGENE E. (L-1)
REICHELT, WALTER H. (L-1)

20-22
DETERMINATION OF ARGON OXIDE 558 NM LASER PARAMETERS.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-11, P.D88. 1975.
HUGHES, WILLIAM M. (L-2)
OLSEN, T.
HUNTER, ROBERT

20-23
DEVELOPMENT OF AN ALPHA PARTICLE AND PROTON DETECTOR FOR LASER - FUSION STUDIES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1318. 1975.
TAN, TAI HO (L-4)
MC CALL, GENE H. (L-4)
WILLIAMS, ARTHUR H. (L-4)

20-24
DIFFRACTION EFFECTS AND OPTICAL QUALITY IN THE MULTISTAGE AMPLIFICATION OF NANOSECOND CARBON DIOXIDE PULSES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1238. 1975.
GOLDSTEIN, JOHN C. (T-6)
DICKMAN, DONALD O. (C-3)

20-25
DIRECT EVALUATION OF TRANSIENT SURFACE TEMPERATURES AND HEAT FLUXES.
LASL, 1975. 8P. (LA-6051)
AXFORD, ROY A. (L-5)

20-26
DIRECT NUCLEAR PUMPING OF A HELIUM - XENON LASER.
APPL. PHYS. LETT., V.26, P.327-8. 1975. (LA-UR-74-1679)*
HELMICK, HERBERT H. (P-5)
FULLER, JAMES L.
SCHNEIDER, RICHARD T.

20-27
DIRECT SOLUTION OF THE DISCRETE POISSON EQUATION IN 0(N-SQUARED) OPERATIONS.
SIAM REV., V.17, P.412-5. 1975. (LA-UR-74-950)*
DORR, FRED W. (C-DO)

20-28
DISPERSIVE TEMPORAL COMPRESSION OF THE ENERGY IN LASER PULSES: A REVIEW.
TIC, 1975. 6P. MN (LA-UR-75-389)
FISHER, ROBERT A. (L-2)

20-29
EFFECT OF REFRACTIVE INDEX NONLINEARITY ON THE OPTICAL QUALITY OF HIGH POWER LASER BEAMS.
IEEE J. QUANTUM ELECTRON., V.QE-11, P.225-30. 1975. (LA-UR-74-762)*
SUYDAM, BERGEN R. (T-7)

20-30
EFFECT OF SECONDARY ELECTRONS ON CHARGE COLLECTOR MEASUREMENT OF A LASER PRODUCED PLASMA.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1335. 1975.
EHLER, A. WAYNE (L-4)

20-31
EFFECT OF THE AMBIPOLAR ELECTRIC FIELD ON THE TRANSPORT OF ENERGETIC ELECTRONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1378. 1975.
COMLY, JACK C. (T-6)
FORSLUND, DAVID W. (T-6)
KINDEL, JOSEPH M. (T-6)
LEE, KENNETH (T-6)
LINDMAN, ERICK L. (T-6)

20-32
ELECTRIC FIELD INDUCED HARMONIC GENERATION AS A PROBE OF THE FOCAL REGION OF A LASER BEAM.
APPL. OPT., V.14, P.336-42. 1975.
BIGIO, IRVING J. (***)
FINN, R. S.
WARD, J. F.

20-33
ELECTRICAL REQUIREMENTS OF XENON LASERS.
LASL, 1975. 7P. (LA-5815-MS)
GILBERT, JOEL S. (T-1)
STAPLETON, ROBERT E. (L-1)

20-34
ELECTRICALLY IMPLODED CYLINDRICAL FUSION TARGETS.
NUCL. FUSION, V.15, P.1183-4. 1975.
(LA-UR-75-1046)*
VARNUM, WILLIAM S. (TD-2)

20-35
ELECTROMAGNETIC SCATTERING INSTABILITIES IN WEAKLY INHOMOGENEOUS UNDERDENSE PLASMA.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1378. 1975.
KINDEL, JOSEPH M (T-6)
FORSLUND, DAVID W. (T-6)
LEE, KENNETH (T-6)
LINDMAN, ERICK L. (T-6)

20-36
EMITTED ELECTRON SPECTRA FROM PLASMAS PRODUCED WITH NEODYMIUM AND CARBON DIOXIDE LASERS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1318. 1975.
GIOVANIELLI, DAMON V. (L-4)
KEPHART, JOHN F. (L-4)
WILLIAMS, ARTHUR H. (L-4)

20-37
ENERGY DEPOSITION IN A TWO DIMENSIONAL LCTR MODEL.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.15-6. 1975.
BOSLER, GERALD E. (T-1)

20-38
ENERGY DEPOSITION RATES IN A LASER - FUSION REACTOR.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21, P.16-7. 1975.
BOSLER, GERALD E. (T-1)
FRANK, THURMAN G. (L-5)

20-39
ENGINEERING CONCEPTS FOR LASER FUSION REACTOR APPLICATIONS.
TIC, 1975. 18P. MN (LA-UR-75-736)
BOOTH, LAWRENCE A. (L-5)
FRANK, THURMAN G. (L-5)
FINCH, FRANCIS T. (L-5)

20-40
EQUAL AREA PROPERTY OF NARROW RESONANCES INDUCED IN COUPLED DOPPLER BROADENED SYSTEMS BY INTENSE LASER RADIATION.
PHYS. REV., V.A12, P.1013-8. 1975.
FELDMAN, BARRY J. (***)
FELD, M. S.

20-41
EXPLOSIVE LASER.
FILED 1974, PATENTED SEP. 9, 1975.
(U. S. PATENT 3,904,985)
ROBINSON, C. PAUL (L-3)
JENSEN, REED J. (L-3)
DAVIS, WILLIAM C. (M-3)
SULLIVAN, J. AL (L-6)

20-42
EXTERNAL PRESSURIZATION AS A MEANS OF UPGRADING GLASS MICROBALLOONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1247. 1975.
FARNUM, EUGENE H. (L-4)
FRIES, RALPH JAY (L-4)

20-43
FABRICATION OF LITHIUM DEUTERIUM (0.5) TRITIUM (0.5) MICROSPHERES FOR USE AS LASER FUSION TARGETS.
J. NUCL. MATER., V.57, P.1-10. 1975.
(LA-UR-74-1898)*
CARSTENS, DEAN H. W. (CMB-3)
FARNUM, EUGENE H. (L-4)
FRIES, RALPH JAY (L-4)
SHEINBERG, HASKELL (CMB-6)

20-44
FAST FRAMING AND X RAY PINHOLE CAMERA TECHNIQUES FOR STUDY OF LASER GENERATED PLASMAS.
TIC, 1975. 11P. MN (LA-UR-74-1424)
LIEBER, ALBERT (L-4)
BENJAMIN, ROBERT F. (L-4)

20-45
FREEZING AND MELTING DEUTERIUM IN MICROBALLOONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1247. 1975.
SYDORIAK, STEPHEN G. (Q-26)
KOHLER, DAVID R. (L-4)

20-46
GAIN RECOVERY AFTER SATURATION IN SHORT PULSE CARBON DIOXIDE AMPLIFIERS.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-11, P.D75-6. 1975.
SCHAPPERT, GOTTFRIED T. (L-1)
LADISH, JOSEPH S. (L-1)
LELAND, WALLACE T. (L-1)
KIRCHER, MARY (L-1)

20-47
GENERATION OF LASER PULSES FOR OPTIMUM ABLATIVE COMPRESSIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1286. 1975.
CARMAN, ROBERT L. (L-4)

20-48
HIGH ENERGY IONS FROM A CARBON DIOXIDE LASER PRODUCED PLASMA.
J. APPL. PHYS., V.46, P.2464-7. 1975.
(LA-UR-74-1529)*
EHLER, A. WAYNE (L-4)

20-49
HIGH RESOLUTION Q-BRANCH SPECTRUM FOR CARBON DIOXIDE AT 618 MILLIMETERS.
J. MOL. SPECTROSC., V.54, P.328-30. 1975. (LA-UR-74-1163)*
ALDRIDGE, JACK P. (L-3)
HOLLAND, REDUS F. (L-3)
FLICKER, HERBERT J. (L-DOT)
NILL, KENNETH W.
HARMON, T. C.

20-50
HIGH SPEED DIGITIZING WITH CAMAC.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1369. 1975.
WEISS, PAUL B. (L-1)
HOPPER, GORDON L.

20-51
HYDRODYNAMICS AND BURN OF OPTIMALLY IMPLODED DEUTERIUM - TRITIUM SPHERES.
PHYS. FLUIDS, V.18, P.814-28. 1975.
(LA-UR-74-807)*
MASON, RODNEY J. (T-6)
MORSE, RICHARD L. (T-6)

20-52
HYDROGEN FLUORIDE CHEMICAL LASER.
TIC, 1975. 20P. MN (LA-UR-75-257)
JENSEN, REED J. (L-DO)

20-53
HYDROGEN ISOTOPE SEPARATION FROM WATER.
FILED 1973, PATENTED SEP.9, 1975.
(U. S. PATENT 3,904,500)
JENSEN, REED J. (L-3)

20-54
IMPLOSION, STABILITY, AND BURN OF MULTISHELL FUSION TARGETS.
LASL, 1975. 8P. (LA-5783-MS)
FRALEY, GARY S. (T-6)
GULA, WILLIAM P. (T-6)
HENDERSON, DALE B. (T-6)
MC CRORY, ROBERT L. (T-6)
MALONE, ROBERT C. (T-6)
MASON, RODNEY J. (T-6)
MORSE, RICHARD L. (T-6)

20-55
INDICATIONS OF STRONGLY FLUX LIMITED ELECTRON THERMAL CONDUCTION IN LASER TARGET EXPERIMENTS.
PHYS. REV. LETT., V.34, P.721-4. 1975.
(LA-UR-74-1156)*
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.868. 1974.
MALONE, ROBERT C. (T-6)
MC CRORY, ROBERT L. (T-6)
MORSE, RICHARD L. (T-6)

20-56
INFLUENCE OF STANDING WAVE FIELDS ON THE LASER DAMAGE RESISTANCE OF DIELECTRIC FILMS.
TIC, 1975. 19P. MN (LA-UR-75-1646)
NEWNAM, BRIAN E. (L-2)
GILL, DENNIS H. (L-2)
FAULKNER, GEORGE E. (L-2)

20-57
INTERFEROMETRIC MEASUREMENTS OF THE NONLINEAR REFRACTIVE INDEX COEFFICIENT RELATIVE TO CARBON DISULFIDE IN LASER SYSTEM RELATED MATERIALS.
IEEE J. QUANTUM ELECTRON, V.QE-11, P.259-63. 1975.
MORAN, MICHAEL J.
SHE, CHIAO-YAO
CARMAN, ROBERT L. (***)

20-58
INTRODUCTION TO LASER FUSION.
LASL, 1975. 26P. (537:L879I)
FREIWALD, DAVID A. (L-5)
FRANK, THURMAN G. (L-5)

20-59
ION ACCELERATION BY THE RELATIVISTIC TWO STREAM INSTABILITY.
IEEE TRANS. PLASMA SCI., V.PS-3, NO.4, P.201-4. 1975. (LA-UR-74-1345)*
GODFREY, BRENDAN B. (T-6)
THODE, LESTER E. (T-6)

20-60
ION TAIL FILLING IN LASER FUSION TARGETS.
LASL, 1975. 9P. (LA-5917-MS)
HENDERSON, DALE B. (T-6)

20-61
ION WAVE TURBULENCE INDUCED BY AN EXPANDING MULTI-COMPONENT PLASMA.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1377. 1975.
FORSLUND, DAVID W. (T-6)
KINDEL, JOSEPH M. (T-6)
LEE, KENNETH (T-6)
LINDMAN, ERICK L. (T-6)

20-62
ISOTOPE SEPARATION.
ABSTRACT PUBLISHED IN:
J. OPT. SOC. AM., V.64, P.1356. 1974.
ROBINSON, C. PAUL (L-DO)

20-63
ISOTOPIC ENRICHMENT BY MULTIPLE ABSORPTION OF CARBON DIOXIDE LASER RADIATION.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-11, P.D103. 1975.
LYMAN, JOHN L. (L-8)
JENSEN, REED J. (L-DO)
RINK, JOHN P. (L-7)
ROBINSON, C. PAUL (L-DO)
ROCKWOOD, STEPHEN D. (L-8)

20-64
ISOTOPIC ENRICHMENT OF SULFUR HEXAFLUORIDE IN SULFUR -34 BY MULTIPLE ABSORPTION OF CARBON DIOXIDE LASER RADIATION.
APPL. PHYS. LETT., V.27, P.87-9. 1975.
(LA-UR-75-707)*
LYMAN, JOHN L. (L-8)
JENSEN, REED J. (L-DO)
RINK, JOHN P. (L-7)
ROBINSON, C. PAUL (L-DO)
ROCKWOOD, STEPHEN D. (L-8)

20-65
LASER - FUSION ELECTRIC GENERATING STATIONS BASED ON THE MAGNETICALLY PROTECTED REACTOR CAVITY.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.68-9. 1975.
FREIWALD, DAVID A. (L-5)
FRANK, THURMAN G. (L-5)
KERN, EDWARD A. (L-5)
BOOTH, LAWRENCE A. (L-5)

20-66
LASER - FUSION TARGET FABRICATION: APPLICATION OF A POLYMERIC ABLATOR COATING TO A BALL AND DISK TARGET DESIGN BY THE PHYSICAL VAPOR DEPOSITION OF POLYETHYLENE.
LASL, 1975. 2P. (LA-6063)
SIMONSIC, GARY A. (CMB-6)

20-67
LASER APPLICATION OF HEAT PIPE TECHNOLOGY IN ENERGY RELATED PROGRAMS.
TIC, 1975. 16P. MN (LA-UR-75-839)
CARBONE, ROBERT J. (L-DOT)

20-68
LASER DRIVEN IMPLOSION OF SPHERICAL DEUTERIUM - TRITIUM TARGETS TO THERMONUCLEAR BURN CONDITIONS.
PHYS. REV. LETTERS, V.30, P.89-92. 1973. (LA-DC-72-1387)*
ALSO PUBLISHED IN:
LASER PLASMAS AND NUCLEAR ENERGY, BY H. HORA, P.377-81. PLENUM, 1975.
(537:H811L)
CLARKE, JOHN S. (TD-8)
FISHER, HENRY N. (TD-8)
MASON, RODNEY J. (TD-8)

20-69
LASER DRIVEN SYNTHESIS OF BORON HYDROCHLORIDE FROM BORON CHLORIDE AND HYDROGEN.
CHEM. PHYS. LETT., V.34, P.542-5. 1975.
(LA-UR-75-830)*
ROCKWOOD, STEPHEN D. (L-8)
HUDSON, JERRY W. (L-8)

20-70
LASER FUSION EXPERIMENTS AT LOS ALAMOS. PART 2: THE LASL CARBON DIOXIDE SHORT PULSE OSCILLATOR - AMPLIFIER SYSTEM.
TIC, 1975. 9P. MN (LA-UR-74-1511)
BOYER, KEITH (L-DO)
FENSTERMACHER, CHARLES A. (L-1)
STRATTON, THOMAS F. (L-1)

20-71
LASER FUSION.
REPORT OF THE GOVERNOR'S TASK FORCE COMMITTEE ON NUCLEAR ENERGY, P.II-29-34. BUREAU OF ENGINEERING RESEARCH, UNM, 1975. (338:N532R)
GILLESPIE, CLAUDE M. (L-5)
FREIWALD, DAVID A. (L-5)

20-72
LASER FUSION.
HIGH ENERGY LASERS AND THEIR APPLICATIONS. 1973. SUMMER SCHOOL, CRYSTAL MOUNTAIN, WA. PAPERS, PHYSICS OF QUANTUM ELECTRONICS, V.I, P.391-406. ADDISON-WESLEY, 1974. (535:H638E)
MORSE, RICHARD L. (T-6)

20-73
LASER FUSION: A NEW THERMONUCLEAR POWER CONCEPT.
PHYS. TEACHER, V.13, P.87-92. 1975.
(LA-UR-74-154)*
COOPER, RALPH S. (L-DO)

20-74
LASER FUSION: AN OVERVIEW.
TIC, 1975. 19P. MN (LA-UR-75-660)
ALSO PUBLISHED IN:
ANN. N. Y. ACAD. SCI., V.267, P.117-25. 1976.
BOYER, KEITH (L-DO)

20-75
LASER INDUCED CHEMILUMINESCENCE OF BORON TRICHLORIDE/HYDROGEN SULFIDE MIXTURES.
CHEM. PHYS., V.10, P.453-7. 1975.
(LA-UR-75-684)*
ROCKWOOD, STEPHEN D. (L-8)

20-76
LASER INDUCED INSTABILITIES AND ANOMALOUS ABSORPTION IN DENSE PLASMAS.
TIC, 1973. 25P. MN (LA-UR-73-1123)
ALSO PUBLISHED IN:
LASER INTERACTION AND RELATED PLASMA PHENOMENA. 1973. 3RD WORKSHOP, TROY, NY. PROC., P.267-89. PLENUM, 1974.
(535:L343IN 3RD V.3A)
ALSO PUBLISHED IN:
LASER PLASMAS AND NUCLEAR ENERGY, BY H. HORA, P.249-71. PLENUM, 1975.
(537:H811L)
DUBOIS, DONALD F. (T-6)

20-77
LASER INITIATED KRYTRON SWITCHED BLUMLEIN STRUCTURE FOR PULSE SELECTION.
REV. SCI. INSTRUM., V.46, P.1333-4. 1975. (LA-UR-75-941)*
HYER, RONALD C. (L-2)
SUTPHIN, HOWARD D. (L-4)
WINN, KENNETH R. (L-2)

20-78
LASER ISOTOPE SEPARATION.
TIC, 1975. 20P. MN (LA-UR-75-642)
ALSO PUBLISHED IN:
ANN. N. Y. ACAD. SCI., V.267, P.81-92. 1976. (LA-UR-75-642)*
ROBINSON, C. PAUL (L-DO)

20-79
LASER PHASE TRANSITION ANALOGY: APPLICATION TO FIRST ORDER TRANSITIONS.
OPT. COMMUN., V.15, P.13-6. 1975.
SCOTT, J. F.
SARGENT, M.
CANTRELL, CYRUS D., III (L-DOT)

20-80
LASER PROGRAM AT LASL, JULY 1 - DECEMBER 31, 1974.
LASL, 1975. 142P. (LA-5919-PR)
SKOBERNE, FREDERICK (L-DO) COMP.

20-81
LASER SPECTROSCOPY.
ELECTRO-OPTICAL SYSTEMS DESIGN CONFERENCE/INTERNATIONAL LASER EXPOSITION, 1975. ANAHEIM, CA. PROC., P.191-5. ISCM, 1975. (535:E38O 1975)
ABSTRACT PUBLISHED IN:
ELECTRO-OPTICS/INTERNATIONAL LASER CONFERENCE AND EXPOSITION, 1975. ANAHEIM, CA. ABSTRACTS AND PROGRAM, TECHNICAL SESSION 5, PAPER NO.5. THE CONFERENCE, 1975. (535:E38OL)
KIM, KYU C. (L-8)

20-82
LASER SYSTEMS FOR HIGH PEAK POWER APPLICATIONS.
TIC, 1975. 9P. MN (LA-UR-75-1751)
FENSTERMACHER, CHARLES A. (L-DO)

20-83
LASERS FOR LASER FUSION.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.68. 1975.
JUDD, O'DEAN P. (L-2)

20-84
LASL 2.5 KILOJOULE CARBON DIOXIDE SHORT PULSE LASER SYSTEM.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-11, P.D44-5. 1975.
SINGER, SIDNEY (L-1)

20-85
LINEAR THEORY OF A COLD RELATIVISTIC BEAM PROPAGATING ALONG AN EXTERNAL MAGNETIC FIELD.
PHYS. FLUIDS, V.18, P.346-55. 1975. (LA-UR-74-972)*
GODFREY, BRENDAN B. (T-6)
SHANAHAN, WILLIAM R. (T-6)
THODE, LESTER E. (T-6)

20-86
LOS ALAMOS PRESENTATION ON LASER FUSION TO THE JOINT COMMITTEE ON ATOMIC ENERGY, WASHINGTON, DC, MARCH 13, 1975.
LASL, 1975. 6P. (LA-5923-MS)
MC CALL, GENE H. (L-4)

20-87
MAGNETIC FIELDS IN LASER PRODUCED PLASMAS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1378. 1975.
LINDMAN, ERICK L. (T-6)
FORSLUND, DAVID W. (T-6)
KINDEL, JOSEPH M. (T-6)
LEE, KENNETH (T-6)
SHANAHAN, WILLIAM R. (T-6)

20-88
MEASUREMENT OF BEAM QUALITY FROM SHORT PULSE CARBON DIOXIDE LASERS.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-11, P.D44. 1975.
LIBERMAN, IRVING (L-1)
BENNETT, MICHAEL J. (L-1)
HAYDEN, JAMES J. (L-1)
SINGER, SIDNEY (L-1)

20-89
MEASUREMENTS OF ALPHA PARTICLES AND PROTONS, PRODUCED FROM LASER FUSION.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1318. 1975.
TAN, TAI HO (L-4)
MC CALL, GENE H. (L-4)
WILLIAMS, ARTHUR H. (L-4)

20-90
METAL ATOM OXIDATION LASER.
FILED 1974, PATENTED OCT. 28, 1975. (U. S. PATENT 3,916,338)
JENSEN, REED J. (L-DO)
RICE, WALTER W. (L-8)
BEATTIE, WILLARD H. (L-8)

20-91
METAL ATOM OXIDATION LASERS: A NEW FAMILY OF CHEMICAL LASERS.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-11, P.689-90. 1975.
RICE, WALTER W. (L-3)

20-92
METHODS TO REDUCE THE EFFECTS OF SELF LASING AND TARGET REFLECTIONS IN CARBON DIOXIDE LASERS.
TIC, 1975, 6P. MN (LA-UR-74-1956)
REICHELT, WALTER H. (L-1)
LANDAHL, CHARLES E. (L-1)
STARK, EUGENE E. (L-1)
STRATTON, THOMAS F. (L-1)

20-93
MICRO-CHANNEL PLATE COLLIMATORS FOR LASER PLASMA DIAGNOSTICS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER., V.20, P.1294, 1975.
BENJAMIN, ROBERT F. (L-4)
LIEBER, ALBERT (L-4)
LYONS, PETER B. (J-14)
SUTPHIN, HOWARD D. (L-4)
WEBB, CLINTON B. (L-4)

20-94
MICROSPHERICAL LASER TARGETS BY CHEMICAL VAPOR DEPOSITION.
TIC, 1975, 13P. MN (LA-UR-75-636)
MC CREARY, WILLIAM J. (CMB-6)

20-95
MIXTURE STABILITY IN HIGH POWER PULSED HYDROGEN - FLUORINE CHEMICAL LASERS.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-11, P.698, 1975.
GETZINGER, RICHARD W. (L-3)
BLAIR, LARRY S. (L-3)
GREINER, NORMAN R. (L-3)

20-96
MODELOCKED, MULTILINE PULSED CARBON DIOXIDE OSCILLATOR.
LASL, 1975, 3P. (LA-5839-MS)
PILTCH, MARTIN S. (L-7)

20-97
MULTIBAND CARBON DIOXIDE OSCILLATOR.
OPT. COMMUN., V.13, P.104-5, 1975.
(LA-UR-74-1416)*
SCHAPPERT, GOTTFRIED T. (L-1)
FIGUEIRA, JOSEPH F. (L-1)

20-98
MULTILINE OPERATION OF A CARBON DIOXIDE OSCILLATOR/AMPLIFIER SYSTEM.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-11, P.D74, 1975.
FIGUEIRA, JOSEPH F. (L-1)
REICHELT, WALTER H. (L-1)
SCHAPPERT, GOTTFRIED T. (L-1)
FELDMAN, BARRY J. (T-6)

20-99
MULTILINE SHORT PULSE AMPLIFICATION AND COMPRESSION IN HIGH GAIN CARBON DIOXIDE LASER AMPLIFIER.
OPT. COMMUN., V.14, P.13-6, 1975.
(LA-UR-75-41)*
FELDMAN, BARRY J. (T-6)

20-100
NEUTRON EMISSION FROM LASER PRODUCED PLASMAS.
PHYS. REV. LETT., V.30, P.1116-8, 1973. (LA-UR-73-420)*
ALSO PUBLISHED IN:
LASER PLASMAS AND NUCLEAR ENERGY, BY H. HORA, P.417-9, PLENUM, 1975.
(537:H811L)
MC CALL, GENE H. (L-4)
YOUNG, FREDERICK (L-4)
EHLER, A. WAYNE (L-4)
KEPHART, JOHN F. (L-4)
GODWIN, ROBERT P. (L-4)

20-101
NEW COMPUTER TECHNIQUE FOR NONLINEAR OPTICAL PROBLEMS.
J. APPL. PHYS., V.46, P.354-61, 1975.
(LA-UR-74-1096)*
ELLIOTT, C. JAMES (T-6)
HENDERSON, DALE B. (T-6)

20-102
NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 1. X RAY METHOD.
NUCL. INSTRUM. METHODS, V.126, P.285-91, 1975. (LA-UR-75-398)*
FRIES, RALPH JAY (L-4)
FARNUM, EUGENE H. (L-4)

20-103
NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 2. PHOTONUCLEAR (DEUTERIUM (GAMMA,NEUTRON)) METHOD.
NUCL. INSTRUM. METHODS, V.126, P.293-7, 1975. (LA-UR-75-399)*
CALDWELL, JOHN T. (A-2)
ATWATER, HENRY F. (A-2)
FARNUM, EUGENE H. (L-4)
FRIES, RALPH JAY (L-4)
HYDER, A. K. (A-2)

20-104
NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 3. ELASTIC SCATTERING METHOD.
NUCL. INSTRUM. METHODS., V.126, P.299-302, 1975. (LA-UR-75-400)*
JARMIE, NELSON (P-9)
LOVOI, PAUL A. (P-9)
FARNUM, EUGENE H. (L-4)
FRIES, RALPH JAY (L-4)
YOUNG, FREDERICK (L-4)

20-105
NUMERICAL STUDIES OF THE INTERPLAY BETWEEN SELF PHASE MODULATION AND DISPERSION FOR INTENSE PLANE WAVE LASER PULSES.
J. APPL. PHYS. V.46, P.4921-34, 1975.
(LA-UR-75-527)*
FISHER, ROBERT A. (L-2)
BISCHEL, W. K.

20-106
OBSERVATIONS OF EXCITED STATE ABSORPTION IN ED-2 NEODYMIUM GLASS.
OPT. COMMUN., V.13, P.402-4, 19[illegible]
(LA-UR-75-69)*
FISHER, ROBERT A. (L-2)
JAMES, LARRY T.

20-107
OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 1. CANTED AND PARALLEL MIRRORS.
LASL, 1975. 19P. (LA-5986-MS, VOL. I)
DEVANEY, JOSEPH J. (L-5)
JACKSON, DOUGLAS E. (L-3)

20-108
OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 2. PARALLEL MIRRORS. MULTITRAVEL.
LASL, 1975. 9P. (LA-5986-MS, VOL.II)
DEVANEY, JOSEPH J. (L-5)
FINCH, FRANCIS T. (L-5)

20-109
OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 3. ASYMMETRIC CONFOCAL RESONATOR.
LASL, 1975. 15P. (LA-5986-MS, VOL.III)
DEVANEY, JOSEPH J. (L-5)

20-110
OPTICAL METHODS IN ENERGY CONVERSION, SPIE SEMINAR IN DEPTH, ROCHESTER, 23-25 JUNE 1975.
APPL. OPT., V.14, P.2784. 1975.
SCHOTT, GARRY L. (L-3)

20-111
OPTICAL QUALITY STUDY OF THE LASL CARBON DIOXIDE LASER AMPLIFIER SYSTEM.
TIC, 1975. 5P. MN (LA-UR-75-14)
GOLDSTEIN, JOHN C. (T-6)

20-112
OPTICS IN LASER PRODUCED PLASMAS.
AM. J. PHYS., V.43, P.808-17. 1975.
(LA-UR-74-1735)*
GIOVANIELLI, DAMON V. (L-4)
GODWIN, ROBERT P. (L-4)

20-113
OXYGEN -18 ENRICHMENT PROCESS IN URANIUM OXYFLUORIDE UTILIZING LASER LIGHT.
FILED 1974, PATENTED DEC. 2, 1975.
(U. S. PATENT 3,923,619)
DE POORTER, GERALD L. (L-8)
ROFER-DE POORTER, CHERYL K. (L-5)

20-114
PARAMETRIC STUDY OF A MULTIBAND CARBON DIOXIDE LASER.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-11, P.D74. 1975.
FIGUEIRA, JOSEPH F. (L-1)
SCHAPPERT, GOTTFRIED T. (L-1)
SINGER, SIDNEY (L-1)
THOMAS, SCOTT J. (L-1)

20-115
PEAK IRRADIANCE MEASUREMENTS ON A 10 J, 1 NS, CARBON DIOXIDE LASER.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1336. 1975.
SOLLID, JON E. (L-1)

20-116
PERFORMANCE OF STRUCTURED LASER FUSION PELLETS.
LASL, 1975. 17P. (LA-5698-MS)
MASON, RODNEY J. (T-6)

20-117
PLASMA HEATING BY RELATIVISTIC ELECTRON BEAMS. PART 2. RETURN CURRENT INTERACTION.
PHYS. FLUIDS, V.18, P.1564-73. 1975.
(LA-UR-75-424)*
THODE, LESTER E. (T-6)
SUDAN, RAVINDRA N.

20-118
PLASMA SIMULATION STUDIES OF STIMULATED SCATTERING PROCESSES IN LASER IRRADIATED PLASMAS.
PHYS. FLUIDS, V.18, P.1017-30. 1975.
(LA-UR-74-1177)*
FORSLUND, DAVID W. (T-6)
KINDEL, JOSEPH M. (T-6)
LINDMAN, ERICK L. (T-6)

20-119
PREHEAT EFFECTS ON MICROBALLOON LASER FUSION IMPLOSIONS.
LASL, 1975. 5P. (LA-6046-MS)
FRALEY, GARY S. (T-6)
MASON, RODNEY J. (T-6)

20-120
PREHEAT EFFECTS ON MICROBALLOON LASER FUSION IMPLOSIONS.
PHYS. REV. LETT., V.35, P.520-3. 1975.
(LA-UR-75-889)*
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1231. 1975.
FRALEY, GARY S. (T-6)
MASON, RODNEY J. (T-6)

20-121
PROXIMITY FOCUSED ULTRA-FAST STREAK TUBE.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1286. 1975.
LIEBER, ALBERT (L-4)
SUTPHIN, HOWARD D. (L-4)
BENJAMIN, ROBERT F. (L-4)
GITOMER, STEVEN J. (T-6)
HALL, W. STANLEY (L-DOT)

20-122
PULSE COMPRESSION FOR MORE EFFICIENT OPERATION OF SOLID STATE LASER AMPLIFIER CHAINS. 2.
IEEE J. QUANTUM ELECTRON., V.QE-11, P.46-52. 1975. (LA-UR-74-1117)*
FISHER, ROBERT A. (L-2)
BISCHEL, W. K.

20-123
PULSED HYDROGEN FLUORIDE LASER HOLOGRAPHIC INTERFEROMETRY.
APPL. OPT., V.14, P.628-33. 1975.
(LA-UR-74-986)*
KRISTAL, RICHARD (CTR-8)

20-124
PULSED HYDROGEN FLUORIDE LASER OSCILLATOR AMPLIFIER EXPERIMENTS.
OPTICAL METHODS IN ENERGY CONVERSION, SPIE SEMINAR PROCEEDINGS, V.61, P.81-8. SPIE, 1975. (LA-UR-75-913)*
SCHOTT, GARRY L. (L-3)

20-125
PULSED INFRARED DIFFERENCE FREQUENCY GENERATION IN CADMIUM - GERMANIUM - ARSENIC(2).
OPT. COMMUN., V.15, P.112-4. 1975. (LA-UR-75-962)*
PILTCH, MARTIN S. (L-7)
RINK, JOHN P. (L-7)
TALLMAN, CHARLES R. (L-6)

20-126
QUALITY SELECTION OF LASER - FUSION TARGET MICROBALLOONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1246. 1975.
STUPIN, DAVID M. (L-4)
FARNUM, EUGENE H. (L-4)
FRIES, RALPH JAY (L-4)
WINKLER, MAX A. (M-1)

20-127
RADIOACTIVE WASTE OUTPUT FROM LASER - FUSION GENERATING STATIONS DURING NORMAL OPERATIONS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.48. 1975.
FINCH, FRANCIS T. (L-5)
FRANK, THURMAN G. (L-5)
BOOTH, LAWRENCE A. (L-5)
KERN, EDWARD A. (L-5)

20-128
RAMSES, A TWO DIMENSIONAL, PIC TYPE, LASER PULSE PROPAGATION CODE.
COMPUT. PHYS. COMMUN., V.10, P.155-66. 1975.
DUDDER, H. D.
HENDERSON, DALE B. (***)

20-129
RECENT DEVELOPMENTS IN LASER - FUSION TARGET COATINGS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1230-1. 1975.
CATLETT, DUANE S. (CMB-6)
FRIES, RALPH JAY (L-4)
MAYER, ANTON (CMB-6)
MC CREARY, WILLIAM J. (CMB-6)
POWELL, BILLY W. (CMB-6)
SIMONSIC, GARY A. (CMB-6)
FOSSEY, D.

20-130
RECENT DEVELOPMENTS IN UNDERSTANDING THE PLASMA PHYSICS OF LASER TARGET INTERACTIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1230. 1975.
KINDEL, JOSEPH M. (T-6)

20-131
RELATIVISTIC LINEAR THEORY IN THE ABSENCE OF EXTERNAL FIELDS.
IEEE TRANS. PLASMA SCI., V.PS-3, P.68-75. 1975. (LA-UR-73-1845)*
GODFREY, BRENDAN B. (T-6)
TAGGART, KEITH A. (T-6)
NEWBERGER, BARRY S. (T-6)

20-132
RELATIVISTIC PLASMA DISPERSION FUNCTION.
IEEE TRANS. PLASMA. SCI., V.PS-3, P.60-7. 1975. (LA-UR-73-1496)*
GODFREY, BRENDAN B. (T-6)
NEWBERGER, BARRY S. (TD-8)
TAGGART, KEITH A. (T-6)

20-133
REVIEW OF SOFT X RAY LASERS USING CHARGE EXCHANGE.
TIC, 1975, 101P. MN (LA-UR-75-286)
CANTRELL, CYRUS D., III (L-DOT)
SCULLY, MARLAN O.
ET AL

20-134
ROTATIONAL TEMPERATURE IN A HIGH PRESSURE PULSED CARBON DIOXIDE LASER.
J. APPL. PHYS., V.46, P.2174-6. 1975. (LA-UR-74-1788)*
LELAND, WALLACE T. (L-1)
KIRCHER, MARY (L-1)
NUTTER, MURLIN J. (L-1)
SCHAPPERT, GOTTFRIED T. (L-1)

20-135
SCALING AND EFFICIENT OPERATION OF THE 1720 A XENON LASER.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.238. 1975.
HUNTER, ROBERT
SHANNON, JOHN
HUGHES, WILLIAM M. (L-2)

20-136
SELF FOCUSING PHENOMENA IN AIR - GLASS LASER STRUCTURES.
IEEE J. QUANTUM ELECTRON., V.QE-11, P.863-6. 1975. (LA-UR-74-1951)*
ELLIOTT, C. JAMES (T-6)
SUYDAM, BERGEN R. (T-7)

20-137
SPECTRAL ACCEPTANCE FOR SECOND HARMONIC GENERATION IN CD*A (CESIUM DIDEUTERIUM ARSENATE).
J. APPL. PHYS., V.46, P.3988-91. 1975. (LA-UR-75-417)*
TAYLOR, DAVID J. (L-2)

20-138
STATUS OF LASER FUSION RESEARCH.
IEEE TRANS. NUCL. SCI., V.NS-22, P.38-44. 1975.
BOYER, KEITH (L-DO)

20-139
STATUS REPORT. LASER FUSION TARGET FABRICATION, 30 APRIL 1974.
LASL, 1975, 23P. (LA-5703-SR REV.)
FRIES, RALPH JAY (L-1)
FARNUM, EUGENE H. (L-4)

20-140
STEADY ABLATION OF LASER TARGETS IN SPHERICAL GEOMETRY. 1. THE MODEL.
ABSTRACT PUBLISHED IN:
BULL. AM PHYS. SOC., SER.2, V.20, P.1246. 1975.
NEWBERGER, BARRY S. (T-6)
GITOMER, STEVEN J. (T-6)
MORSE, RICHARD L. (T-DO)

20-141
STEADY ABLATION OF LASER TARGETS IN SPHERICAL GEOMETRY. 2. PHYSICAL RESULTS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1246. 1975.
GITOMER, STEVEN J. (T-6)
NEWBERGER, BARRY S. (T-6)
MORSE, RICHARD L. (T-DO)

20-142
STIMULATED DIFFUSION SCATTERING IN IONOSPHERIC MODIFICATION.
PHYS. FLUIDS, V.18, P.207-13. 1975.
(LA-UR-74-563)*
BERGER, RICHARD L.
GOLDMAN, M. V.
DUBOIS, DONALD F. (T-6)

20-143
STREAK CAMERA STUDIES USING PICOSECOND PULSES OF PHOTOSYNTHESIS AND PLASTIC SCINTILLATORS.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-11, P.5D-6D. 1975.
SHAPIRO, STANLEY L. (L-2)
KOLLMAN, VICTOR H. (H-11)
HYER, RONALD C. (L-2)
CAMPILLO, ANTHONY J. (L-2)

20-144
STRUCTURE AND SCALING LAWS OF LASER DRIVEN ABLATIVE IMPLOSIONS.
LASL, 1975. 3P. (LA-6079-MS)
GITOMER, STEVEN J. (T-6)
MORSE, RICHARD L. (T-DO)
NEWBERGER, BARRY S. (T-6)

20-145
STRUCTURED FUSION TARGET DESIGNS.
NUCL. FUSION, V.15, P.333-5. 1975.
(LA-UR-74-1741)*
KIRKPATRICK, RONALD C. (TD-2)
CREMER, CHARLES C. (TD-2)
MADSEN, LARRY C. (TD-2)
ROGERS, HAROLD H. (TD-2)
COOPER, RALPH S. (L-DO)

20-146
SURFACE WAVE ABSORPTION.
PHYS. REV. LETT., V.34, P.134-8. 1975.
(LA-UR-74-888)*
KINDEL, JOSEPH M. (T-6)
LEE, KENNETH (T-6)
LINDMAN, ERICK L. (T-6)

20-147
SYMMETRY AND STABILITY STUDIES OF THERMALLY GENERATED MAGNETIC FIELDS IN LASER PRODUCED PLASMAS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1285. 1975.
MC CRORY, ROBERT L. (T-6)
CRANFILL, CHARLES W. (T-6)
HENDERSON, DALE B. (T-6)

20-148
SYSTEMS ANALYSIS OF LASER FUSION POWER PLANTS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.20, P.69. 1975.
KERN, EDWARD A. (L-5)
FRANK, THURMAN G. (L-5)
BOOTH, LAWRENCE A. (L-5)

20-149
TAMPED THERMONUCLEAR BURN OF DEUTERIUM - TRITIUM MICROSPHERES.
NUCL. FUSION, V.15, P.935-8. 1975.
(LA-UR-74-1525)*
MASON, RODNEY J. (T-6)
MORSE, RICHARD L. (T-6)

20-150
TEMPERATURE DEPENDENT ABSORPTION SPECTRUM OF THE NU(3) BAND OF SULFUR HEXAFLUORIDE AT 10.6 MICRONS.
J. QUANT. SPECTROSC. RADIAT TRANSFER, V.15, P.945-61. 1975. (LA-UR-74-1600)*
NOWAK, ANDREW V. (L-3)
LYMAN, JOHN L. (L-3)

20-151
TEMPERATURE DEPENDENT ORDINARY AND THERMAL DIFFUSION OF TRITIUM THROUGH METAL BARRIERS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.24-5. 1975.
PENDERGRASS, JOHN H. (L-5)
FINCH, FRANCIS T. (L-5)

20-152
THEORY AND SIMULATION OF RESONANT ABSORPTION IN A HOT PLASMA.
PHYS. REV., V.A11, P.679-83. 1975.
(LA-UR-74-894)*
FORSLUND, DAVID W. (T-6)
KINDEL, JOSEPH M. (T-6)
LEE, KENNETH (T-6)
LINDMAN, ERICK L. (T-6)
MORSE, RICHARD L. (T-6)

20-153
THEORY OF STIMULATED SCATTERING PROCESSES IN LASER IRRADIATED PLASMAS.
PHYS. FLUIDS, V.18, P.1002-16. 1975.
(LA-UR-74-1176)*
FORSLUND, DAVID W. (T-6)
KINDEL, JOSEPH M. (T-6)
LINDMAN, ERICK L. (T-6)

20-154
THIN FILM DETECTOR SYSTEM FOR LASER - FUSION STUDIES.
NUCL. INSTRUM. METHODS, V.131, P.425-9. 1975. (LA-UR-75-1971)*
TAN, TAI HO (L-4)
WILLIAMS, ARTHUR H. (L-4)
MC CALL, GENE H. (L-4)

20-155
TIME DEPENDENCE OF ROTATIONAL TEMPERATURE IN A HIGH PRESSURE PULSED CARBON DIOXIDE LASER.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.232. 1975.
LELAND, WALLACE T. (L-1)
KIRCHER, MARY (L-1)
NUTTER, MURLIN J. (L-1)
SCHAPPERT, GOTTFRIED T. (L-1)

20-156
TIME RESOLVED OUTPUT SPECTRUM FROM A HYDROGEN FLUORIDE LASER USING MIXTURES OF SULFUR HEXAFLUORIDE AND HYDROGEN IODIDE.
IEEE J. QUANTUM ELECTRON., V.QE-11, P.844-5. 1975. (LA-UR-75-672)*
GREINER, NORMAN R. (L-3)

20-157
TURBULENT PUSHER BEHAVIOR.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1265. 1975.
MORSE, RICHARD L. (T-DO)
MC CRORY, ROBERT L. (T-6)

20-158
TWO DIMENSIONAL CALCULATIONS OF ASYMMETRIC LASER FUSION TARGETS USING IRIS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1378. 1975.
TAGGART, KEITH A. (T-6)
MORSE, RICHARD L. (T-DO)
MC CRORY, ROBERT L. (T-6)
REMUND, ROBERT N. (T-6)

20-159
TWO DIMENSIONAL LAGRANGIAN LASER PELLET SIMULATION CODE.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1378-9. 1975.
HENDERSON, DALE B. (T-6)
MASON, RODNEY J. (T-6)

20-160
ULTRAFAST STREAK CAMERA.
SCIENCE, V.189, P.410. 1975.
CAMPILLO, ANTHONY J. (L-2)
KOLLMAN, VICTOR H. (H-11)

20-161
ULTRASHORT PHENOMENA.
PHYS. TODAY, V.28, NO.7, P.30-7. 1975. (LA-UR-75-428)*
ALFANO, R. R.
SHAPIRO, STANLEY L. (L-2)

20-162
UV PHOTOIONIZATION PROCESSES IN SEEDED HIGH PRESSURE LASER GASES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.149. 1973.
WADA, J.
LIND, R. C.
JUDD, O'DEAN P. (T-6)

20-163
VERY HIGH INTENSITY REACTION CHAMBER DESIGN.
LASL, 1975. 14P. (LA-6124-MS)
DEVANEY, JOSEPH J. (L-5)

20-164
X RAY CONTINUUM AND LINE RADIATION FROM PLASMAS PRODUCED BY 10.6 MICROMETER LASER FOCUSED ON FLAT TARGETS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1303. 1975.
MITCHELL, KENNETH B. (L-1)
LYONS, PETER B. (J-14)

20-165
X RAY PINHOLE CAMERAS FOR LASER PLASMA EXPERIMENTS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1294. 1975.
VAN HULSTEYN, DAVID B. (L-4)
BENJAMIN, ROBERT F. (L-4)
LIEBER, ALBERT (L-4)
MC CALL, GENE H. (L-4)

21. MATHEMATICS AND COMPUTERS

21-1
ALGORITHMS TO REVEAL GRAPHIC TERMINAL CHARACTERISTICS.
TIC, 1975, 23P, MN (LA-UR-74-1915)
GEORGE, JAMES E. (C-10)

21-2
ALGORITHMS TO REVEAL THE REPRESENTATION OF CHARACTERS, INTEGERS AND FLOATING POINT NUMBERS.
ACM TRANS. MATH. SOFTWARE, V.1, P.210-6, 1975, (LA-UR-74-1768)*
GEORGE, JAMES E. (C-10)

21-3
ALTERNATING DIRECTION GALERKIN METHODS FOR PARABOLIC AND HYPERBOLIC PROBLEMS ON RECTANGULAR POLYGONS.
SIAM J. NUMER. ANAL., V.12, P.144-63, 1975, (LA-UR-74-1744)*
DENDY, JOEL E., JR. (T-7)
FAIRWEATHER, G.

21-4
ANALOG COMPUTER FOR CALCULATING THE SHUNT IMPEDANCE OF A RESONANT CAVITY.
NUCL. INSTRUM. METHODS, V.125, P.173-6, 1975, (LA-UR-75-35)*
SHIPLEY, JAMES P., JR. (E-DOR)
DOOLEY, G. RICHARD, JR. (E-2)

21-5
ANALYSIS OF CAVITY STABILITY BY THE FINITE ELEMENT METHOD.
CUBE, 1974, SYMPOSIUM, LIVERMORE, CA. PROC., P.64-71, TIC, 1975, (CONF-741001)
ANDERSON, CHARLES A. (WX-3)

21-6
ANALYSIS OF SOME GALERKIN SCHEMES FOR THE SOLUTION OF NONLINEAR TIME DEPENDENT PROBLEMS.
SIAM J. NUMERICAL ANALYSIS, V.12, P.541-65, 1975, (LA-UR-73-1836)*
DENDY, JOEL E., JR. (C-6)

21-7
APPLIED MATHEMATICS RESEARCH AND VISITOR PROGRAM, JULY 1, 1974 - JUNE 30, 1975.
LASL, 1975, 16P, (LA-6101-PR)
METROPOLIS, NICHOLAS C. (T-7)
WENDROFF, BURTON (T-7)

21-8
APPROXIMATE REPRESENTATIONS OF A LOCAL CURRENT ALGEBRA.
J. MATH. PHYS., V.16, P.2353-60, 1975, (LA-UR-75-859)*
MENIKOFF, RALPH (T-8)
SHARP, DAVID H. (T-8)

21-9
ASM80: A CDC 7600 MACRO CROSS ASSEMBLER FOR III-15 AND D.E.C. PDP-9 AND PDP-15 COMPUTERS.
LASL, 1975, 12P, (LA-5840)
NEWELL, JAMES C. (C-6)

21-10
BAYESIAN RELIABILITY ESTIMATION: STATE OF THE ART FOR THE TIME DEPENDENT CASE.
LASL, 1975, 27P, (LA-6003)
WALLER, RAY A. (C-5)
MARTZ, HARRY F., JR. (C-5)

21-11
BELL TRANSFORM.
TIC, 1974, 10P, MN (LA-UR-74-831)
ALSO PUBLISHED IN:
MONTE CARLO STUDY GROUP, 1974, NEACRP MEETING, ARGONNE, IL. PROC., P.133-44, ANL, 1975, (ANL-75-2)
EVERETT, CORNELIUS J. (TD-6)
CASHWELL, EDMOND D. (TD-6)

21-12
BOND GRAPH JUNCTION STRUCTURES.
J. DYN. SYST. MEAS. CONTROL, V.97, P.189-95, 1975, (LA-UR-74-1106)*
PERELSON, ALAN S. (T-10)

21-13
BOND GRAPH SIGN CONVENTIONS.
J. DYN. SYST. MEAS. CONTROL, V.97, P.184-8, 1975, (LA-UR-74-1428)*
PERELSON, ALAN S. (T-10)

21-14
BOOK REVIEW: APPLICABLE FINITE MATHEMATICS, BY D. S. MOORE AND J. W. YACKEL.
J. AM. STAT. ASSOC., V.70, P.733-4, 1975.
MC KAY, MICHAEL D. (C-5)

21-15
CANONICAL RESOLUTION OF THE MULTIPLICITY PROBLEM FOR U(3): AN EXPLICIT AND COMPLETE CONSTRUCTIVE SOLUTION.
TIC, 1975, 10P, MN (LA-UR-75-1161)
BIEDENHARN, LAWRENCE C. (T-DO)
LOHE, MAX A.
LOUCK, JAMES D. (T-7)

21-16
CENTRAL COMPUTING FACILITY PLANNING STUDY: TECHNICAL OVERVIEW.
LASL, 1975. 15P. (LA-5752)
BAILEY, DAVID J. (C-9)

21-17
COMPARING CERTAIN CLASSES OF DIFFERENCE AND FINITE ELEMENT SCHEMES FOR A HYPERBOLIC PROBLEM.
TIC, 1975. 4P. MN (LA-UR-75-910)
SWARTZ, BLAIR K. (T-7)

21-18
COMPUTER AIDED DESIGN OF ELECTRONIC CIRCUITRY.
TIC, 1975. 6P. MN (LA-UR-74-1608)
ALSO PUBLISHED IN:
CUBE. 1974. SYMPOSIUM, LIVERMORE, CA.
PROC., P.268-71. TIC, 1975.
(CONF-741001)
FREYMAN, ROBERT W. (E-DOR)
MARTINEZ, PAUL H. (E-2)

21-19
COMPUTER GRAPHICS; 118 COMPUTER GENERATED DESIGNS.
DOVER, 1975. 69P. (745:P971C)
PRUEITT, MELVIN L. (TD-4)

21-20
COMPUTER HOLOGRAMS REVISITED.
ABSTRACT PUBLISHED IN:
CUBE. 1974. SYMPOSIUM, LIVERMORE, CA.
PROC., P.565. TIC, 1975. (CONF-741001)
NEWELL, JAMES C. (C-4)
DICKMAN, DONALD O. (C-3)
WINKLER, MAX A. (M-1)

21-21
COMPUTER SCIENCE AND SERVICES DIVISION OF THE LOS ALAMOS SCIENTIFIC LABORATORY.
TIC, 1975. 6P. MN (LA-UR-74-1566)
ALSO PUBLISHED IN:
CUBE. 1974. SYMPOSIUM, LIVERMORE, CA.
PROC., P.16-21. TIC, 1975.
(CONF-741001)
DORR, FRED W. (C-DO)

21-22
COMPUTERIZED IMAGE ANALYSIS AT THE LOS ALAMOS SCIENTIFIC LABORATORY.
OPT. ENG., V.14, P.73-75. 1975.
(LA-UR-74-1688)*
JANNEY, DONALD H. (C-8)
HUNT, BOB R. (C-8)

21-23
COMPUTERIZED INVENTORY/DESIGN SYSTEM FOR GRAPHITE MOLDS.
TIC, 1974. 13P. MN (LA-UR-74-1523)
ALSO PUBLISHED IN:
CUBE. 1974. SYMPOSIUM, LIVERMORE, CA.
PROC., P.463-8. TIC, 1975.
(CONF-741001)
ERICKSON, WILLIAM C. (CMB-6)
NEWFIELD, STEPHEN E. (CMB-6)

21-24
COMPUTING AT LASL: PERSPECTIVES, POLICIES, AND PLANS.
LASL, 1975. 16P. (LA-5861-MS)
MC GIRT, A. FRANK (C-DO)
WORLTON, WILLIAM J. (C-DO)

21-25
COMPUTING FACILITIES AT LOS ALAMOS SCIENTIFIC LABORATORY.
PLANNING A NATIONAL CENTER FOR LARGE SCALE COMPUTATION IN CHEMISTRY RESEARCH. 1974. WORKSHOP, ARGONNE, IL. REPORT, P.59-61. ANL, 1975. (ANL-8085)
WORLTON, WILLIAM J. (C-DO)

21-26
CONTINUED FRACTION EXPANSION OF ALGEBRAIC NUMBERS.
ADV. MATH., V.16, P.362-7. 1975.
(LA-UR-74-1363)*
RICHTMYER, ROBERT D. (T-7)

21-27
CONVERGENCE ESTIMATES FOR GALERKIN METHODS FOR VARIABLE COEFFICIENT INITIAL VALUE PROBLEMS.
SIAM J. NUMERICAL ANALYSIS, V.11, P.1059-68. 1974. (LA-UR-75-1863)*
WENDROFF, BURTON (T-7)
THOMEE, VIDAR

21-28
DETERMINATION OF ELLIPSES SATISFYING VARIOUS POINT SLOPE CONDITIONS.
LASL, 1975. 10P. (LA-5816-MS)
EVERETT, CORNELIUS J. (TD-6)
TAYLOR, WILLIAM M. (TD-6)

21-29
DIGITAL IMAGE PROCESSING.
PROC. IEEE, V.63, P.693-708. 1975.
(LA-UR-74-1252)*
HUNT, BOB R. (C-8)

21-30
DIGITAL INTERFACE FOR FIELD REGULATED MAGNETS.
CHEM. INSTRUM., V.6, P.173-8. 1975.
(LA-UR-74-624)*
FUKUSHIMA, EIICHI (CNC-4)
ARMSTRONG, DALE E. (CNC-4)

21-31
ENGINEERING APPLICATIONS OF ADI (ALTERNATING - DIRECT - IMPLICIT) METHODS TO PIECEWISE LINEAR MULTIDIMENSIONAL HEAT TRANSFER.
J. COMPUT. PHYS., V.17, P.181-91. 1975.
SMITH, JIMMIE H. (***)

21-32
EXPLOITING VECTOR MODE IN A SISD COMPUTER.
TIC, 1975. 12P. MN (LA-UR-75 429)
BUZBEE, BILLY L. (C-3)
RUDSINSKI, LAWRENCE E. (C-3)

21-33
EXTRAPOLATED COLLOCATION FOR TWO POINT BOUNDARY VALUE PROBLEMS USING CUBIC SPLINES.
J. INST. MATH. ITS APPL., V.16, P.161-74. 1975. (LA-DC-72-1520)*
DANIEL, JAMES W. (C-6)
SWARTZ, BLAIR K. (C-6)

21-34
FTRCOL: A COMPUTER CODE TO GROUP COLLAPSE FTR FILES AND OUTPUT STANDARD CCCC INTERFACE FILES.
LASL, 1975. 54P. (LA-5933-MS)
SORAN, PATRICK D. (T-1)

21-35
FUTURE POTENTIALITIES OF IMAGE ANALYSIS. ACQUISITION AND ANALYSIS OF PICTORIAL DATA; THE MODERN SCIENCE OF IMAGERY. 1974. SEMINAR, SAN DIEGO. PROC., V.48, P.45. SPIE, 1975. (535:A186A)
(LA-UR-74-1215)*
JANNEY, DONALD H. (C-8)

21-36
GAUSSIAN ELIMINATION FOR DENSE SYSTEMS ON STAR AND A NEW PARALLEL ALGORITHM FOR DIAGONALLY DOMINANT TRIDIAGONAL SYSTEMS.
LASL, 1975. 13P. (LA-5803)
JORDAN, THOMAS L. (C-3)

21-37
GENERAL PURPOSE COMPUTER PROGRAM FOR MANIPULATING AND ANALYZING TABULAR DATA.
TIC, 1974. 9P. MN (LA-UR-74-1582)
ALSO PUBLISHED IN:
CUBE. 1974. SYMPOSIUM, LIVERMORE, CA. PROC., P.358-65. TIC, 1975.
(CONF-741001)
FULTYN, ROBERT V. (H-1)

21-38
GREATEST INTEGER THEOREM FOR FIBONACCI SPACES.
FIBONACCI Q., V.13, P.260-2. 1975.
(LA-UR-73-569)*
ABSTRACT PUBLISHED IN:
NOTICES AM. MATH. SOC., V.20, P.A258-9. 1973.
EVERETT, CORNELIUS J. (TD-6)

21-39
HYBRID COMPUTER SIMULATION OF TRANSMISSION LINE CIRCUITS.
CUBE. 1974. SYMPOSIUM, LIVERMORE, CA. PROC., P.306-13. TIC, 1975.
(CONF-741001)
MURRAY, HUGH S. (E-4)
HAFER, JOHN F. (E-4)

21-40
HYBRID DIGITAL/OPTICAL SYSTEMS FOR NONLINEAR IMAGE RESTORATION.
TIC, 1975. 4P. MN (LA-UR-75-139)
HUNT, BOB R. (C-8)

21-41
INTERACTION NOTES. (NOS.197, 198, 199, 200).
LASL, 1975. PAGED IN SECTIONS.
(LA-5941-MS)
PARTRIDGE, RALPH E., JR. (J-8) COMP.

21-42
INTERACTIVE GRAPHICS SYSTEM FOR MECHANICAL DRAFTING AND DESIGN.
TIC, 1974. 7P. MN (LA-UR-74-1578)
ALSO PUBLISHED IN:
CUBE. 1974. SYMPOSIUM, LIVERMORE, CA. PROC., P.436-41. TIC, 1975.
(CONF-741001)
BEATTY, JERRY N. (J-7)

21-43
INTRODUCTION TO INVARIANT IMBEDDING.
WILEY, 1975. 250P. (515: B445I)
BELLMAN, RICHARD E.
WING, G. MILTON (***)

21-44
INVESTIGATION OF PATTERN RECOGNITION TECHNIQUES FOR THE IDENTIFICATION OF SPLITTING SURFACES IN MONTE CARLO PARTICLE TRANSPORT CALCULATIONS
THESIS, UNIV. OF TEXAS, 1975.
LASL, 1975. 306P. (LA-6015-T)
MAC DONALD, JAMES L. (TD-6)

21-45
LECTURES ON DIVERGENT SERIES.
LASL, 1975. 122P. (LA-6140-TR)
BOREL, EMILE
CRITCHFIELD, CHARLES L. (T-9) TRANS.
VAKAR, ANNA (ISD-4) TRANS.

21-46
MODELING MAXIMUM LIKELIHOOD ESTIMATION OF AVAILABILITY.
TIC, 1975. 15P. MN (LA-UR-75-215)
ALSO PUBLISHED IN:
RELIABILITY OF NUCLEAR POWER PLANTS. 1975. SYMPOSIUM, INNSBRUCK. PROC., P.189-97. IAEA, 1975. (IAEA-SM-195/33)
(626:R382N)
WALLER, RAY A. (C-5)
ROCK, GLENN W.
TIETJEN, GARY L. (C-5)

21-47
MONTE CARLO CODE DEVELOPMENT IN LOS ALAMOS.
LASL, 1975. 7P. (LA-5903-MS)
CARTER, LELAND L. (TD-6)
CASHWELL, EDMOND D. (TD-6)
EVERETT, CORNELIUS J. (TD-6)
FOREST, CHARLES A. (TD-6)
SCHRANDT, ROBERT G. (TD-6)
TAYLOR, WILLIAM M. (TD-6)
THOMPSON, WILLIAM L. (TD-6)
TURNER, G. DAVID (TD-6)

21-48
MONTE CARLO CODE DEVELOPMENT IN LOS ALAMOS.
TIC, 1974. 11P. MN (LA-UR-74-897)
ALSO PUBLISHED IN:
MONTE CARLO STUDY GROUP. 1974. NEACRP MEETING, ARGONNE, IL. PROC., P.53-63. ANL, 1975. (ANL-75-2)
CARTER, LELAND L. (TD-6)
CASHWELL, EDMOND D. (TD-6)
EVERETT, CORNELIUS J. (TD-6)
FOREST, CHARLES A. (TD-6)
SCHRANDT, ROBERT G. (TD-6)
TAYLOR, WILLIAM M. (TD-6)
THOMPSON, WILLIAM L. (TD-6)
TURNER, G. DAVID (TD-6)

21-49
MONTE CARLO METHOD FOR PROBLEMS OF HIERARCHICAL INFERENCE.
LASL, 1975. 7P. (LA-5879-MS)
EVERETT, CORNELIUS J. (TD-6)

21-50
MONTE CARLO SPLITTING SURFACE IDENTIFICATION BY PATTERN RECOGNITION.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.281-2. 1975.
MAC DONALD, JAMES L. (TD-6)
KOEN, BILLY V.
CASHWELL, EDMOND D. (TD-6)

21-51
NET-2 NETWORK ANALYSIS PROGRAM.
CUBE, 1974. SYMPOSIUM, LIVERMORE, CA. PROC., P.255-61. TIC, 1975. (CONF-741001)
MALMBERG, ALLAN F. (T-7)

21-52
NON-INTERCEPTING BEAM POSITION SENSOR FOR LAMPF.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.198-9. 1975.
GUTSCHER, WILLIAM D. (E-4)
JACKSON, JASPER A., JR. (P-11)

21-53
NOTION OF COMPLEXITY.
LASL, 1971. 8P. (LA-4822)
BEYER, WILLIAM A. (T-DOT)
STEIN, MYRON L. (C-7)
ULAM, STANISLAW M.

21-54
NUMERICAL COMPARISON OF INTEGRAL EQUATIONS OF THE FIRST AND SECOND KIND FOR CONFORMAL MAPPING.
MATH. COMPUT., V.29, P.512-21. 1975. (LA-UR-73-1015)*
HAYES, JOHN K. (ADWP-2)
KAHANER, DAVID K. (C-6)
KELLNER, RICHARD G. (C-6)

21-55
NUMERICAL EVALUATION OF THE AZIMUTHALLY DEPENDENT ALBEDO PROBLEM IN SLAB GEOMETRY.
J. COMPUT. PHYS., V.15, P.200-11. 1974.
HILL, THOMAS R. (T-1)
SHULTIS, J. KENNETH
MINGLE, J. O.

21-56
NUMERICAL METHODS FOR CONSERVATION LAWS.
ABSTRACT PUBLISHED IN:
NOTICES AM MATH. SOC., V.22, P.A153. 1975.
WENDROFF, BURTON (T-7)

21-57
NUMERICAL METHODS. LOS ALAMOS TECHNICAL SERIES. VOLUME 2, PART 1, CHAPTERS 1-5.
LASL, 1949. DECLASSIFIED 1971. 192P. (LA-1057)
NELSON, EDWARD C.
ET AL

21-58
NUMERICAL METHODS. LOS ALAMOS TECHNICAL SERIES, VOLUME 2, PART 2, CHAPTERS 6-8.
LASL, 1949. DECLASSIFIED 1971. 159P. (LA-1058)
NELSON, EDWARD C.
ET AL

21-59
ON FINITE ELEMENTS FOR EQUATIONS OF EVOLUTION.
TIC, 1975. 29P. MN (LA-DC-72-1220)
WENDROFF, BURTON (C-6)

21-60
ON THE MULTIPLICITY OF SOLUTIONS OF A DIFFERENTIAL EQUATION ARISING IN CHEMICAL REACTOR THEORY.
STUD. APPL. MATH., V.54, P.293-314. 1975. (LA-UR-73-1631)*
PARTER, SEYMOUR V. (C-6)
STEIN, MYRON L. (C-4)
STEIN, PAUL R. (C-6)

21-61
ON THE ROOTS OF X(M)+-1 IN THE P-ADIC FIELD Q(P).
ABSTRACT PUBLISHED IN:
NOT. AM. MATH. SOC., V.22, P.A619. 1975.
EVERETT, CORNELIUS J. (TD-6)
METROPOLIS, NICHOLAS C. (T-7)

21-62
OPTION: A COMPUTER CODE TO SOLVE STEADY STATE FLUID THERMAL ENGINEERING PROBLEMS.
ABSTRACT PUBLISHED IN:
CUBE, 1974. SYMPOSIUM, LIVERMORE, CA. PROC., P.564. TIC, 1975. (CONF-741001)
MURRAY, SUZANNE T. (WX-3)
MC CLARY, JOHN A.
GIDO, RICHARD G. (Q-23)

21-63
PARTICLE TRANSPORT SIMULATION WITH THE MONTE CARLO METHOD.
TIC, 1975. 115P. (TID-26607)
CARTER, LELAND L. (TD-6)
CASHWELL, EDMOND D. (TD-6)

21-64
PERSPECTIVE DISPLAYS FOR THREE DIMENSIONAL FINITE DIFFERENCE CALCULATIONS.
COMPUT. FLUIDS, V.3, P.293-303. 1975. (LA-UR-74-877)*
HIRT, CYRIL W., JR. (T-3)
COOK, J. L.

21-65
POLARIZED H MINUS SOURCE FOR LAMPF.
TIC, 1975. 7P. MN (LA-UR-74-1355)
MC KIBBEN, JOSEPH L. (P-9)
STEVENS, RALPH R., JR. (MP-9)
ALLISON, PAUL W. (MP-9)
HARDEKOPF, ROBERT A. (P-9)

21-66
PROBLEM OF THE N LIARS.
ABSTRACT PUBLISHED IN:
NOTICES AM. MATH. SOC., V.20, P.A341. 1973.
EVERETT, CORNELIUS J. (TD-6)

21-67
PROSPECTIVE CAPABILITIES IN SOFTWARE.
TIC, 1975. 13P. MN (LA-UR-75-923)
DORR, FRED W. (C-DO)

21-68
REAL NUMBERS AS A WREATH PRODUCT.
ADV. MATH., V.16, P.278-304. 1975.
FALTIN, FREDERICK W.
METROPOLIS, NICHOLAS C. (T-7)
ROSS, BEVERLY J.
ROTA, GIAN-CARLO (C-DO)

21-69
REMOTE TRANSIENT DATA ACQUISITION SYSTEM.
TIC, 1975. 6P. MN (LA-UR-74-1565)
ALSO PUBLISHED IN:
CUBE. 1974. SYMPOSIUM, LIVERMORE, CA.
PROC., P.202-7. TIC. 1975.
(CONF-741001)
STEPHENSON, DWIGHT L. (E-5)
MILICH, CHARLES P. (E-5)

21-70
REPRESENTATIONS OF A LOCAL CURRENT
ALGEBRA: THEIR DYNAMICAL DETERMINATION.
J. MATH. PHYS., V.16, P.2341-52. 1975.
(LA-UR-75-396)*
MENIKOFF, RALPH (T-8)
SHARP, DAVID H. (T-8)

21-71
SCAN AND DISPLAY CONSIDERATIONS IN
PROCESSING IMAGES BY DIGITAL COMPUTER.
IEEE TRANS. COMPUT., V.C-24, P.848-53.
1975. (LA-UR-74-780)*
HUNT, BOB R. (C-8)
BREEDLOVE, JAMES R. (C-8)

21-72
SELF INTERACTING, BOSON, QUANTUM, FIELD
THEORY AND THE THERMODYNAMIC LIMIT IN D
DIMENSIONS.
J. MATH. PHYS., V.16, P.1324-46. 1975.
BAKER, GEORGE A., JR. (***)

21-73
SIGNIFICANCE ARITHMETIC: APPLICATION TO A
PARTIAL DIFFERENTIAL EQUATION.
TIC, 1975. 4P. MN (LA-UR-75-1763)
BIVINS, ROBERT L. (C-3)
METROPOLIS, NICHOLAS C. (T-7)

21-74
SINGULARITY FITTING IN HYDRODYNAMICAL
CALCULATIONS. 2.
LASL, 1975. 16P. (LA-6108-MS)
RICHTMYER, ROBERT D. (CTR-6)
LAZARUS, ROGER B. (C-3)

21-75
SPLINE-GALERKIN METHODS FOR INITIAL VALUE
PROBLEMS WITH VARIABLE COEFFICIENTS.
NUMERICAL SOLUTION OF DIFFERENTIAL
EQUATIONS. 1973. 5TH CONFERENCE,
DUNDEE. PAPERS, LECTURE NOTES IN
MATHEMATICS, 363, P.189-95. SPRINGER-
VERLAG, 1974. (517:N971S 1973)
WENDROFF, BURTON (T-7)

21-76
STRUCTURAL PROPERTIES OF THE CANONICAL
U(3) RACAH FUNCTIONS AND THE U(3):U(2)
PROJECTIVE FUNCTIONS.
J. MATH. PHYS., V.16, P.2408-26. 1975.
(LA-UR-75-942)*
LOUCK, JAMES D. (T-7)
BIEDENHARN, LAWRENCE C. (T-DO)
LOHE, MAX A.

21-77
STUDIES OF NONLINEAR PROBLEMS. 1.
LASL, 1955. 20P. (LA-1940)
ALSO PUBLISHED IN:
NONLINEAR WAVE MOTION. 1972. SUMMER
SEMINAR, POTSDAM, NY. PROC., LECTURES
IN APPLIED MATHEMATICS, V.15,
P.143-56. AMS, 1974. (530:N813W)
FERMI, ENRICO
PASTA, JOHN R. (T-3)
ULAM, STANISLAW M. (T-8)

21-78
SURVEY OF THE STATE OF THE ART OF FAST
SINGLE TRANSIENT ANALOG TO DIGITAL
CONVERTER TECHNIQUES.
ABSTRACT PUBLISHED IN:
EMP. 1973. JOINT TECHNICAL MEETING,
ALBUQUERQUE, NM. PROC., V.2,
INSTRUMENTATION, P.25. DNA, 1975.
(DNA 3609P-2)
PARTRIDGE, RALPH E., JR. (J-8)

21-79
SYNTHESIS OF HOLOGRAMS FOR COMPUTER
GENERATED OUTPUT.
COMPUTER, V.8, P.54-6. 1975.
DICKMAN, DONALD O. (C-3)
NEWELL, JAMES C. (C-6)
WINKLER, MAX A. (M-1)

21-80
SYNTHESIS OF HOLOGRAMS FROM COMPUTER
GENERATED OUTPUT.
LASL, 1975. 4P. (LA-5940-MS)
NEWELL, JAMES C. (C-6)
DICKMAN, DONALD O. (C-3)
WINKLER, MAX A. (M-1)

21-81
THREE DIMENSIONAL MESH GENERATOR FOR
FINITE ELEMENT COMPUTER CODES.
TIC, 1975. 8P. MN (LA-UR-74-1693)
ALSO PUBLISHED IN:
CUBE. 1974. SYMPOSIUM, LIVERMORE, CA.
PROC., P.507-13. TIC, 1975.
(CONF-741001)
COOK, WILLIAM A. (WX-3)

22. MEDIUM ENERGY PHYSICS

22-1
(PI-PLUS,PP) REACTION ON SEVERAL LIGHT NUCLEI.
PHYS. REV., V.C11, P.332-48. 1975.
(LA-UR-74-990)*
ARTHUR, EDWARD D. (P-3)
LAM, W.
ET AL

22-2
ACTIVE CORRECTIVE ELEMENT FOR HIGH RESOLUTION MAGNETIC OPTICS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1169. 1975.
BLANPIED, G. (MP-10)
LILJESTRAND, R. (MP-10)
HOFFMAN, G. W. (MP-10)
SPENCER, JAMES E. (MP-10)

22-3
BEAM CALCULATIONS FOR LAMPF MUON CHANNEL.
IEEE TRANS. NUCL. SCI., V.NS-22, P.1593-7. 1975.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.200. 1975.
LYSENKO, W.
THOMPSON, PATRICK A. (MP-7)
VOGEL, HERBERT F. (E-2)
OHNUMA, S.

22-4
BEAM EMITTANCE GROWTH IN A PROTON STORAGE RING EMPLOYING CHARGE EXCHANGE INJECTION.
TIC, 1975. 13P. MN (LA-UR-75-402)
ALSO PUBLISHED IN:
IEEE TRANS. NUCL. SCI., V.NS-22, P.1916-8. 1975.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.212. 1975.
COOPER, RICHARD K.
LAWRENCE, GEORGE P. (P-11)

22-5
BEAM INTENSITY MONITORING FOR THE EXTERNAL PROTON BEAM AT LAMPF.
LASL, 1975. 6P. (LA-6008-MS
BARRETT, RICHARD J. (T-2)
ANDERSON, B. D.
WILLARD, H. B.
ANDERSON, ALAN N. (MP-7)
JARMIE, NELSON (P-9)

22-6
CALCULATED NEUTRON SPECTRUM FROM 800 MEV PROTONS INCIDENT ON A COPPER BEAM STOP.
LASL, 1975. 14P. (LA-6043-MS)
PERRY, DENNIS G. (CNC-11)

22-7
CALIBRATION OF THE BEAM SPILL CONTROL SYSTEM AT LAMPF.
IEEE TRANS. NUCL. SCI., V.NS-22, P.1517-21. 1975.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.215. 1975.
PARKER, JOSEPH R. (E-3)
LISKA, DONALD J. (MP-9)

22-8
CLINTON P. ANDERSON MESON PHYSICS FACILITY RADIOISOTOPE PROGRAM.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.224. LASL, 1975. (LA-6030-C)
O'BRIEN, HAROLD A., JR. (CNC-11)
OGARD, ALLEN E. (CNC-11)
GRANT, PATRICK M. (CNC-11)
BARNES, JOHN W. (CNC-11)
ERDAL, BRUCE R. (CNC-11)

22-9
COINCIDENCE EXPERIMENTS AT INTERMEDIATE ENERGIES.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.370. LASL, 1975. (LA-6030-C)
SPENCER, JAMES E. (MP-10)
THIESSEN, HENRY A. (MP-10)

22-10
DESIGN OF THE LAMPF LOW ENERGY PION CHANNEL.
NUCL. INSTRUM. METHODS, V.131, P.29-38. 1975. (LA-UR-75-1760)*
BURMAN, ROBERT L. (MP-4)
FULTON, R.
JAKOBSON, M.

22-11
DISTORTED PERIPHERAL CROSS SECTIONS FOR DEUTERON (PI+,2PROTON).
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.84. 1975.
WIENKE, BRUCE R. (T-1)

22-12
EFFICIENCY AND POSITION RESOLUTION OF TWO DIMENSIONAL POSITION SENSITIVE MULTIWIRE PROPORTION COUNTERS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20 P.1169. 1975.
BOLGER, JOSEPH E. (MP-10)
BRAITHWAITE, WILFRED J. (MP-10)
HOLTKAMP, DAVID B. (MP-10)
KALLNE, JAN (MP-10)
THIESSEN, HENRY A. (MP-10)
MORRIS, CHRISTOPHER L. (MP-10)

22-13
ESTIMATE OF THE (Z-ALPHA)2 - ALPHA -2 VACUUM POLARIZATION TERM IN MUONIC LEAD.
PHYS. REV. LETT., V.34, P.339-41. 1975. (LA-UR-74-1777)*
RINKER, GEORGE A., JR. (P-DOR)
WILETS, LAWRENCE

22-14
EXTRACTION OF NEUTRON - NEUTRON SCATTERING LENGTH FROM THE REACTION PI - DEUTERON TO GAMMA NEUTRON - NEUTRON.
PHYS. REV., V.C11, P.90-9. 1975.
(LA-UR-74-1445)*
GIBBS, WILLIAM R. (T-5)
GIBSON, BENJAMIN F. (T-5)
STEPHENSON, GERARD J., JR. (T-5)

22-15
EXTRACTION OF NEUTRON - NEUTRON SCATTERING LENGTH FROM THE REACTION PI - DEUTERON TO GAMMA NEUTRON - NEUTRON. ERRATUM.
PHYS. REV., V.C12, P.2130. 1975.
(LA-UR-74-1445 REV.)*
GIBBS, WILLIAM R. (T-5)
GIBSON, BENJAMIN F. (T-5)
STEPHENSON, GERARD J., JR. (T-5)

22-16
FRAGMENT PRODUCTION IN THE INTERACTION OF 800 MEV PROTONS WITH URANIUM.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.170, PAPER NO.NUCL-13. 1975.
BUTLER, GILBERT W. (CNC-11)
PERRY, DENNIS G. (CNC-11)
POSKANZER, A. M.
NATOWITZ, J. B.
PLASIL, F.
REMSBERG, L. P.

22-17
HEATING BY SECONDARY PARTICLES AT MESON FACTORIES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.184. 1975.
THOMPSON, PATRICK A. (MP-7)

22-18
HIGH ENERGY NEUTRON SPECTRA AT THE LAMPF RADIATION EFFECTS FACILITY.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.171-2. 1975.
SIMMONS, MARGARET L. (CMB-8)
DUDZIAK, DONALD J. (T-1)

22-19
INCREASING THE RELEVANCE OF DATA PRESENTED TO THE OPERATORS IN AN ACCELERATOR CONTROL SYSTEM.
TIC, 1975. 5P. MN (LA-UR-75-372)
ALSO PUBLISHED IN:
IEEE TRANS. NUCL. SCI., V.NS-22, P.1082-5. 1975.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.194. 1975.
SWAIN, GEORGE R. (MP-9)

22-20
INELASTIC PION - NUCLEUS SCATTERING IN DWIA.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.84. 1975.
HESS, ANDREW T. (T-5)
EISENBERG, J. M.

22-21
INSTRUMENTATION OPERATING EXPERIENCE ON LAMPF MAIN BEAM LINES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.199. 1975.
VAN DYCK, OLIN B. (MP-7)
HARVEY, ALEXANDER (MP-7)
HOWARD, HILLARD H. (MP-DO)
ROEDER, DENNIS L. (MP-7)

22-22
KILOTON SHIELD DOORS AT LAMPF.
REMOTE SYSTEMS TECHNOLOGY. 1974. 22ND CONFERENCE, WASHINGTON. PROC., P.43-51. ANS, 1975.
(626:H832C 23RD AND 22ND)
(LA-UR-75-1145)*
WILSON, MAHLON T. (MP-7)

22-23
LAMPF EXPERIMENTAL AREA BEAM CURRENT MONITORS.
TIC, 1975. 15P. MN (LA-UR-75-900)
ALSO PUBLISHED IN:
J. VAC. SCI. TECHNOL., V.12, P.1200-2. 1975. (LA-UR-75-900)*
TALLERICO, PAUL J. (MP-8)

22-24
LAMPF MUON CHANNEL OPERATION.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.200. 1975.
THOMPSON, PATRICK A. (MP-7)
LYSENKO, W.
GRAM, PETER A. M. (MP-4)

22-25
LAMPF PROTON LINAC PERFORMANCE.
TIC, 1975. 14P. MN (LA-UR-74-1448)
JAMESON, ROBERT A. (MP-9)

22-26
MASSIVE SHIELDING ADAPTED TO REMOTE MAINTENANCE METHODS.
REMOTE SYSTEMS TECHNOLOGY, 1975. 23RD CONFERENCE, SAN FRANCISCO. PROC., P.20-3. ANS, 1975.
(626:H832C 23RD AND 22ND)
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.732-3. 1975.
FRANKE, PAUL R., JR. (MP-7)

22-27
MEASUREMENT OF THE 0 DEGREE NEUTRON SPECTRA FROM 647 AND 800 MEV PROTON BOMBARDMENT OF LIGHT NUCLEI.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.83. 1975.
CASSAPAKIS, CONSTANTINE G.
BRYANT, HOWARD C.
COHEN, STANLEY
DIETERLE, BYRON D.
WOLFE, DAVID M.
BONNER, BILLY E. (P-DOR)
ET AL

22-28
MEASUREMENT OF THE NEUTRON FLUX GENERATED BY THE LAMPF 800 MEV PROTON BEAM STOP.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.211. LASL, 1975. (LA-6030-C)
PERRY, DENNIS G. (CNC-11)

22-29
MEDIUM ENERGY PHYSICS PROGRAM, FEBRUARY 1 - APRIL 30, 1975.
LASL, 1975. 110P. (LA-6109-PR)
MP DIVISION STAFF

22-30
MEDIUM ENERGY PHYSICS PROGRAM, MAY 1 - JULY 31, 1975.
LASL, 1975. 65P. (LA-6156-PR)
DUNN, ELEANOR D. (MP-DO) COMP.

22-31
MESON - THEORETIC POTENTIALS AND THE HYPERTRITON: A REPLY.
PHYS. REV., V.C11, P.2092-3. 1975.
(LA-UR-75-355)*
GIBSON, BENJAMIN F. (T-5)
LEHMAN, DONALD R.

22-32
MONITOR: A VERSATILE REMOTE HANDLING SYSTEM.
REMOTE SYSTEMS TECHNOLOGY, 1975. 23RD CONFERENCE, SAN FRANCISCO. PROC., P.242-6. ANS, 1975.
(626:H832C 23RD AND 22ND)
(LA-UR-75-1089)*
ALSO PUBLISHED AS:
TIC, 1975. 20P. MN (LA-UR-75-1089)
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.756-8. 1975.
HORNE, ROGER A. (MP-7)
EKBERG, ETHEN L. (MP-7)

22-33
NON-INTERCEPTING POSITION MONITOR FOR THE LAMPF WNR BEAM.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER 2, V.20, P.601, 1975.
JACKSON, JASPER A., JR. (P-11)
GUTSCHER, WILLIAM D. (E-4)
PARKER, JOSEPH R. (E-3)
COOPER, RICHARD K.

22-34
OBSERVATION OF THE E2 NUCLEAR RESONANCE EFFECT IN PIONIC CADMIUM -112.
PHYS. REV. LETT., V.34, P.303-6. 1975.
(LA-UR-74-1691)*
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.92. 1975.
LEON, MELVIN (MP-3)
BRADBURY, JAMES N. (MP-3)
DANIEL, HERBERT (MP-3)
REIDY, JAMES J.

22-35
OFF-SHELL EFFECTS IN THE REACTION PROTON + PROTON TO NEUTRON + PROTON + POSITIVE PION.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.83. 1975.
SLANSKY, RICHARD C. (T-8)
GIBBS, WILLIAM R. (T-5)
GIBSON, BENJAMIN F. (T-5)
STEPHENSON, GERARD J., JR. (T-5)

22-36
OPERATING EXPERIENCE WITH LAMPF MAIN BEAM LINES INSTRUMENTATION AND CONTROL SYSTEM.
TIC, 1975. 5P. MN (LA-UR-75-426)
ALSO PUBLISHED IN:
IEEE TRANS. NUCL. SCI., V.NS-22, P.1570-3. 1975. (LA-UR-75-426)*
VAN DYCK, OLIN B. (MP-7)
HARVEY, ALEXANDER (MP-7)
HOWARD, HILLARD H. (MP-7)
ROEDER, DENNIS L. (MP-7)

22-37
PARTICLE SEPARATOR AT LOS ALAMOS.
TIC, 1975. 5P. MN (LA-UR-75-439)
ALSO PUBLISHED IN:
IEEE TRANS. NUCL. SCI., V.NS-22, P.1522-5. 1975.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.216. 1975.
LISKA, DONALD J. (MP-9)

22-38
PERFORMANCE OF THE HIGH ENERGY PION BEAM AT LAMPF.
TIC, 1975. 5P. MN (LA-UR-75-373)
ALSO PUBLISHED IN:
IEEE TRANS. NUCL. SCI., V.NS-22, P.1598-600. 1975. (LA-UR-74-1646)*
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.200. 1975.
WERBECK, RICHARD D. (MP-7)
MACEK, ROBERT J. (MP-7)

22-39
PERFORMANCE OF THE LAMPF H MINUS INJECTOR.
TIC, 1975. 12P. MN (LA-UR-74-1351)
ALLISON, PAUL W. (MP-9)
MEYER, EARL A. (MP-9)
MUELLER, DONALD W. (MP-9)
STEVENS, RALPH R., JR. (MP-9)

22-40
PI - MESON ABSORPTION ON THE DEUTERON.
THESIS, UNIV. OF NEW MEXICO, 1974.
LASL, 1975. 202P. (LA-5854-T)
GOPLEN, BRUCE C. (MP-9)

22-41
PI-MINUS D TO GAMMA NN AND MU-MINUS D TO NU NN.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.84. 1975.
STEPHENSON, GERARD J., JR. (T-5)
GIBSON, BENJAMIN F. (T-5)
GIBBS, WILLIAM R. (T-5)

22-42
PION CHARGE EXCHANGE ON CARBON -13.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.84. 1975.
KAUFMANN, WILLIAM B. (T-5)
HESS, ANDREW T. (T-5)
GIBBS, WILLIAM R. (T-5)

22-43
PROGRESS REPORT. RESEARCH ON CARBON - ALUMINUM COMPOSITES AUGUST 1 - DECEMBER 31, 1974.
LASL, 1975. 18P. (LA-5908-PR)
IMPRESCIA, RICHARD J. (CMB-8)
LEVINSON, LEONARD S. (CMB-8)
REISWIG, ROBERT D. (CMB-8)
WALLACE, TERRY C. (CMB-3)
WILLIAMS, JOEL M. (CMB-8)

22-44
PROTOTYPE HIGH CURRENT, HIGH DUTY FACTOR NEGATIVE HYDROGEN ION SOURCE FOR LAMPF.
IEEE TRANS. NUCL. SCI., V.NS-22, P.1640-2. 1975.
TIC, 1975. 4P. MN (LA-UR-75-401)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.202. 1975.
LAWRENCE, GEORGE P. (P-11)
HAYWARD, THOMAS D. (P-11)
JACKSON, JASPER A., JR. (P-11)

22-45
PULSED BEAM CHOPPER FOR LAMPF.
IEEE TRANS. NUCL. SCI., V.NS-22, P.1526-8. 1975.
TIC, 1975. 4P. MN (LA-UR-75-403)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.216. 1975.
BENTLEY, RICHARD F. (P-11)
LUNSFORD, JAMES S. (E-3)
LAWRENCE, GEORGE P. (P-11)

22-46
QUADRAPOLE MAGNET MEASUREMENT.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1170 1975.
IVERSON, STEVEN (MP-10)
MORRIS, CHRISTOPHER L. (MP-10)
THIESSEN, HENRY A. (MP-10)
HALBACH, KLAUS (MP-DO)

22-47
QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1975.
LASL, 1975. 87P. (LA-5959-PR)
DUNN, ELEANOR D. (MP-DO) COMP.

22-48
QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1974.
LASL, 1975. 104P. (LA-5845-PR)
DUNN, ELEANOR D. (MP-DO) COMP.

22-49
REACTION CARBON -13 (PI-PLUS, PI-ZERO) NITROGEN -13 (G.S.) FOR E(PI-PLUS) = 30 TO 190 MEV.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.84. 1975.
ALSTER, JONAS (MP-4)
ASHERY, D.
COCHAVI, S.
MOINSTER, M. A.
SHAMAI, Y.
YAVIN, A. I.
ZAIDER, M.
ARTHUR, EDWARD D. (P-3)
DRAKE, DARRELL M. (P-3)

22-50
RECENT EXPERIMENTAL RESULTS OF THE MESIC CHEMISTRY PROGRAM AT LAMPF.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.122. LASL, 1975. (LA-6030-C)
KNIGHT, JERE D. (CNC-11)
ORTH, CHARLES J. (CNC-11)
SCHILLACI, MARIO E. (MP-3)
ET AL

22-51
TECHNIQUES FOR HIGH PRECISION MAGNETIC FIELD MAPPING OF LARGE AREA DIPOLES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1169. 1975.
BOYER, K. G. (MP-10)
SLATER, DONALD (MP-10)
THOMASON, MICHAEL D. (MP-10)
THIESSEN, HENRY A. (MP-10)

22-52
TESTING AND CALIBRATION OF A FARADAY CUP AND OTHER INTENSITY MONITORS FOR THE EXTERNAL PROTON BEAM AT LAMPF.
NUCL. INSTRUM. METHODS, V.129, P.441-5. 1975.
BARRETT, RICHARD J. (***)
ANDERSON, B. D.
WILLARD, H. B.
ANDERSON, ALAN N. (***)
JARMIE, NELSON (***)

22-53
TWO BODY PHOTODISINTEGRATION OF HELIUM -3 AND HYDROGEN -3.
PHYS. REV., V.C11, P.29-42. 1975.
(LA-UR-74-1259)*
GIBSON, BENJAMIN F. (T-5)
LEHMAN, DONALD R.

22-54
USE OF MUONIC X RAYS FOR TISSUE ANALYSIS.
IEEE TRANS. NUCL. SCI., V.NS-22, P.1780-3. 1975.
REIDY, JAMES J.
HUTSON, RICHARD L. (MP-3)
SPRINGER, KLAUS (MP-DO)

22-55
VERSATILE MULTIPOLE CORRECTION MAGNET OF RECTANGULAR APERTURE.
NUCL. INSTRUM. METHODS, V.129, P.47-51. 1975.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1170. 1975.
THIESSEN, HENRY A. (MP-10)
PETERSON, R. J. (MP-10)
KRAUSHAAR, J. J.
RISTINEN, R. A.
RICKEY, MARTIN

23. METALLURGY AND CERAMICS TECHNOLOGY

23-1
APPLICATION OF MODERN GAMMA SCANNING TECHNIQUE.
ABSTRACT PUBLISHED IN:
BULL. AM. CERAM. SOC., V.53, P.368, 1974.
PHILLIPS, JOHN R. (CMB-1)
VANDERBORGH, NICHOLAS E. (CMB-1)
WATERBURY, GLENN R. (CMB-1)

23-2
BIBLIOGRAPHY OF CHEMISTRY AND METALLURGY DOCUMENTS RECEIVED BY THE LOS ALAMOS DOCUMENT ROOM IN THE PERIOD JANUARY 1, 1947 TO JANUARY 1, 1948.
LASL, 1948. DECLASSIFIED 1971. 58P.
(LAMS-730)
METZ, CHARLES F.

23-3
CERAMICS FOR NUCLEAR APPLICATIONS.
TIC, 1975. 24P. MN (LA-UR-74-1205)
ALSO PUBLISHED IN:
CERAMIC ENGINEERING AND SCIENCE, 1974. CONFERENCE, ALFRED, NY. PROC., P.193-215. PLENUM, 1974.** (LA-UR-74-1205)*
STODDARD, STEPHEN D. (CMB-6)

23-4
CHEMICAL METHODS FOR PREPARATION OF COMBINATIONS OF MOLYBDENUM, TUNGSTEN, AND URANIUM OXIDES.
LASL, 1961. DECLASSIFIED 1971. 21P.
(LA-2559)
HAYTER, SIDNEY W.

23-5
CHEMICAL VAPOR DEPOSITION OF TUNGSTEN.
LASL, 1965. DECLASSIFIED 1973. 34P.
(LA-3295-MS)
FAIRCHILD, CHARLES I.
RILEY, ROBERT E.

23-6
COKING YIELD AND THE ACIDITY OF CARBON BLACK.
CARBON, V.13, P.81-2. 1975.
(LA-UR-74-911)*
WILLIAMS, JOEL M. (CMB-8)
IMPRESCIA, RICHARD J. (CMB-8)

23-7
COMPATIBILITY OF CONTAINER MATERIALS WITH PLUTONIUM DIOXIDE.
ABSTRACT PUBLISHED IN:
J. METALS, V.27, P.A62. 1975.
PAVONE, DANIEL (CMB-5)
PETERSON, DEAN E. (CMB-5)
BRONISZ, STANLEY E. (CMB-5)

23-8
CONTROLLED POROSITY FILTER AND UNIFORM STRUCTURE COMPOSITES.
FILED 1974. PATENTED SEP. 23, 1975.
(U. S. PATENT 3,907,513)
SHEINBERG, HASKELL (CMB-6)

23-9
DEGRADATION OF PIONEER TYPE TANTALUM ALLOY - PLUTONIUM DIOXIDE HEAT SOURCES.
LASL, 1975. 14P. (LA-5932)
MULFORD, ROBERT N. R. (CMB-5)

23-10
DUCTILE TO BRITTLE TRANSITION OF URANIUM - 0.75 WT PERCENT TITANIUM PENETRATOR CORES.
LASL, 1975. 10P. (LA-6064-MS)
JONES, THOMAS L., JR. (CMB-6)
SANDSTROM, DONALD J. (CMB-6)

23-11
EFFECT OF GALLIUM ON PLUTONIUM ASSAY.
LASL, 1962. DECLASSIFIED 1972. 20P.
(LA-2859)
BERGSTRESSER, KARL S.
WATERBURY, GLENN R.

23-12
EFFECT OF PRESSURE ON CURIE TEMPERATURE OF URANIUM (FE1-XMNX)2 COMPOUNDS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.18, P.360, 1973.
EDWARDS, L. R.
OLSEN, CLAYTON E. (CMB-8)

23-13
EFFECT OF STRAIN AGING ON THE DYNAMIC ELASTIC - PLASTIC PROPERTIES OF IRON.
MECHANICAL PROPERTIES AT HIGH RATES OF STRAIN. 1974. CONFERENCE, OXFORD. PROC., P.177-86. INSTITUTE OF PHYSICS, 1974. (531:M486P) (LA-UR-74-165)*
ZUKAS, EUGENE G. (CMB-8)
TAYLOR, JOHN W. (M-2)

23-14
EFFECT OF STRAIN RATE ON THE TENSILE PROPERTIES OF ALPHA AND DELTA STABILIZED PLUTONIUM.
TIC, 1975. 13P. MN (LA-UR-75-1415)
HECKER, SIEGFRIED S. (CMB-5)
MORGAN, JAMES R. (CMB-5)

23-15
EFFECTS OF NEUTRON IRRADIATION ON CRITICAL CURRENT OF NIOBIUM3TIN AT HIGH FIELD.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.157-8, 1975.
SNEAD, C. L., JR
PARKIN, DON M. (CMB-8)

23-16
EFFECTS OF REACTOR NEUTRON, 14 MEV NEUTRON AND ENERGETIC CHARGED PARTICLE IRRADIATIONS ON THE CRITICAL CURRENT IN NIOBIUM3TIN.
TIC, 1975, 11P, MN (LA-UR-75-1849)
PARKIN, DON M. (CMB-8)
SNEAD, C. L., JR

23-17
EFFECTS OF SOLUTION AND INTERMEDIATE HEAT TREATMENTS ON THE NOTCH - RUPTURE BEHAVIOR OF INCONEL 718.
METALL. TRANS., V.A6, P.2221-7, 1975.
(LA-UR-74-1114)*
MULLER, JAMES F. (CMB-6)
DONACHIE, MATTHEW J., JR

23-18
ELASTIC CONSTANTS AND SOUND VELOCITIES 4. THE ELASTIC CONSTANTS OF PLUTONIUM
LASL, 1949, DECLASSIFIED 1971, 39P.
(LAMS-861)
LAQUER, HENRY L.

23-19
ELEVATED TEMPERATURE STRENGTHENING OF MELT GROWN SAPPHIRE BY ALLOYING.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.170, PAPER NO.CELL-22, 1975.
HURLEY, GEORGE F. (CMB-5)
LA BELLE, H. E., JR
MITCHELL, C. R.
COCKS, F. H.

23-20
EXPERIMENTS ON URANIUM LOSS FROM URANIUM LOADED GRAPHITE AT ELEVATED TEMPERATURES.
LASL, 1956, DECLASSIFIED 1971, 16P.
(LAMS-2101)
CAVANAUGH, J. F.
ET AL.

23-21
FAILURE OBSERVATIONS ON ENCAPSULATED EXPERIMENTAL MARK-II FUEL ELEMENTS IRRADIATED IN EBR-II.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.191-2, 1975.
OLSON, N. J.
FLINN, J. E.
JOHNSON, KAYE ALLAN (CMB-11)

23-22
FRACTURE BEHAVIOR OF A PLATINUM30 PERCENT RHENIUM8 PERCENT TUNGSTEN ALLOY BETWEEN ROOM TEMPERATURE AND 1300 DEGREES CELSIUS.
TIC, 1975, 21P, MN (LA-UR-75-1189)
ROHR, DANA L. (CMB-5)
HECKER, SIEGFRIED S. (CMB-5)

23-23
FRACTURE BEHAVIOR OF IRIDIUM - 0.3 PERCENT TUNGSTEN AT HIGH STRAIN RATES
ABSTRACT PUBLISHED IN:
J. METALS, V.27, P.A62, 1975.
FRANTZ, CHARLES E. (CMB-5)
HECKER, SIEGFRIED S. (CMB-5)

23-24
HEAT OF COMBUSTION OF DELTA PLUTONIUM
LASL, 1959, DECLASSIFIED 1971, 8P.
(LA-2336)
HUBER, ELMER J., JR
HEAD, EARL L.
HOLLEY, CHARLES E., JR

23-25
HELIUM EFFECTS IN PLUTONIUM-238 DIOXIDE FUEL FORMS.
ABSTRACT PUBLISHED IN:
J. METALS, V.27, P.A65, 1975.
MULFORD, ROBERT N. R. (CMB-5)

23-26
HELIUM RELEASE OF PLUTONIA-238 MOLYBDENUM CERMET FUEL.
LASL, 1975, 18P. (LA-5820)
MUELLER, BARBARA A. (CMB-5)
ROHR, DANA L. (CMB-5)
LAND, CLETIS C. (CMB-5)
MULFORD, ROBERT N. R. (CMB-5)

23-27
HIGH DENSITY METALS AND METALLIC COMPOSITES FOR IMPROVED FRAGMENTATION SUBMUNITIONS.
LASL, 1975, 26P. (LA-6069-MS)
CRAIG, BOBBY G. (M-3)
HONNELL, RICHARD E. (CMB-8)
LEDERMAN, GORDON F., JR. (M-3)
SANDSTROM, DONALD J. (CMB-6)

23-28
HIGH ENERGY PROTON SIMULATION OF 14 MEV NEUTRON DAMAGE IN ALUMINUM OXIDE
TIC, 1975, 17P, MN (LA-UR-75-1813)
MUIR, DOUGLAS W. (T-2)
BUNCH, JAMES M. (CMB-5)

23-29
HIGH RATE PHYSICAL VAPOR DEPOSITION OF REFRACTORY METALS
TIC, 1974, 39P, MN (LA-UR-74-937(REV.1)
ALSO PUBLISHED IN:
J. VAC. SCI. TECHNOL., V.12, P.697-703, 1975. (LA-UR-74-937(REV.1)*
SHERMAN, MAX A. (CMB-8)
BUNSHAH, R. F.
BEALE, HARRY A.

23-30
IMPROVEMENT IN OXIDATION RESISTANCE OF THE LEADING EDGE THERMAL PROTECTION FOR A SPACE SHUTTLE
J. SPACECR. ROCKETS, V.12, P.151-4, 1975. (LA-UR-74-1014)*
WILLIAMS, JOEL M. (CMB-8)
IMPRESCIA, RICHARD J. (CMB-8)

23-31
INTERACTION BETWEEN CESIUM AND GRAPHITE FOR USE IN THE STUDY OF SURFACE PHENOMENA.
LASL, 1975, 10P. (LA-6146-MS)
HOLIAN, BRAD LEE (T-DOT)

23-32
LARGE STRAIN DEFORMATION OF POLYCRYSTALLINE METALS AT LOW HOMOLOGOUS TEMPERATURE.
J. MECH. PHYS. SOLIDS, V.23, P.87-98, 1975. (LA-UR-74-1656)*
HOCKETT, JOHN E., JR. (WX-5)
SHERBY, OLEG D. (WX-5)

23-33
LIMITED EVALUATION OF THE CORROSION OF URANIUM AND WEAPON ASSOCIATED METALS IN SUBSTITUTE OCEAN WATER.
LASL, 1966. DECLASSIFIED 1972. 26P. (LA-3590-MS)
PETERSON, CHARLES L.

23-34
LOW TEMPERATURE THERMAL AND ELECTRICAL PROPERTIES OF CHEMICAL VAPOR DEPOSITED NIOBIUM-GERMANIUM.
J. LESS-COMMON METALS, V.43, P.5-11, 1975.
HARPER, J. M. E.
GEBALLE, T. H.
NEWKIRK, LAWRENCE R. (***)
VALENCIA, FLAVIO A. (***)

23-35
MAGNETISM IN NEPTUNIUM BORIDES.
TRC, 1975. 8P. MN (LA-UR-74-1625)
SMITH, JAMES L. (CMB-5)
HILL, H. HUNTER (CMB-5)

23-36
MAGNETISM IN NEPTUNIUM BORIDES.
MAGNETISM AND MAGNETIC MATERIALS 1974. 20TH ANNUAL CONFERENCE, SAN FRANCISCO. PROC., P.382-3. AIP, 1974. (538-C748M 20TH) (LA-UR-74-1196)*
SMITH, JAMES L. (CMB-5)
HILL, H. HUNTER (CMB-5)

23-37
MATRIX MOTION OF LOW VOLUME MATRIX TUNGSTEN-NICKEL-IRON COMPOSITES SINTERED IN A TEMPERATURE GRADIENT.
J. MATER. SCI., V.10, P.863-9, 1975. (LA-UR-74-1125)*
ZUKAS, EUGENE G. (CMB-8)
LEVINSON, LEONARD S. (CMB-8)

23-38
MECHANICAL PROPERTIES OF PLUTONIUM-238 DIOXIDE.
ABSTRACT PUBLISHED IN:
J. METALS, V.27, P.A65, 1975.
PETROVIC, JOHN J. (CMB-5)
HECKER, SIEGFRIED S. (CMB-5)

23-39
METAL PRODUCTION PROCESS MANUAL: PLUTONIUM PRODUCTION.
LASL, 1948. DECLASSIFIED 1971. 137P. (LAMS-692)
VENABLE, ISAAC B.
ET AL.

23-40
METASTABLE FCC PLUTONIUM - CERIUM SOLID SOLUTIONS.
MATER. SCI. ENG., V.18, P.239-43, 1975.
GIESSEN, BILL C.
STRUEBING, VERNON O. (CMB-5)
ELLIOTT, REED O. (CMB-5)

23-41
NEW METHOD FOR COATING MICROSPHERES WITH ZIRCONIUM CARBIDE AND ZIRCONIUM CARBIDE - CARBON GRADED COATS.
LASL, 1975. 6P. (LA-6012)
HOLLABAUGH, CHARLES M. (CMB-8)
REISWIG, ROBERT D. (CMB-8)
WAGNER, PAUL (CMB-8)
WAHMAN, LYLE A. (CMB-8)
WHITE, RALPH W. (CMB-3)

23-42
NEW METHOD FOR COATING MICROSPHERES WITH ZIRCONIUM CARBIDE AND ZIRCONIUM CARBIDE - CARBON GRADED COATS.
J. NUCL. MATER., V.57, P.325-32, 1975. (LA-UR-75-291)*
HOLLABAUGH, CHARLES M. (CMB-8)
REISWIG, ROBERT D. (CMB-8)
WAGNER, PAUL (CMB-8)
WAHMAN, LYLE A. (CMB-8)
WHITE, RALPH W. (CMB-8)

23-43
ON THE DIFFUSION OF DIVALENT IMPURITIES IN ALUMINUM.
PHYS. STATUS SOLIDI, V.B69, P.23-7, 1975.
DU CHARME, A. R.
STRAUB, GALEN K. (TD-4)

23-44
ONE DIMENSIONAL ELASTIC - PLASTIC CALCULATIONS INVOLVING STRAIN HARDENING AND STRAIN RATE EFFECTS FOR ALUMINUM.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.30, 1975.
SWANSON, RICHARD E. (T-4)

23-45
ONE DIMENSIONAL ELASTIC - PLASTIC CALCULATIONS INVOLVING STRAIN HARDENING AND STRAIN RATE EFFECTS FOR ALUMINUM.
LASL, 1975. 21P. (LA-5831)
SWANSON, RICHARD E. (T-4)
MADER, CHARLES L. (T-4)

23-46
PROCESS FOR IMPROVING THE LOW TEMPERATURE DUCTILITY OF TUNGSTEN BASE COMPOSITES.
LASL, 1975. 14P. (LA-5962-MS)
ZUKAS, EUGENE G. (CMB-5)

23-47
PROGRESS REPORT. RESEARCH ON CARBON - ALUMINUM COMPOSITES, SEPTEMBER 1, 1973-JANUARY 31, 1974.
LASL, 1974. 33P. (LA-5567-PR)
ALSO PUBLISHED AS:
NASA, 1975. 28P. (NASA-CR-2533)
IMPRESCIA, RICHARD J. (CMB-8)
LEVINSON, LEONARD S. (CMB-8)
REISWIG, ROBERT D. (CMB-8)
WALLACE, TERRY C. (CMB-3)
WILLIAMS, JOEL M. (CMB-8)

23-48
RELATION OF FABRICATION PARAMETERS TO RTG FUEL PROPERTIES.
ABSTRACT PUBLISHED IN:
BULL. AM. CERAM. SOC., V.53, P.620.
1974.
KEENAN, THOMAS K. (CMB-11)
KENT, RICHARD A. (CMB-11)
ZOCHER, ROY W. (CMB-11)

23-49
RESEARCH AND DEVELOPMENT ON GRAPHITE AND GRAPHITE MATRIX COMPOSITES AT LASL.
REFRACTORY COMPOSITES. 1971. 18TH WORKING GROUP MEETING, MARSHALL SPACE FLIGHT CENTER, AL. SUMMARY, P.209-15.
NASA, 1971. (NASA-LA-102)
SMITH, MORTON C. (CMB-13)

23-50
RESEARCH ON CARBON - ALUMINUM COMPOSITES. JANUARY 1 - JUNE 30, 1975.
LASL, 1975. 40P. (LA-6081-PR)
IMPRESCIA, RICHARD J. (CMB-8)
LEVINSON, LEONARD S. (CMB-8)
REISWIG, ROBERT D. (CMB-8)
WALLACE, TERRY C. (CMB-3)
WILLIAMS, JOEL M. (CMB-8)

23-51
RESPONSE OF IRON TO DYNAMIC COMPRESSION. MECHANICAL PROPERTIES AT HIGH RATES OF STRAIN. 1974. CONFERENCE, OXFORD. PROC., P.53-61. INSTITUTE OF PHYSICS, 1974. (531:M486P) (LA-UR-74-1279)*
HOCKETT, JOHN E., JR. (WX-5)
ZUKAS, EUGENE G. (CMB-8)

23-52
SPALLING OF METAL PLATES.
LASL, 1946. DECLASSIFIED 1971. 10P. (LA-587)
SKYRME, TONY H. R.

23-53
SPECIAL REPORT PRESENTED AT JULY MEETING WITH C. A. THOMAS ON FINAL PURIFICATION AND METALLURGY OF 49.
LASL, 1944. DECLASSIFIED 1971. 27P. (LAMS-112)
KENNEDY, JOSEPH W.
SMITH, CYRIL S.

23-54
SPECIAL REPORT PRESENTED AT MAY MEETING WITH C. A. THOMAS ON FINAL PURIFICATION AND METALLURGY OF 49.
LASL, 1944. DECLASSIFIED 1971. 10P. (LAMS-90)
KENNEDY, JOSEPH W.
SMITH, CYRIL S.

23-55
SPLAT COOLING OF SOME ACTINIDE ALLOYS.
TIC, 1975. 13P. MN (LA-UR-75-1414)
ELLIOTT, REED O. (CMB-5)
GIESSEN, BILL C.

23-56
STRENGTHENING OF LIQUID SINTERED TUNGSTEN ALLOYS.
TIC, 1973. 24P. MN (LA-UR-73-919)
ALSO PUBLISHED IN:
POWDER METALLURGY. 1973. INTERNATIONAL CONFERENCE, TORONTO. PROC., MODERN DEVELOPMENTS IN POWDER METALLURGY, V.8, P.329-52. METAL POWDER INDUSTRIES FEDERATION, 1974. (671:I61PO 1973 V.8) (LA-UR-73-919)*
RILEY, ROBERT E. (CMB-6)
DICKINSON, JAMES M. (CMB-6)
TAUB, JAMES M. (CMB-6)

23-57
THEORY OF IRRADIATION INDUCED GROWTH OF FATIGUE CRACKS.
J. NUCL. MATER., V.55, P.253-8. 1975. (LA-UR-74-1195)*
WEERTMAN, JOHANNES (CMB-8)

23-58
THERMAL AND OTHER PROPERTIES OF REFRACTORIES. TECHNICAL REPORT PROGRAM NO. R056.
LASL, 1975. 51P. (LA-5937-MS)
VIER, DWAYNE T. (CMB-3)

23-59
THERMODYNAMIC PROPERTIES OF PLUTONIUM HEXAFLUORIDE. A PRELIMINARY REPORT.
LASL, 1953. DECLASSIFIED 1974. 9P. (LAMS-1587)
FLORIN, ALAN E.

23-60
USE OF A GENERAL PURPOSE HEAT TRANSFER CODE FOR CASTING SIMULATION.
THESIS, UNIV. OF NEW MEXICO, 1975.
LASL, 1975. 150P. (LA-6001-T)
ERICKSON, WILLIAM C. (CMB-6)

23-61
USE OF INTERMEDIATE HEAT TREATMENTS FOR THE RESTORATION OF THE NOTCH RUPTURE PROPERTIES OF INCONEL 718.
ABSTRACT PUBLISHED IN:
J. METALS, V.27, P.A25. 1975.
MULLER, JAMES F. (CMB-6)
DONACHIE, MATTHEW J., JR.

23-62
USE OF URANIUM -237 TRACER IN MONITORING PLUTONIUM SCRAP RECOVERY OPERATIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. CERAM. SOC., V.53, P.371. 1974.
CARLSON, R. V.
MARSH, SINCLAIR F. (CMB-1)

23-63
VAPOR PHASE COATINGS OF METALS AND ORGANICS FOR LASER FUSION TARGET APPLICATIONS.
TIC, 1975. 29P. MN (LA-UR-75-511)
SIMONSIC, GARY A. (CMB-6)
POWELL, BILLY W. (CMB-6)

23-64
YIELD STRENGTH OF FINE GRAINED VANADIUM PRODUCED BY HIGH RATE PHYSICAL VAPOR DEPOSITION.
J. NUCL. MATER., V.57, P.151-4. 1975.
SHERMAN, MAX A. (***)
BUNSHAH, R. F.

23-65
ZIRCONIUM CARBIDE, A KEY INGREDIENT FOR HIGH TEMPERATURE NUCLEAR FUELS.
TIC, 1975. 13P. MN (LA-UR-75-1321)
ALSO PUBLISHED IN:
GAS COOLED REACTORS WITH EMPHASIS ON ADVANCED SYSTEMS. 1975. SYMPOSIUM. JULICH, GERMANY. PROC., V.1, P.277-87. IAEA, 1976.** (IAEA-SM-200/18)
WAGNER, PAUL (CMB-8)
HOLLABAUGH, CHARLES M. (CMB-8)
BARD, RICHARD J. (CMB-8)

24. NEUTRONICS AND CRITICALITY STUDIES

24-1
ANALYTIC TRANSPORT THEORY SOLUTIONS FOR STEADY SOURCES IN PURE ABSORBERS.
LASL, 1975. 12P. (LA-6105-MS)
LEE, CLARENCE E. (TD-4)

24-2
CALCULATIONS OF COULOMB ENERGIES FOR UNIFORM CHARGE DISTRIBUTIONS OF ARBITRARY SHAPE.
J. COMPUT. PHYS., V.18, P.311-25, 1975. (LA-UR-74-790)*
DAVIES, K. T. R. (T-9)
SIERK, ARNOLD J. (T-9)

24-3
CALCULATIONS OF FAST CRITICAL ASSEMBLIES USING ENDF/B-IV CROSS SECTION DATA.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.722, 1975.
HIRONS, THOMAS J. (TD-6)
SEAMON, ROBERT E. (TD-6)

24-4
CAPSULE STORAGE AND DENSITY - ANALOG TECHNIQUES.
LASL, 1975. 12P. (LA-5930-MS)
PAXTON, HUGH C. (A-5)

24-5
CENTRAL NEUTRON SPECTRUM OF THE FAST CRITICAL ASSEMBLY BIG-TEN.
NUCL. TECHNOL., V.25, P.381-9, 1975. (LA-UR-74-62)*
DOWDY, EDWARD J. (A-2)
LOZITO, EDWARD J.
PLASSMANN, EUGENE A. (P-5)

24-6
COARSE MESH REBALANCE METHODS COMPATIBLE WITH THE SPHERICAL HARMONIC FICTITIOUS SOURCE IN NEUTRON TRANSPORT CALCULATIONS.
LASL, 1975. 16P. (LA-6145-MS)
MILLER, WARREN F., JR. (T-1)

24-7
CRITICAL ASSEMBLIES.
LASL, 1947. DECLASSIFIED 1972. 82P. (LA-1033)
FRISCH, OTTO R.
ET AL

24-8
CRITICAL ASSEMBLIES.
LASL, 1947. DECLASSIFIED 1972. 92P. (LA-1036)
BAKER, CHARLES P.

24-9
DISCRETE ORDINATE TO SPHERICAL HARMONIC CONVERSIONS FOR RAY EFFECT MITIGATION IN X-Y GEOMETRY.
TIC, 1975. 30P. MN (LA-UR-75-185)
ALSO PUBLISHED IN:
COMPUTATIONAL METHODS IN NUCLEAR ENGINEERING, 1975. CONFERENCE, CHARLESTON, SC. PROC. V.2, P.III-101-25. ERDA, 1975. (CONF-750413, VOL.2)
MILLER, WARREN F., JR. (T-1)
REED, WILLIAM H. (T-1)

24-10
EFFECTS OF NEUTRON STREAMING AND GEOMETRIC MODELS ON MOLTEN FUEL RECRITICALITY ACCIDENTS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.372-3, 1975.
MC LAUGHLIN, THOMAS P. (A-5)

24-11
EFFECTS OF NEUTRON STREAMING AND GEOMETRIC MODELS ON MOLTEN FUEL RECRITICALITY ACCIDENTS.
LASL, 1975. 14P. (LA-6127-MS)
MC LAUGHLIN, THOMAS P. (A-5)

24-12
GENERALIZED DIFFUSION THEORY FOR CALCULATING THE NEUTRON TRANSPORT SCALAR FLUX.
NUCL. SCI. ENG., V.56, P.321-39, 1975. (LA-UR-73-1510)*
ALCOUFFE, RAYMOND E. (T-1)

24-13
LINEAR DISCONTINUOUS FINITE ELEMENT SCHEME IN TIME DEPENDENT TRANSPORT CALCULATIONS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21, P.228-30, 1975.
HILL, THOMAS R. (T-1)

24-14
LOS ALAMOS CRITICAL MASS DATA.
LASL, 1975. 57P. (LA-3067-MS, REV.)
PAXTON, HUGH C. (R-5)

24-15
METHOD OF CHARACTERISTICS FOR THE TRANSPORT EQUATION SOLUTION.
LASL, 1975. 30P. (LA-5952)
CARLSON, BENGT G. (T-1)

24-16
NEUTRON AND GAMMA TRANSPORT CALCULATIONS FOR SPRINT.
ABSTRACT PUBLISHED IN:
ATMOSPHERIC EFFECTS, 1973 SYMPOSIUM, SAN DIEGO, CA, ABSTRACTS OF PAPERS, P.161, DNA, 1973. (DNA-LA-19)
BROWN, WILLIAM T. (J-10)
ROACH, WILLIAM H (J-10)

24-17
ONETRAN: A DISCRETE ORDINATES FINITE ELEMENT CODE FOR THE SOLUTION OF THE ONE DIMENSIONAL MULTIGROUP TRANSPORT EQUATION.
LASL, 1975, 70P. (LA-5990-MS)
HILL, THOMAS R. (T-1)

24-18
REFLECTOR MODERATED CRITICAL ASSEMBLIES
LASL, 1975, 11P. (LA-5963)
PANTON, HUGH C (A-5)
JARVIS, GEORGE A (A-5)
BYERS, CLEO C. (A-5)

24-19
RESEARCH PROGRAM ON PLASMA CORE ASSEMBLY.
LASL, 1975, 4P. (LA-5971-MS)
BERNARD, WILLIAM (A-5)
HELMICK, HERBERT H (A-5)
JARVIS, GEORGE A. (A-5)
PLASSMANN, EUGENE A (A-5)
WHITE, ROGER B. (A-5)

24-20
TUNGSTEN CARBIDE CRITICAL ASSEMBLY.
LASL, 1975, 3P. (LA-5946-MS)
HANSEN, GORDON E. (A-5)
PANTON, HUGH C (A-5)

24-21
U.S. THEORETICAL AND COMPUTATIONAL PROGRAM: TRANSPORT THEORY.
ANL, 1973, 17P. (FRA-TM-59)
STACEY, W M., JR.
TOPPEL, B. J.
HWANG, R. N.
HENRYSON, H.
LATHROP, KAYE D. (T-1)
MYNATT, FRED R.

24-22
WALSH FUNCTION APPROXIMATION FOR NEUTRON TRANSPORT IN X-Y GEOMETRY.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21, P.227-8, 1975.
SEED, THOMAS J. (T-1)
ALBRECHT, ROBERT W.

25. NUCLEAR PHYSICS

25-1
(NEUTRON, FISSION) CROSS SECTIONS FOR EXOTIC ACTINIDES.
TIC, 1975. 5P. MN (LA-UR-75-288)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.143-4. 1975.
WILHELMY, JERRY B. (CNC-11)
BRITT, HAROLD C. (P-9)
GAVRON, AVIGDOR I. (P-9)
KONECNY, E. (P-9)
WEBER, JOSEF (CNC-11)

25-2
(PI,PI-N) PUZZLE: EFFECTS OF PION CHARGE EXCHANGE.
PHYS. REV., V.12, P.341-2. 1975.
(LA-UR-75-631)*
SILBAR, RICHARD R. (T-5)

25-3
(TRITON,PF) REACTION ON RADIUM -226.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.581. 1975.
WEBER, JOSEF (CNC-11)
BRITT, HAROLD C. (P-9)
GAVRON, AVIGDOR I. (P-9)
KONECNY, E. (P-9)
WILHELMY, JERRY B. (CNC-11)

25-4
(TRITON,PROTON) REACTION ON ARGON -36, 38, 40.
NUCL. PHYS., V.A246, P.117-40. 1975.
(LA-UR-74-1754)*
FLYNN, EDWARD R. (P-9)
HANSEN, OLE (P-9)
CASTEN, RICHARD F.
GARRETT, J. D.
AJZENBERG-SELOVE, FAY

25-5
2P-1H STATES IN LEAD -209 EXCITED BY THE METASTABLE BISMUTH -210 (TRITON, ALPHA) REACTION.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.97. 1975.
STEIN, NELSON (P-9)
BURKE, DENNIS (P-9)
FLYNN, EDWARD R. (P-9)
HANSEN, OLE (P-9)
SUNIER, JULES W. (P-9)
SHERMAN, JOSEPH (P-9)
SHELINE, RAYMOND K.

25-6
50 MEV POLARIZED NEUTRON FACILITY INCORPORATING A HIGH PRESSURE TRITIUM GAS TARGET.
NUCL. INSTRUM. METHODS, V.129, P.345-52. 1975.
SAGLE, A. L.
MC NAUGHTON, M. W.
KING, N. S. P.
BRADY, F. P.
BONNER, BILLY E. (***)

25-7
ABSOLUTE CROSS SECTIONS FOR PRODUCTION OF PROMPT NUCLEAR GAMMA RAYS BY FAST PIONS.
PHYS. REV. LETT., V.35, P.1170-1. 1975.
JACKSON, H. E.
BURMAN, ROBERT L. (***)
ET AL

25-8
ACTIVATION STUDIES OF PION INDUCED REACTIONS ON CARBON, NITROGEN, OXYGEN, FLUORINE, ALUMINUM AND COPPER.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.113. LASL. 1975. (LA-6030-C)
BUTLER, GILBERT W. (CNC-11)
DROPESKY, BRUCE J. (CNC-11)
NORRIS, ANDREW E. (CNC-11)
ORTH, CHARLES J. (CNC-11)
WILLIAMS, ROBERT A. (CNC-11)
ET AL

25-9
ANALOGS OF THE SILICON -28 COLLECTIVE M1 STATES OBSERVED IN THE SILICON -28 (TRITON,HELIUM -3) ALUMINUM -28 REACTION.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.33. 1975.
SHERMAN, JOSEPH (P-9)
FLYNN, EDWARD R. (P-9)
STEIN, NELSON (P-9)
SUNIER, JULES W. (P-9)

25-10
ANGULAR DISTRIBUTION OF POLARIZATION TRANSFER IN HYDROGEN -2(DEUTERON,PROTON) HYDROGEN -3.
NUCL. PHYS., V.A230, P.353-7. 1974.
GRUEBLER, WILLI
HARDEKOPF, ROBERT A. (P-9)
ARMSTRONG, DALE D. (P-14)
KEATON, P. W., JR. (E-DO)

25-11
ANGULAR DISTRIBUTIONS IN THE RADIATIVE CAPTURE OF 14 MEV NEUTRONS.
TIC, 1974 6P. MN (LA-UR-74-1143)
ALSO PUBLISHED IN:
NEUTRON CAPTURE GAMMA-RAY SPECTROSCOPY. 1974. 2ND INTERNATIONAL SYMPOSIUM, PETTEN, THE NETHERLANDS. PROC., P.227-31 REACTOR CENTRUM NEDERLAND, 1975. (535-N497C 1974)
DRAKE, DARRELL M. (P-3)
ARTHUR, EDWARD D. (P-3)
HALPERN, ISAAC

25-12
ANGULAR MOMENTUM EFFECTS IN THE SPECTRA OF RESIDUAL NUCLEI.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.691, 1975.
KOONIN, S. E. (T-9)
GIBBS, WILLIAM R. (T-5)
GIBSON, BENJAMIN F. (T-5)
STEPHENSON, GERARD J., JR. (T-5)

25-13
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT, OCTOBER 1 THROUGH DECEMBER 31, 1974.
LASL, 1975. 19P. (LA-5944-PR)
HALE, GERALD M. (T-2) ED.
HARRIS, DONALD R., JR. (T-2) ED.
MAC FARLANE, ROBERT E. (T-2) ED.

25-14
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, APRIL 1 - JUNE 30, 1975.
LASL, 1975. 27P. (LA-6123-PR)
MUIR, DOUGLAS W. (T-2) COMP.
YOUNG, PHILLIP G., JR. (T-2) COMP.

25-15
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, JANUARY 1 - MARCH 31, 1975.
LASL, 1975. 27P. (LA-6018-PR)
YOUNG, PHILLIP G., JR. (T-2) COMP.

25-16
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, JULY 1 - SEPTEMBER 30, 1975.
LASL, 1975. 18P. (LA-6164-PR)
BANMAN, CLAIRE I. (T-2) COMP.
YOUNG, PHILLIP G., JR. (T-2) COMP.

25-17
APPROXIMATION OF MULTI-CENTRE INTEGRALS ARISING IN PROTON - HYDROGEN CHARGE EXCHANGE CALCULATIONS.
J. PHYS. B, V.8, P.1507-12, 1975.
ANDERSON, D. G. M.
ANTAL, MICHAEL J., JR. (***)

25-18
BEAD PERTURBATION MEASUREMENT FOR THE KEK LINAC CAVITY.
NATIONAL LABORATORY FOR HIGH ENERGY PHYSICS, JAPAN, 1975. 20P. (KEK-74-15)
OKUMURA, SHOJI
SWENSON, DONALD A. (***)

25-19
BENCHMARK EXPERIMENTS FOR NUCLEAR DATA
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.170, 1975.
BOHN, E. M.
LA BAUVE, RAPHAEL J. (T-2)
ET AL

25-20
BETHE-SALPETER EQUATION FOR NUCLEON - NUCLEON SCATTERING: MATRIX PADE APPROXIMANTS. 2.
PHYS. REV., V.D11, P.963-6, 1975.
(LA-UR-74-900)*
GAMMEL, JOHN L. (T-9)
MENZEL, MARY T. (T-9)

25-21
BHABHA FIRST ORDER WAVE EQUATIONS. 2. MASS AND SPIN COMPOSITION, HAMILTONIANS, AND GENERAL SAKATA-TAKETANI REDUCTIONS.
PHYS. REV., V.D11, P.1442-58, 1975.
(LA-UR-74-1667)*
KRAJCIK, RICHARD A. (T-8)
NIETO, MICHAEL MARTIN (T-8)

25-22
BHABHA FIRST ORDER WAVE EQUATIONS. 3. POINCARE GENERATORS.
PHYS. REV., V.D11, P.1459-71, 1975.
(LA-UR-74-1668)*
KRAJCIK, RICHARD A. (T-8)
NIETO, MICHAEL MARTIN (T-8)

25-23
CALCIUM -40 (NEUTRON,ALPHA) ARGON -37 CROSS SECTION FROM 3 TO 14.7 MEV.
J. INORG. NUCL. CHEM., V.37, P.399-401, 1975.
BARNES, JOHN W. (CNC-11)
BAYHURST, BARBARA P. (CNC-11)
ERKKILA, BRUCE H. (P-12)
JARMIE, NELSON (P-DOR)
PRESTWOOD, RENE J. (CNC-11)
GILMORE, JAMES S. (CNC-11)

25-24
CALCIUM -41 (DEUTERON,TRITON) AND (DEUTERON,H) REACTIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.733, 1975.
HANSEN, OLE (P-9)
BETTS, RUSSELL R.
GAARDE, C.
LARSEN, J. S.
VAN DER WERF, S.

25-25
CHARACTERISTICS OF LOW Z FRAGMENTS PRODUCED IN THE INTERACTION OF 800 MEV PROTONS WITH URANIUM.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.220, LASL, 1975. (LA-6030-C)
BUTLER, GILBERT W. (CNC-11)
PERRY, DENNIS G. (CNC-11)
POSKANZER, A. M.
NATOWITZ, J. B.
PLASIL, F.

25-26
CHARACTERISTICS OF RADIATION DAMAGE PARAMETERS IN VARIOUS NEUTRON SPECTRA
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.351, 1975.
GOLAND, ALLEN N.
PARKIN, DON M. (CMB-8)

25-27
CHARGE ASYMMETRY EFFECTS AND THE TRINUCLEON BINDING ENERGY. 2. INCLUSION OF THE TENSOR FORCE AND SINGLET REPULSION.
PHYS. REV., V.C11, P.1448-54, 1975.
(LA-UR-74-1902)*
GIBSON, BENJAMIN F. (T-5)
STEPHENSON, GERARD J., JR. (T-5)

25-28
CHARGE INDEPENDENCE IN THE MASS 6 SYSTEM AS OBSERVED IN THE LITHIUM -6 (TRITON, HELIUM -3)HELIUM -6(0.0) AND LITHIUM -6 (TRITON,TRITON) LITHIUM -6 (3.56) REACTIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1180, 1975.
SHERMAN, JOSEPH (P-9)
BURKE, DENNIS (P-9)
FLYNN, EDWARD R. (P-9)
STEIN, NELSON (P-9)
SUNIER, JULES W. (P-9)

25-29
CHIRAL SYMMETRY AND PION CONDENSATION. 1. MODEL DEPENDENT RESULTS.
PHYS. REV., V.D12, P.979-1009, 1975.
CAMPBELL, DAVID K. (T-8)
DASHEN, ROGER F.
MANASSAH, JAMAL T.

25-30
CHIRAL SYMMETRY AND PION CONDENSATION. 2. GENERAL FORMALISM.
PHYS. REV., V.D12, P.1010-25, 1975.
CAMPBELL, DAVID K. (T-8)
DASHEN, ROGER F.
MANASSAH, JAMAL T.

25-31
CLUSTER SIZE AND THE RAPIDITY GAP LENGTH DISTRIBUTION.
PHYS. REV. LETT., V.35, P.127-8, 1975.
(LA-UR-75-481)*
LUDLAM, THOMAS
SLANSKY, RICHARD C. (T-8)

25-32
COMPARISON OF (TRITON,HELIUM -3), (HELIUM -3,TRITON) AND (HELIUM -3,PROTON) REACTIONS OF F-P SHELL NUCLEI.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.564-5, 1975.
HANSEN, OLE (P-9)
FLYNN, EDWARD R. (P-9)
SHERMAN, JOSEPH (P-9)
STEIN, NELSON (P-9)
SUNIER, JULES W. (P-9)

25-33
COMPARISON OF COPPER AND GOLD ORE RESPONSES TO NEUTRON CAPTURE AND DECAY GAMMA RAY TECHNIQUES WITH CALIFORNIUM -252.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.735, 1975.
DUFFEY, DICK
BALAGNA, JOHN P., JR. (CNC-11)
ET AL

25-34
COMPLETE FUSION CROSS SECTIONS IN HEAVY ION REACTIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.69, 1975.
SIERK, ARNOLD J. (T-9)
NIX, JAMES R. (T-9)

25-35
CONDITION FOR A VANISHING CROSS SECTION AT THETA = PI/2 IN BARSHAY-TEMMER REACTIONS.
Z. PHYS., V.A275, P.351-2, 1975.
AUSTERN, N.
FLYNN, EDWARD R. (P-9)

25-36
CONSISTENCY AMONG DIFFERENTIAL NUCLEAR DATA AND INTEGRAL OBSERVATIONS: THE ALVIN CODE FOR DATA ADJUSTMENT, FOR SENSITIVITY CALCULATIONS, AND FOR IDENTIFICATION OF INCONSISTENT DATA.
LASL, 1975, 33P. (LA-5987)
HARRIS, DONALD R., JR. (T-2)
REUPKE, WILLIAM A. (T-2)
WILSON, WILLIAM B. (T-2)

25-37
CONSTRAINTS ON WAVE FUNCTION MODELS OF THE NUCLEON - NUCLEON T MATRIX.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.667, 1975.
STEPHENSON, GERARD J., JR. (T-5)
PICKER, H. S.
REDISH, EDWARD F.

25-38
COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATION FOR THE FULLY OFF SHELL TWO NUCLEON T MATRIX.
NUCL. PHYS., V.A241, P.443-59, 1975.
(LA-UR-75-1282)*
PICKER, H. S.
STEPHENSON, GERARD J., JR. (T-5)

25-39
CROSS SECTION METHODOLOGY IN SIMMER.
LASL, 1975, 15P. (LA-6168-MS)
SORAN, PATRICK D. (TD-6)

25-40
CROSS SECTION UNCERTAINTY ANALYSIS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.794-5.
1975.
MUIR, DOUGLAS W. (T-2)
HARRIS, DONALD R., JR. (T-2)
FOSTER, DUNCAN G. (T-2)
MAC FARLANE, ROBERT E. (T-2)
REUPKE, WILLIAM A. (T-2)
WILSON, WILLIAM B. (T-2)

25-41
CROSS SECTIONS FOR (NEUTRON,X-NEUTRON) REACTIONS BETWEEN 7.5 AND 28 MEV.
PHYS. REV., V.C12, P.451-67. 1975.
(LA-UR-75-307)*
BAYHURST, BARBARA P. (CNC-11)
GILMORE, JAMES S. (CNC-11)
PRESTWOOD, RENE J. (CNC-11)
WILHELMY, JERRY B. (CNC-11)
JARMIE, NELSON (P-9)
ERKKILA, BRUCE H. (P-12)
HARDEKOPF, ROBERT A. (P-9)

25-42
CROSS SECTIONS FOR DEUTERON (PI+,2PROTON) WITH DISTORTED PROTONS.
PROGR. THEOR. PHYS., V.53, P.1199-201.
1975. (LA-UR-74-1666)*
WIENKE, BRUCE R. (T-1)

25-43
DEDUCED NEUTRON ENERGY SPECTRA ON SKYLAB.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20,
P.32. 1975.
BAUM, J. H.
BURNETT, D. S.
PEACOCK, C. L.
PERRY, DENNIS G. (***)
QUIST, T. C.

25-44
DEFORMED HARTREE-FOCK DESCRIPTION OF THE IRON, NICKEL, AND ZINC ISOTOPES.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.148. LASL, 1975. (LA-6030-C)
RINKER, GEORGE A., JR. (P-DOR)
NEGELE, JOHN W. (T-5)

25-45
DEPENDENCE OF THE OFF ENERGY SHELL T MATRIX ON THE TOTAL THREE MOMENTUM.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.62. LASL, 1975. (LA-6030-C)
HELLER, LEON (T-5)
BOHANNON, GEORGE E. (T-5)
TABAKIN, FRANK

25-46
DEPOLARIZATION OF NEGATIVE MUONS IN LIQUID HELIUM.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V 20,
P.702. 1975.
MILLER, JOHN H. (MP-3)
LEON, MELVIN (MP-3)

25-47
DEUTERON - DEUTERON TOTAL SCATTERING CROSS SECTIONS IN THE VELOCITY RANGE 950-2250 M/SEC.
J. CHEM. PHYS., V.62, P.4116-20. 1975.
DIMOPLON, GLORIA (***)
KINSEY, JAMES L.

25-48
DIFFERENTIAL CROSS SECTIONS FOR COHERENT PHOTON SCATTERING BY ELEMENTS Z=2 THROUGH Z=26.
AT. DATA NUCL. DATA TABLES, V.15,
P.111-39. 1975. (LA-UR-74-1513)*
BROWN, ROBERT T. (J-15)

25-49
DIFFERENTIAL CROSS SECTIONS FOR GAMMA RAYS FROM IRON FOR INCIDENT NEUTRONS OF 8.5, 10.0, 12.2, AND 14.2 MEV.
TIC, 1975. 4P. MN (LA-UR-75-340)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20,
P.158-9. 1975.
DRAKE, DARRELL M. (P-3)
VEESER, LYNN R. (P-3)
JENSEN, G.
DROSG, MANFRED (P-3)

25-50
E3 ISOMER OF SILVER -101.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20,
P.73. 1975.
CASELLA, VITO R. (CNC-11)
KNIGHT, JERE D. (CNC-11)
NAUMANN, ROBERT A. (CNC-11)

25-51
E3 ISOMERS OF YTTRIUM -93 AND SILVER -101.
NUCL. PHYS., V.A239, P.83-8. 1975.
(LA-UR-74-1216)*
CASELLA, VITO R. (CNC-11)
KNIGHT, JERE D. (CNC-11)
NAUMANN, ROBERT A. (CNC-11)

25-52
EFFECT OF SHORT RANGED UNITARY TRANSFORMS ON THE RATE OF THE REACTION NEGATIVE PION PLUS DEUTERON GOES TO GAMMA RAY PLUS TWO NEUTRONS.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.63. LASL, 1975. (LA-6030-C)
GIBBS, WILLIAM R. (T-5)
GIBSON, BENJAMIN F. (T-5)
STEPHENSON, GERARD J., JR. (T-5)

25-53
EFFECTIVE TWO BODY INTERACTION IN SIMPLE NUCLEAR SPECTRA.
NUCL. PHYS., V.A239, P.45-73. 1975.
MOLINARI, A.
JOHNSON, MIKKEL (MP-DO)
BETHE, HANS A.
ALBERICO, W. M.

25-54
EFFECTS OF NUCLEON CHARGE EXCHANGE ON THE PION KNOCKOUT PUZZLE.
PHYS. REV. LETT., V.34, P.824-7. 1975.
(LA-UR-75-184)*
STERNHEIM, MORTON M.
SILBAR, RICHARD R. (T-5)

25-55
EFFECTS OF PION MULTIPLE SCATTERING ON THE DISTRIBUTION OF RESIDUAL NUCLEI.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1193. 1975.
STEPHENSON, GERARD J., JR. (T-5)
GIBBS, WILLIAM R. (T-5)
GIBSON, BENJAMIN F. (T-5)
MC KOWN, THOMAS O. (T-5)
KOONIN, S. E. (T-9)

25-56
ELASTIC PION HELIUM -4 SCATTERING.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SC., SER.2, V.20, P.1193. 1975.
GIBBS, WILLIAM R. (T-5)
GIBSON, BENJAMIN F. (T-5)
HESS, ANDREW T. (T-5)
STEPHENSON, GERARD J., JR. (T-5)
KAUFMANN, WILLIAM B. (T-5)

25-57
ELASTIC SCATTERING OF 7-12 MEV TRITONS BY ALPHA PARTICLES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.596. 1975.
JARMIE, NELSON (P-9)
OHLSEN, GERALD G. (P-9)
LOVOI, PAUL A. (P-9)
ET AL

25-58
ELASTIC SCATTERING OF LOW ENERGY PIONS ON PROTONS.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.39. LASL, 1975. (LA-6030-C)
FRANK, JAMES S. (MP-4)
HEFFNER, ROBERT H. (MP-4)
KLARE, KENNETH A. (MP-4)
MISCHKE, RICHARD E. (MP-4)
NAGLE, DARRAGH E. (MP-DO)
MOIR, DAVID C.

25-59
ELASTIC SCATTERING OF POSITIVE PIONS BY CARBON AT 147 MEV.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.114. LASL. 1975. (LA-6030-C)
BORDNER, C. A.
GRAM, PETER A. M. (MP-4)
HASSENZAHL, WILLIAM V. (Q-26)
HOWARD, HILLARD H. (MP-7)
SHIVELY, FRANK T. (MP-4)
KING, T. R.
OYER, A. T.
REBKA, G. A.

25-60
ELASTICITY IN THE RESPONSE OF NUCLEI.
ANN. PHYS., V.86, P.138-46. 1974.
BERTSCH, GEORGE F. (***)

25-61
ELECTRIC FIELD GRADIENT IN CADMIUM METAL AND THE DECAY OF METASTABLE CADMIUM -115.
PHYS. LETT., V.A53, P.34-6. 1975.
(LA-UR-75-414)*
ROSENBLUM, STEPHEN S. (Q-26)
STEYERT, WILLIAM A., JR. (Q-26)

25-62
ELECTRON ELASTIC SCATTERING CROSS SECTIONS FROM 1 KEV TO 100 MEV FOR ELEMENTS Z = 1 TO 100.
LASL, 1975. 309P. (LA-5961)
ST[illegible]RM, ELLERY (H-1)
H[illegible]COCK, JOHN H. (E-4)

25-63
ENDF/B-IV FISSION PRODUCT FILES: SUMMARY OF MAJOR NUCLIDE DATA.
LASL, 1975. 39P. (ENDF-223)
(LA-6116-MS)
ENGLAND, TALMADGE R. (T-2)
SCHENTER, R. E.

25-64
ENERGY AND ANGULAR DISTRIBUTION OF NEUTRONS PRODUCED BY 800 MEV PROTON - PROTON COLLISIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.554. 1975.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.257. LASL, 1975. (LA-6030-C)
DIETERLE, BYRON D.
BRYANT, HOWARD C.
CARLINI, R.
CASSAPAKIS, CONSTANTINE G.
LEAVITT, C. P.
RUPP, T.
WOLFE, DAVID M.
BENTLEY, RICHARD F. (P-11)
PRATT, J.

25-65
ENERGY LEVELS AND LEVEL DENSITY IN NEODYMIUM -144.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS SOC., SER.2, V.20, P.624. 1975.
WELLS, J. C., JR.
RAMAN, S.
SLAUGHTER, G. G.
JURNEY, EDWARD T. (P-DO)

25-66
ENERGY LEVELS IN NEODYMIUM -144.
NEUTRON CAPTURE GAMMA-RAY SPECTROSCOPY. 1974. 2ND INTERNATIONAL SYMPOSIUM, PETTEN, THE NETHERLANDS. PROC., P.562-4. REACTOR CENTRUM NEDERLAND, 1975. (535:N497C 1974)
RAMAN, S.
SLAUGHTER, G. G.
HARVEY, J. A.
JURNEY, EDWARD T. (P-DO)
MC CLURE, D. A.
WELLS, J. C., JR.
LIN, JUNG

25-67
EQUILIBRIUM DEFORMATIONS AND EXCITATION ENERGIES FOR NONCOLLECTIVE STATES IN ODD Z RARE EARTH NUCLEI.
NUCL. PHYS., V.A245, P.376-96. 1975.
(LA-UR-74-1444)*
NIELSEN, BENT S. (P-2)
BUNKER, MERLE E. (P-2)

25-68
ERBIUM -158 TO HOLMIUM -158 DECAY SCHEME AND Q-BETA VALUE.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.625. 1975.
BUNKER, MERLE E. (P-2)
NIELSEN, BENT S. (P-2)
STARNER, JOHN W. (P-2)
DROPESKY, BRUCE J. (CNC-11)
DANIELS, WILLIAM R. (CNC-11)

25-69
ESTIMATES OF CLUSTER SIZE IN HIGH ENERGY HADRON COLLISIONS.
PHYS. REV., V.D12, P.59-64. 1975.
1975.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.650. 1975.
LUDLAM, THOMAS
SLANSKY, RICHARD C. (T-8)

25-70
EVALUATION OF GAMMA RAY PRODUCTION CROSS SECTIONS FROM NEUTRON INDUCED REACTIONS ON TUNGSTEN.
LASL, 1975. 27P. (LA-5793)
YOUNG, PHILLIP G., JR. (T-2)

25-71
EXCHANGE EFFECTS FROM WEAK RADIATIVE MESONIC TRANSITIONS IN PARITY VIOLATING NUCLEAR PROCESSES.
PHYS. REV., V.D11, P.611-9. 1975.
(LA-UR-74-1614)*
HERCZEG, PETER (T-5)
SINGER, PAUL

25-72
EXCITATION ENERGIES OF LEVELS IN ALUMINUM -27 AND SILICON -28.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.573. 1975.
MOSS, CALVIN E. (P-9)
SHERMAN, JOSEPH (P-9)

25-73
EXPANSION OF THE NUCLEON - NUCLEON SCATTERING AMPLITUDE IN EXCHANGED PARTIAL WAVES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.12. 1975.
BOHANNON, GEORGE E. (T-5)

25-74
EXPERIMENTAL EVIDENCE FOR THE EXISTENCE OF THE CHARGE EXCHANGE MODE OF GIANT RESONANCES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.81. 1975.
FLYNN, EDWARD R. (P-9)

25-75
EXPERIMENTAL SEARCH FOR CONDENSED NUCLEAR STATES.
UNIV. OF PENNSYLVANIA, 1975. 9P.
(UPR-0018E)
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.192. LASL, 1975. (LA-6030-C)
FRANKEL, S.
FRATI, W.
HIGHLAND, V.
VAN DYCK, OLIN B. (MP-7)
WERBECK, RICHARD D. (MP-7)

25-76
EXPERIMENTAL STUDY OF THE PAIRING MODE OF ELEMENTARY EXCITATIONS.
PROBLEMS OF VIBRATIONAL NUCLEI. 1974. TOPICAL CONFERENCE, ZAGREB. PROC., P.423-43. NORTH-HOLLAND, 1975. (539:P962V) (LA-UR-74-1378)*
FLYNN, EDWARD R. (P-9)

25-77
EXPERIMENTAL STUDY OF THE PI+ + DEUTERON TO PROTON + PROTON REACTION AT PION ENERGIES OF 40, 50, AND 60 MEV.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.42. LASL, 1975. (LA-6030-C)
PREEDOM, BARRY M. (MP-DO)
ALSTER, JONAS (MP-4)
BURMAN, ROBERT L. (MP-4)
ET AL

25-78
FAST NUCLEON CAPTURE AS A METHOD FOR INVESTIGATION OF GIANT QUADRUPOLE RESONANCES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.821. 1975.
DRAKE, DARRELL M. (P-3)

25-79
FAST PION INDUCED PROCESSES IN COMPLEX NUCLEI: CROSS SECTION AND ALPHA REMOVAL.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.662. 1975.
LIND, V. G.
BURMAN, ROBERT L. (MP-2)
ET AL

25-80
FISSION CROSS SECTION OF URANIUM -238 IN THE NEIGHBORHOOD OF 7 MEV.
LASL, 1949. DECLASSIFIED 1971. 18P.
(LA-755)
COX, ARTHUR N.
FOWLER, JOSEPH L.
ET AL

25-81
FOLDED DIAGRAM THEORY, TIME DEPENDENT APPROACH OF JOHNSON AND BARANGER.
NUCLEAR PHYSICS. 1975. INTERNATIONAL TOPICAL CONFERENCE, TUCSON, AZ. PROC., EFFECTIVE INTERACTION AND OPERATORS IN NUCLEI, P.25-40. SPRINGER-VERLAG, 1975. (539:N964P)
ALSO PUBLISHED AS:
TIC, 1975. 17P. MN (LA-UR-75-1119)
JOHNSON, MIKKEL (MP-DO)

25-82
FORE - AFT ANISOTROPY IN THE RADIATIVE CAPTURE OF 14 MEV NEUTRONS.
PHYS. REV. LETT., V.35, P.914-7. 1975.
(LA-UR-74-1542)*
ARTHUR, EDWARD D. (P-3)
DRAKE, DARRELL M. (P-3)
HALPERN, ISAAC

25-83
FOUNDATIONS OF THE TRIPLE CENTRE APPROXIMATION.
J. PHYS. B, V.8, P.1513-21. 1975.
ANTAL, MICHAEL J., JR. (***)
MC ELROY, M. B.
ANDERSON, D. G. M.

25-84
FOURTEEN MEV, NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS FOR SEVERAL ELEMENTS.
TIC, 1975. 5P. MN (LA-UR-75-294)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.166. 1975.
ARTHUR, EDWARD D. (P-3)
DRAKE, DARRELL M. (P-3)
SILBERT, MYRON G. (P-3)
YOUNG, PHILLIP G., JR. (T-2)

25-85
GAMMA RAY ANGULAR DISTRIBUTIONS AND PARITY TESTS IN THE DECAYS OF POLARIZED LUTETIUM -173 AND LUTETIUM -174M,G.
PHYS. REV., V.C12, P.1999-2009. 1975.
(LA-UR-75-1320)*
KRANE, KENNETH S. (P-2)
OLSEN, CLAYTON E. (CMB-8)
ROSENBLUM, STEPHEN S. (Q-26)
STEYERT, WILLIAM A., JR. (Q-26)

25-86
GAMMA(F)/GAMMA(N) FOR ACTINIDE NUCLEI.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.581. 1975.
GAVRON, AVIGDOR I. (P-9)
BRITT, HAROLD C. (P-9)
WEBER, JOSEF (CNC-11)
WILHELMY, JERRY B. (CNC-11)

25-87
GAUGE THEORY AT FINITE TEMPERATURE OF SU(3) SYMMETRY BREAKING AND QUARK MASSES.
PHYS. REV., VD12, P.1739-41. 1975.
(LA-UR-75-1146)*
ELIEZER, SHALOM (T-DO)

25-88
HADRONIC ATOMS AND TICKLISH NUCLEI: THE E2 NUCLEAR RESONANCE EFFECT.
LASL, 1975. 9P. (LA-5994-MS)
LEON, MELVIN (MP-3)

25-89
HADRONIC ATOMS AND TICKLISH NUCLEI: THE E2 NUCLEAR RESONANCE EFFECT.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.709. 1975.
LEON, MELVIN (MP-3)

25-90
HALF LIVES OF XENON -129M, XENON -131M, XENON -133M, XENON -133G, AND XENON -135G.
J. INORG. NUCL. CHEM., V.37, P.2336. 1975. (LA-UR-75-438)*
HOFFMAN, DARLEANE C. (CNC-11)
BARNES, JOHN W. (CNC-11)
DROPESKY, BRUCE J. (CNC-11)
LAWRENCE, FRANCINE O. (CNC-11)
KELLEY, GREGORY M. (CNC-11)
OTT, MARTIN A. (CNC-11)

25-91
HELIUM -3 PLUS GAMMA TO 2 PROTONS PLUS NEUTRON.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.288. LASL, 1975. (LA-6030-C)
GIBSON, BENJAMIN F. (T-5)
LEHMAN, DONALD R.

25-92
HELIUM -3(GAMMA,NEUTRON) 2 PROTON AND HELIUM -3(GAMMA,PROTON) NP REACTIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.578. 1975.
GIBSON, BENJAMIN F. (T-5)
LEHMAN, DONALD R.

25-93
HIGH ENERGY NUCLEAR REACTIONS IN OUR PLANETARY SYSTEM.
HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. PROC., P.351-63. AIP, 1975.
(539:H638E 6TH)
TURKEVICH, ANTHONY L. (MP-DO)

25-94
HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS.
LASL, 1975. 401P. (LA-6030-C)
(539:H638E 6TH A)
MISCHKE, RICHARD E. (MP-4) COMP.
HARGROVE, CLIFFORD K. (MP-4) COMP.
HOFFMAN, CYRUS M. (MP-4) COMP.

25-95
HYDROGEN -3 - HELIUM -3 BINDING ENERGY DIFFERENCE AND POSSIBLE CHARGE ASYMMETRY EFFECTS IN THE NUCLEON - NUCLEON FORCE.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.11. 1975.
GIBSON, BENJAMIN F. (T-5)
STEPHENSON, GERARD J., JR. (T-5)

25-96
IMPLICATIONS OF PARITY VIOLATING EFFECTS IN STRANGENESS CONSERVING NONLEPTONIC PROCESSES.
TIC, 1975. 11P. MN (LA-UR-75-1281)
HERCZEG, PETER (T-5)

25-97
IMPORTANCE OF THE QUADRUPOLE PAIRING FIELD IN THE J(PI)=0(+) VIBRATIONS OF SHAPE DEFORMED NUCLEI.
PHYS. LETT., V.B40, P.338-44. 1972.
BES, DANIEL R. (***)
BROGLIA, RICARDO A. (***)
NILSSON, B.

25-98
INELASTIC PROTON SCATTERING AS A TEST OF SURFACE DELTA WAVE FUNCTIONS.
PHYS. REV. LETT., V.35, P.16-9. 1975.
THROOP, M. J.
CHENG, Y. T.
MC DANIELS, DAVID K.
STUPIN, DAVID M.
SWENSON, L. W.
JARMIE, NELSON (P-9)
JETT, JAMES H. (H-10)
LOVOI, PAUL A. (P-9)
OHLSEN, GERALD G. (P-9)
SALZMAN, GARY C. (H-10)

25-99
INELASTIC SCATTERING CROSS SECTIONS OF LEAD AND URANIUM FOR 14 MEV NEUTRONS.
LASL, 1947. DECLASSIFIED 1971. 20P.
(LAMS-663)
GITTINGS, HOMER T.

25-100
INTEGRAL RELATION FOR THE ASYMPTOTIC NORMALIZATION OF THE TRITON.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1183. 1975.
LEHMAN, DONALD R.
GIBSON, BENJAMIN F. (T-5)

25-101
KILOVOLT SULFUR -33 (NEUTRON,ALPHA-0) AND SULFUR -33 (NEUTRON,GAMMA) CROSS SECTIONS: IMPORTANCE IN THE NUCLEOSYNTHESIS OF THE RARE NUCLEUS SULFUR -36.
PHYS. REV., V.C12, P.1126-33. 1975.
(LA-UR-75-494)*
AUCHAMPAUGH, GEORGE F. (P-3)
HALPERIN, J.
MACKLIN, R. L.
HOWARD, WILLIAM M.

25-102
LIFETIMES OF NEGATIVE PARITY STATES OF SCANDIUM -49 BY THE CALCIUM -48(PROTON, GAMMA)SCANDIUM -49 REACTION.
PHYS. REV., V.C7, P.1418-24. 1973.
STRUVE, HORTON
THOMAS, HENRY C.
BENNETT, MICHAEL J. (P-2)
ARMSTRONG, DALE D. (P-14)

25-103
LIMIT ON PARITY NONCONSERVATION IN P-NUCLEUS SCATTERING AT 6 GEV/C.
PHYS. REV. LETT., V.34, P.1184-6. 1975. (LA-UR-75-405)*
BOWMAN, J. DAVID (MP-4)
HOFFMAN, CYRUS M. (MP-4)
ET AL

25-104
LOS ALAMOS HANDBOOK OF NUCLEAR PHYSICS.
LASL, 1944. DECLASSIFIED 1972. 83P.
(LA-140)
BRETSCHER, EGON

25-105
LOW ENERGY PION - NUCLEON AND PION - DEUTERON INTERACTIONS.
TIC, 1975. 12P. MN (LA-UR-75-1274)
ALSO PUBLISHED IN:
HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. PROC., P.41-54. AIP, 1975.
(539:H638E 6TH)
BURMAN, ROBERT L. (MP-4)

25-106
LOW LYING LEVELS OF FIVE NUCLEON SYSTEMS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.821. 1975.
DODDER, DONALD C. (T-9)

25-107
MACROSCOPIC AND MICROSCOPIC APPROACHES TO NUCLEAR DISSIPATION.
TIC, 1975. 15P. MN (LA-UR-75-5)
NIX, JAMES R. (T-9)
DAVIES, K. T. R. (T-9)
KOONIN, S. E. (T-9)
SIERK, ARNOLD J. (T-9)

25-108
MAGNETIC MOMENT OF NICKEL -57.
PHYS. LETT., V.B55, P.450-2. 1975.
(LA-UR-74-1806)*
ROSENBLUM, STEPHEN S. (Q-26)
STEYERT, WILLIAM A., JR. (Q-26)

25-109
MASS NUMBER DEPENDENCE OF THE PION - NUCLEUS SCATTERING LENGTHS.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.65. LASL, 1975. (LA-6030-C)
GIBSON, BENJAMIN F. (T-5)
SCOTT, C. KEITH (T-5)

25-110
MAYBE THE QUARK-PARTON MODEL CAN SURVIVE ELECTRON POSITRON ANNIHILATION.
PHYS. LETT., V.B55, P.195-200. 1975.
(LA-UR-74-1764)*
WEST, GEOFFREY B. (T-8)

25-111
MEASUREMENT AND INTERPRETATION OF GAMMA(N)/GAMMA(F) FOR ACTINIDE NUCLEI.
PHYS. REV. LETT., V.34, P.827-30. 1975. (LA-UR-75-161)*
GAVRON, AVIGDOR I. (P-9)
BRITT, HAROLD C. (P-9)
KONECNY, E. (P-9)
WEBER, JOSEF (CNC-11)
WILHELMY, JERRY B. (CNC-11)

25-112
MEASUREMENT OF (NEUTRON,2NEUTRON) AND (NEUTRON,3NEUTRON) CROSS SECTIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1196. 1975.
VEESER, LYNN R. (P-3)
ARTHUR, EDWARD D. (T-2)

25-113
MEASUREMENT OF THE CROSS SECTION FOR THE REACTION PI(-) + PROTON TO PI(+) + NEUTRON AT 350 AND 300 MEV.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.43. LASL, 1975. (LA-6030-C)
BORDNER, C. A.
GRAM, PETER A. M. (MP-4)
HASSENZAHL, WILLIAM V. (Q-26)
HOWARD, HILLARD H. (MP-7)
KING, T. R.
OYER, A. T.
REBKA, G. A.
SHIVELY, FRANK T. (MP-4)

25-114
MEASUREMENT OF THE ENERGY OF THE 6129 KEV GAMMA RAY OF OXYGEN -16.
PHYS. REV., V.C12, P.1003-5. 1975.
(LA-UR-75-1059)*
SHERA, E. BROOKS (P-2)

25-115
MEASUREMENT, ANALYSIS, AND IMPLICATIONS OF THE FISSION CROSS SECTIONS OF THE IMPORTANT FISSIONABLE ISOTOPES.
TIC, 1975. 18P. MN (LA-UR-75-360)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.140. 1975.
MOORE, MICHAEL S. (P-11)

25-116
MECHANISM OF HEAVY ION REACTIONS AND THE PRODUCTION OF SUPERHEAVY NUCLEI.
TIC, 1975. 11P. MN (LA-UR-75-1643)
NIX, JAMES R. (T-9)
SIERK, ARNOLD J. (T-9)

25-117
MESON EXCHANGE CURRENTS IN NEUTRON - PROTON BREMSSTRAHLUNG.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1194. 1975.
BOHANNON, GEORGE E. (T-5)
HELLER, LEON (T-5)
THOMPSON, RICHARD H. (T-5)

25-118
MICROSCOPIC THEORY OF NUCLEAR DISSIPATION.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.1018. 1974.
KERMAN, ARTHUR K.
KOONIN, S. E. (T-9)

25-119
MODEL OF THE PROTON PLUS PROTON GOES TO PROTON PLUS NEUTRON PLUS POSITIVE PION REACTION AT 766 MEV.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.254. LASL, 1975. (LA-6030-C)
GIBBS, WILLIAM R. (T-5)
GIBSON, BENJAMIN F. (T-5)
STEPHENSON, GERARD J., JR. (T-5)

25-120
MODELS BASED ON MULTICHANNEL R-MATRIX THEORY FOR EVALUATING LIGHT ELEMENT REACTIONS.
TIC, 1974. 41P. MN (LA-UR-74-738)
ALSO PUBLISHED IN:
CRITIQUE OF NUCLEAR MODELS AND THEIR VALIDITY IN THE EVALUATION OF NUCLEAR DATA. 1974. EANDC TOPICAL DISCUSSION, TOKYO. PROC., P.1-30. JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, 1975. (JAERI-M-5984)
DODDER, DONALD C. (T-9)
HALE, GERALD M. (T-2)
NISLEY, RICHARD A. (T-2)
WITTE, KATHLEEN H. (C-3)
YOUNG, PHILLIP G., JR. (T-2)

25-121
MONTE CARLO STUDIES OF TARGET/MODERATOR CONFIGURATIONS FOR THE WEAPONS NEUTRON RESEARCH FACILITY.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.715-6, 1975.
RUSSELL, GARY J. (P-11)
SEEGER, PHILIP A. (P-11)
FLUHARTY, REX G. (P-11)

25-122
MORE 14 MEV. NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS.
LASL, 1975. 9P. (LA-5983-MS)
DRAKE, DARRELL M. (P-3)
ARTHUR, EDWARD D. (T-2)
SILBERT, MYRON G. (P-3)

25-123
MULTIPLE EXCHANGE AND HIGH ENERGY FIXED ANGLE SCATTERING.
PHYS. REV. V.D11, P.150-5. 1975.
(LA-UR-74-1450)*
FISHBANE, PAUL M.
SIMMONS, LEONARD M. (T-DO)

25-124
MUON LIFETIME MEASUREMENTS IN THE ACTINIDE ELEMENTS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.702. 1975.
HENSLEY, W. K.
PERRY, DENNIS G. (CNC-11)
ET AL

25-125
MUONIC ISOTOPE SHIFTS IN THE EVEN IRON NUCLEI.
PHYS. REV. LETT., V.34, P.535-8. 1975.
(LA-UR-74-1914)*
SHERA, E. BROOKS
RITTER, ENLOE T. (P-2)
RINKER, GEORGE A., JR. (P-DOR)
SHERA, E. BROOKS (P-2)

25-126
MUONIC X RAY MEASUREMENTS OF NUCLEAR CHARGE RADII IN THE MASS 60 REGION.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.147. LASL, 1975. (LA-6030-C)
SHERA, E. BROOKS (P-2)
PERKINS, ROGER B. (P-DO)
RITTER, ENLOE T. (P-2)
WAGNER, L. K.
WOHLFAHRT, HANS D.
FRICKE, GERHARD
STEFFEN, ROLF M. (P-DOR)

25-127
MUONIC X RAYS FROM THE TRANSITION NUCLEI PLATINUM -194, 195, 196.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.701. 1975.
DAVIDSON, J. P. (P-DOR)
SHERA, E. BROOKS (P-2)
WAGNER, L. K.
STEFFEN, ROLF M. (P-DOR)

25-128
NEUTRON - PROTON BREMSSTRAHLUNG.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.243. LASL, 1975. (LA-6030-C)
HELLER, LEON (T-5)
BOHANNON, GEORGE E. (T-5)
THOMPSON, RICHARD H. (T-5)

25-129
NEUTRON ENERGY AND VELOCITY DISTRIBUTIONS FROM THERMAL DEUTERIUM - TRITIUM REACTIONS.
LASL, 1975. 4P. (LA-5836-MS)
MARSHALL, DON A. (TD-3)

25-130
NEUTRON FISSION CROSS SECTION OF CALIFORNIUM -249.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.596. 1974.
DABBS, J. W. T.
BEMIS, C. E.
JAMES, G. D.
MOORE, MICHAEL S. (W-11)
ELLIS, ALBERT N. (P-3)

25-131
NEUTRON KNOCKOUT BY PIONS ON NITROGEN -14, OXYGEN -16, AND FLUORINE -19.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.663. 1975.
JACOB, N. P.
MARKOWITZ, S. S.
SILBAR, RICHARD R. (T-5)
STERNHEIM, MORTON M.

25-132
NEUTRON PRODUCTION AT 0 DEGREES FROM THE REACTION PROTON - PROTON TO NEUTRON - PROTON - PI(+) AT THE MEDIUM ENERGIES.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.249. LASL, 1975. (LA-6030-C)
GLASS, G.
EVANS, M. L.
JAIN, MAHAVIR
NORTHCLIFFE, LEE CONRAD
KENEFICK, R. A.
CASSAPAKIS, CONSTANTINE G.
BJORK, C. W. (P-DOR)
RILEY, P. J.
BONNER, BILLY E. (P-DOR)
SIMMONS, JAMES E. (P-DOR)

25-133
NEUTRON PROPERTIES OF TAMPER MATERIALS. 2.
LASL, 1944. DECLASSIFIED 1971. 19P. (LA-57)
BARSCHALL, HENRY H.
COON, JAMES H.

25-134
NEUTRON SPECTRA FROM PROTON BOMBARDMENT OF DEUTERIUM AT 647 AND 800 MEV.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.663. 1975.
BJORK, C. W. (P-DOR)
RILEY, P. J.
BONNER, BILLY E. (P-DOR)
ET AL

25-135
NEUTRON SPECTRUM FROM AN ENRICHED URANIUM -235 SPHERE.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.716-7. 1975.
RAGAN, CHARLES E. (P-3)
AUCHAMPAUGH, GEORGE F. (P-3)
SILBERT, MYRON G. (P-3)
HEMMENDINGER, ARTHUR (P-3)
HUNTER, RAYMOND E. (TD-2)
TAYLOR, WILLIAM M. (TD-6)

25-136
NEUTRON SPECTRUM FROM AN ORALLOY SPHERE.
LASL, 1975. 15P. (LA-5949-MS)
RAGAN, CHARLES E. (P-3)
AUCHAMPAUGH, GEORGE F. (P-3)
HEMMENDINGER, ARTHUR (P-3)
SILBERT, MYRON G. (P-3)

25-137
NEW HIGH PRECISION MEASUREMENT OF THE MUONIUM HYPERFINE STRUCTURE INTERVAL DELTA NU.
PHYS. LETT., V.B59, P.397-400. 1975.
CASPERSON, D. E.
THOMPSON, PATRICK A. (MP-10)
ET AL

25-138
NJOY: A NEUTRON AND PHOTON CROSS SECTION PROCESSING SYSTEM.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.720. 1975.
MAC FARLANE, ROBERT E. (T-2)
BOICOURT, ROSEMARY M. (T-2)

25-139
NON-EIKONAL APPROACH TO THE SCATTERING OF HADRONS FROM NUCLEI. 2. PROTON AND PION SCATTERING FROM DEUTERIUM, HELIUM -3 AND HELIUM -4.
WEIZMANN INSTITUTE OF SCIENCE, 1975. 54P. (WIS-75/19 PH)
GURVITS, S. A.
ALEXANDER, Y.
RINAT, AVRAHAM S. (T-5)

25-140
NUCLEAR CHARGE DISTRIBUTIONS IN THE MASS 60 REGION: NEW EVIDENCE FROM MUONIC ISOTOPE SHIFT MEASUREMENTS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.708. 1975.
PERKINS, ROGER B. (P-DO)

25-141
NUCLEAR CHARGE PARAMETERS FOR THE ODD-A ACTINIDES URANIUM -235 AND PLUTONIUM -239.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.701. 1975.
CLOSE, DONALD A. (A-1)
DAVIDSON, JOHN P. (A-1)
MALANIFY, JOHN J. (A-1)

25-142
NUCLEAR DATA FOR CALCULATION OF RADIOACTIVITY EFFECTS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21, P.517-8. 1975.
SCHENTER, R. E.
ENGLAND, TALMADGE R. (T-2)

25-143
NUCLEAR HYDRODYNAMICS.
NUCL. PHYS., V.A249, P.253-68. 1975.
BERTSCH, GEORGE F. (T-9)

25-144
NUCLEAR MATTER THEORY FOR PION SCATTERING FROM NUCLEI.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.51. LASL, 1975. (LA-6030-C)
BETHE, HANS A. (T-DO)
JOHNSON, MIKKEL (MP-DO)

25-145
NUCLEAR MODELS AND DATA FOR GAMMA RAY PRODUCTION.
TIC, 1975. 8P. MN (LA-UR-75-317)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.140. 1975.
YOUNG, PHILLIP G., JR. (T-2)

25-146
NUCLEAR ORIENTATION STUDY OF THE DECAY OF METASTABLE LUTETIUM -177.
PHYS. REV., V.C10, P.825-37. 1974.
KRANE, KENNETH S.
OLSEN, CLAYTON E. (J-5)
STEYERT, WILLIAM A., JR. (Q-26)

25-147
NUCLEAR STRUCTURE STUDIES IN HEAVY DEFORMED NUCLEI USING MUONIC ATOMS.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.143. LASL, 1975. (LA-6030-C)
CLOSE, DONALD A. (A-1)
MALANIFY, JOHN J. (A-1)
DAVIDSON, JOHN P. (P-DOR)

25-148
OBSERVATION OF THE RECOIL PROTON IN QUASIELASTIC PION SCATTERING.
PHYS. REV., V.C12, P.1089-92. 1975.
(LA-UR-75-874)*
SILBAR, RICHARD R. (T-5)
STUPIN, DAVID M.

25-149
ON-LINE INTERNAL CONVERSION COEFFICIENTS FOR THE DECAYS OF MASS SEPARATED KRYPTON -91 AND RUBIDIUM -91.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.1002. 1974.
WOHN, F. K.
TALBERT, W. L., JR.
WEINBECK, R. S.
GLASCOCK, M. D.
HALBIG, JAMES K. (MP-9)

25-150
OPTICAL MODEL POTENTIALS FOR DEUTERONS, TRITONS AND HELIONS.
TIC, 1975. 16P. MN (LA-UR-75-1575)
KEATON, P. W., JR. (E-DO)

25-151
PARAMETERS OF THE SUBTHRESHOLD FISSION STRUCTURE IN PLUTONIUM -240.
TIC, 1975. 7P. MN (LA-UR-75-319)
AUCHAMPAUGH, GEORGE F. (P-3)
WESTON, LAWRENCE W

25-152
PARAMETERS OF THE SUBTHRESHOLD FISSION STRUCTURE IN PLUTONIUM -240.
PHYS. REV., V.C12, P.1850-7. 1975.
(LA-UR-75-1318)*
AUCHAMPAUGH, GEORGE F. (P-3)
WESTON, LAWRENCE W.

25-153
PARITY NONCONSERVATION IN PROTON - PROTON AND PROTON - NUCLEUS SCATTERING.
TIC, 1975. 14P. MN (LA-UR-75-836)
ALSO PUBLISHED IN:
INTERACTION STUDIES IN NUCLEI 1975. CONFERENCE, MAINZ. PROC., P.45-57. NORTH-HOLLAND, 1975.** (LA-UR-75-224)*
BOWMAN, J. DAVID (MP-4)

25-154
PARITY NONCONSERVATION IN TWO NUCLEON SYSTEMS.
TIC, 1975. 8P. MN (LA-UR-75-1265)
ALSO PUBLISHED IN:
HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. PROC., P.497-503. AIP, 1975. (539:H638E 6TH)
NAGLE, DARRAGH E. (MP-DO)

25-155
PARITY VIOLATING ASYMMETRY IN NEUTRON PHOTO CAPTURE BY PROTONS AND THE ISOSPIN STRUCTURE OF THE STRANGENESS CONSERVING NONLEPTONIC WEAK INTERACTIONS.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.312. LASL, 1975. (LA-6030-C)
CRAVER, BRUCE A.
KIM, YEONG E. (T-5)
HERCZEG, PETER (T-5)
SINGER, PAUL
TUBIS, ARNOLD

25-156
PARITY VIOLATION IN P-P AND P-BE REACTIONS.
TIC, 1975. 8P. MN (LA-UR-75-1278)
NAGLE, DARRAGH E. (MP-DO)

25-157
PERFORMANCE OF THE LASL Q3D SPECTROMETER AND HELIX DETECTOR SYSTEM.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.40-1. 1975.
FLYNN, EDWARD R. (P-9)
ORBESEN, STUART D. (P-9)
SHERMAN, JOSEPH (P-9)
STEIN, NELSON (P-9)
SUNIER, JULES W. (P-9)
WOODS, RICHARD (P-9)

25-158
PERTURBATION THEORY OF EFFECTIVE HAMILTONIANS.
TIC, 1975. 22P. MN (LA-UR-75-1305)
ALSO PUBLISHED IN:
NUCLEAR PHYSICS. 1975. INTERNATIONAL TOPICAL CONFERENCE, TUCSON, AZ. PROC., EFFECTIVE INTERACTION AND OPERATORS IN NUCLEI. P.1-21. SPRINGER-VERLAG, 1975. (539:N964P)
BRANDOW, BAIRD H. (T-9)

25-159
PHONEX, A COMPUTER PROGRAM TO CALCULATE PHOTONEUTRON SPECTRA.
LASL, 1975. 17P. (LA-5860-MS)
STAMATELATOS, MICHAEL G. (T-2)

25-160
PHOTOFISSION AND PHOTONEUTRON REACTIONS IN URANIUM -235.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.582. 1975.
BERMAN, BARRY L.
CALDWELL, JOHN T. (A-2)
ET AL

25-161
PHOTOFISSION AND PHOTONEUTRON REACTIONS IN URANIUM -236.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.582. 1975.
ALVAREZ, RAYMOND A.
CALDWELL, JOHN T. (A-2)
ET AL

25-162
PHOTOIONIZATION CROSS SECTIONS AND RADIATIVE RECOMBINATION RATE COEFFICIENTS FOR IRON(XV-XXV).
NUCL. FUSION, V.15, P.1192-4. 1975.
(LA-UR-75-278)*
BARFIELD, W. DAVID (T-4)

25-163
PHOTOIONIZATION CROSS SECTIONS AND RADIATIVE RECOMBINATION RATE COEFFICIENTS FOR POSITIVE IONS OF CARBON AND GOLD.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1511. 1975.
BARFIELD, W. DAVID (T-4)

25-164
PHOTON PROPAGATION IN NUCLEAR MATTER AND THE CORRECTION TO THE THEORETICAL NUCLEAR CHARGE DENSITY.
PHYS. REV., V.C12, P.1346-53. 1975.
(LA-UR-74-1606)*
TANABE, KOSAI (MP-DO)

25-165
PHOTON SPECTRUM IN PION CAPTURE ON TRITIUM.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.180. LASL, 1975. (LA-6030-C)
BAER, H. W.
BISTIRLICH, J. A.
COOPER, S.
CROWE, K. M.
PERROUD, J. P.
SHERMAN, ROBERT H. (Q-26)
SHIVELY, FRANK T. (MP-4)
TRUOL, P.

25-166
PI (PLUS AND MINUS) - HELIUM -4 TOTAL CROSS SECTIONS FROM 50-100 MEV.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.663. 1975.
COOPER, MARTIN D. (MP-4)
HAGERMAN, DONALD C. (MP-DO)
MEYER, HANS O. (MP-3)
ET AL

25-167
PION CHARGE EXCHANGE ON TRITIUM.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1193. 1975.
HESS, ANDREW T. (T-5)
GIBSON, BENJAMIN F. (T-5)

25-168
PION CHARGE EXCHANGE REACTIONS WITH NUCLEI.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.48. LASL, 1975. (LA-6030-C)
MILLER, GERALD A. (T-5)
SPENCER, JAMES E. (MP-10)

25-169
PION CHARGE EXCHANGE SCATTERING FROM LIGHT NUCLEI.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.64. LASL, 1975. (LA-6030-C)
GIBBS, WILLIAM R. (T-5)
GIBSON, BENJAMIN F. (T-5)
HESS, ANDREW T. (T-5)
STEPHENSON, GERARD J., JR. (T-5)
KAUFMANN, WILLIAM B. (T-5)

25-170
PION CHARGE EXCHANGE SCATTERING FROM LITHIUM -7, BORON -10, AND CARBON -13.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1193. 1975.
GIBSON, BENJAMIN F (T-5)
GIBBS, WILLIAM R. (T-5)
HESS, ANDREW T. (T-5)
STEPHENSON, GERARD J., JR. (T-5)
KAUFMANN, WILLIAM B. (T-5)

25-171
PION PRODUCTION FROM A CLASSICAL SOURCE: TRANSPORT AND HYDRODYNAMICAL PROPERTIES.
PHYS. REV., V.D12, P.1123-31. 1975.
(LA-UR-75-652)*
COOPER, FREDERICK M. (T-DOT)
SHARP, DAVID H. (T-8)

25-172
PION PRODUCTION IN NUCLEON - NUCLEON COLLISIONS.
TIC, 1975. 7P. MN (LA-UR-75-1244)
ALSO PUBLISHED IN:
HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. PROC., P.55-62. AIP, 1975.
(539:H638E 6TH)
STEPHENSON, GERARD J., JR. (T-5)

25-173
PION SCATTERING FROM LIGHT NUCLEI.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.1170-1. 1975.
GIBBS, WILLIAM R. (T-5)

25-174
POINCARE GENERATORS AND FW TRANSFORMATIONS FOR BHABHA FIRST ORDER FIELDS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.71. 1975.
KRAJCIK, RICHARD A. (T-8)
NIETO, MICHAEL MARTIN (T-8)

25-175
POLARIZATION MEASUREMENTS AND OPTICAL MODEL POTENTIAL FOR TRITONS.
PHYS. REV. LETT., V.35, P.1623-5. 1975. (LA-UR-75-1631)*
HARDEKOPF, ROBERT A. (P-9)
VEESER, LYNN R. (P-3)
KEATON, P. W., JR. (E-DO)

25-176
POLARIZATION PROGRAM AT LASL.
HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. PROC., P.504-14. AIP, 1975. (539:H638E 6TH)
OHLSEN, GERALD G. (P-9)

25-177
POTENTIAL WELL SHAPES FOR TENSOR TERMS INVOLVING SPIN.
LASL, 1975. 5P. (LA-6002)
KEATON, P. W., JR. (E-DO)

25-178
PRECISION MEASUREMENT OF 1S(1/2) MUONIUM HYPERFINE STRUCTURE INTERVAL DELTA NU. 2. RESULTS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.702. 1975.
CASPERSON, D. E.
THOMPSON, PATRICK A. (MP-10)
ET AL

25-179
PRODUCTION OF FLUORINE -18 USING ENERGETIC NEUTRONS FROM LAMPF BEAM STOP.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.170, PAPER NO.NUCL-12. 1975.
IYER, R. S.
SMITH, W. S.
ROWLAND, F. S.
GRANT, PATRICK M. (CNC-11)

25-180
PROPRIETARY, STANDARD, AND GOVERNMENT SUPPORTED NUCLEAR DATA BASES.
LASL, 1975. 23P. (LA-6023-MS)
PONCELET, C. G.
OZER, ODELLI
HARRIS, DONALD R., JR. (T-2)

25-181
PROTON - NUCLEUS SCATTERING AT INTERMEDIATE ENERGIES.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.225. LASL, 1975. (LA-6030-C)
MILLER, GERALD A. (T-5)
SPENCER, JAMES E. (MP-10)

25-182
PROTON - PROTON ANALYZING POWER MEASUREMENTS AT 16 MEV.
LASL, 1975. 100P. (LA-6041-T)
LOVOI, PAUL A. (P-DOR)

25-183
PROTON - PROTON ASYMMETRY MEASUREMENTS AT 16,000 MEV.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.85. 1975.
LOVOI, PAUL A. (P-9)
JARMIE, NELSON (P-9)
OHLSEN, GERALD G. (P-9)
MOSS, CALVIN E. (P-9)

25-184
PROTON - PROTON SCATTERING, THE CHOU-YANG MODEL, AND PROTON FORM FACTORS.
PHYS. REV., V.D11, P.1837-40. 1975. (LA-UR-74-1974)*
FRANCO, VICTOR (T-5)

25-185
PROTON PICKUP FROM STRONTIUM -86 AND THE RUBIDIUM -85 LEVEL STRUCTURE.
PHYS. REV., V.C8, P.988-95. 1973.
RAGAINI, RICHARD C.
KNIGHT, JERE D. (CNC-11)
LELAND, WALLACE T. (L-1)

25-186
Q3D SPECTROMETER WITH A HELIX DETECTOR SYSTEM.
NUCL. INSTRUM. METHODS, V.128, P.35-47. 1975. (LA-UR-75-902)*
FLYNN, EDWARD R. (P-9)
ORBESEN, STUART D. (P-9)
SHERMAN, JOSEPH (P-9)
SUNIER, JULES W. (P-9)

25-187
QUANTITATIVE ASSESSMENT OF CTR CROSS SECTION NEEDS.
TIC, 1975. 5P. MN (LA-UR-75-341)
ALSO PUBLISHED AS:
TIC, 1975. 13P. MN (LA-UR-75-582)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.163. 1975.
GERSTL, S. A. W. (T-1)
DUDZIAK, DONALD J. (T-1)
MUIR, DOUGLAS W. (T-2)

25-188
QUANTITATIVE BASIS FOR CROSS SECTION REQUIREMENTS FOR A FUSION TEST REACTOR.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21, P.68-9. 1975.
GERSTL, S. A. W. (T-1)
DUDZIAK, DONALD J. (T-1)
MUIR, DOUGLAS W. (T-2)

25-189
QUASI-ELASTIC PION SCATTERING IN THE (3,3) RESONANCE REGION.
PHYS. REV., V.C11, P.1610-21. 1975.
(LA-UR-74-1785)*
SILBAR, RICHARD R. (T-5)

25-190
QUASIFREE PION PRODUCTION AS SEEN IN NEUTRON - DEUTERON REACTIONS WITH A FINAL FAST DEUTERON.
ABSTRACT PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS, P.256. LASL, 1975. (LA-6030-C)
SILBAR, RICHARD R. (T-5)

25-191
R-MATRIX ANALYSIS OF THE LIGHT ELEMENT STANDARDS.
TIC, 1975. 8P. MN (LA-UR-75-344)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.148. 1975.
HALE, GERALD M. (T-2)

25-192
RADIATIVE CAPTURE GAMMA RAYS FROM THE REACTION LEAD -208 (NEUTRON,GAMMA) LEAD -209 FOR 11 MEV INCIDENT NEUTRONS.
TIC, 1975. 4P. MN (LA-UR-75-326)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.173. 1975.
DRAKE, DARRELL M. (P-3)
ARTHUR, EDWARD D. (P-3)
MC DANIELS, DAVID K.
BERGQVIST, INGVAR L.

25-193
RADIOCHEMICAL INVESTIGATION OF REACTIONS OF ARGON -40 AND KRYPTON -84 IONS WITH URANIUM -238 TARGETS.
ABSTRACT PUBLISHED IN:
REACTIONS BETWEEN COMPLEX NUCLEI. 1974. INTERNATIONAL CONFERENCE, NASHVILLE, TN. PROC., V.1, P.88, NORTH-HOLLAND, 1974. (539:C748R 7TH V.1)
KRATZ, J. V.
LILJENZIN, J. O.
NORRIS, ANDREW E. (CNC-11)
BINDER, I.
SEABORG, GLENN T.

25-194
RADIOCHEMICAL STUDIES OF SOME LOW AND MEDIUM ENERGY NUCLEAR REACTIONS PRODUCED BY ACCELERATED TRITONS, DEUTERONS, AND PROTONS.
LASL, 1975. 141P. (LA-5830-T)
CASELLA, VITO R. (CNC-11)

25-195
RELATIVISTIC HYDRODYNAMIC THEORY OF HEAVY ION COLLISIONS.
PHYS. REV. LETT., V.35, P.905-8. 1975.
(LA-UR-75-1068)*
AMSDEN, ANTHONY A. (T-3)
BERTSCH, GEORGE F. (T-9)
HARLOW, FRANCIS H., JR. (T-3)
NIX, JAMES R. (T-9)

25-196
RELATIVISTIC SECOND ORDER ENERGY FUNCTIONAL FOR FINITE FERMION SYSTEMS.
PHYS. REV., V.D11, P.784-9. 1975.
(LA-UR-74-1436)*
BOLSTERLI, MARK (T-9)

25-197
RELATIVISTIC SECOND ORDER ENERGY IN INFINITE FERMION MATTER.
PHYS. REV., V.D11, P.312-7. 1975.
(LA-UR-74-1376)*
BOLSTERLI, MARK (T-9)

25-198
ROLE OF TWO NUCLEON SHORT RANGE CORRELATIONS IN PION CHARGE EXCHANGE REACTIONS WITH NUCLEI.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.575-6. 1974.
MILLER, GERALD A. (T-5)
SPENCER, JAMES E. (MP-10)

25-199
SCALAR BINDING OF QUARKS.
PHYS. REV., V.D12, P.923-5. 1975.
(LA-UR-75-459)*
CRITCHFIELD, CHARLES L. (T-9)

25-200
SEARCH FOR ALPHA DECAY IN NATURAL OSMIUM -186.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.166, PAPER NO.NUCL-1, 1973.
VIOLA, VICTOR E., JR.
ROCHE, CHARLES T.
MINOR, MICHAEL (P-2)

25-201
SELF SHIELDED CROSS SECTIONS FOR NEUTRON TRANSPORT IN IRON.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.668-9. 1975.
MAC FARLANE, ROBERT E. (T-2)
BECKER, MARTIN

25-202
SELF SHIELDING OF ELASTIC TRANSFER MATRICES.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21, P.495-6. 1975.
MAC FARLANE, ROBERT E. (T-2)
BECKER, MARTIN

25-203
SEMICLASSICAL MODEL FOR PION PRODUCTION BY NEUTRONS ON NUCLEI.
PHYS. REV., V.C10, P.2215-20. 1974.
SPARROW, D. A.
STERNHEIM, MORTON M.
SILBAR, RICHARD R. (T-5)

25-204
SEPARABLE SOLUTIONS FOR DIRECTLY INTERACTING PARTICLE SYSTEMS.
PHYS. REV., V.D12, P.1700-16. 1975.
(LA-UR-74-1922)*
KRAJCIK, RICHARD A. (T-8)
FOLDY, L. L.

25-205
SIMPLE OPTICAL MODEL FOR PION - NUCLEUS SCATTERING.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.171. 1973.
STERNHEIM, MORTON M.
SILBAR, RICHARD R. (T-5)

25-206
SOME TOPICS CONCERNING NEUTRON - NEUTRON AND NEUTRON - DEUTERON EXPERIMENTS AT MEDIUM ENERGY.
TIC, 1975. 24P. MN (LA-UR-75-1284)
ALSO PUBLISHED IN:
HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE. SANTA FE AND LOS ALAMOS, NM. PROC., P.103-27. AIP, 1975.
(539:H638E 6TH)
SIMMONS, JAMES E. (P-DOR)

25-207
SPALLATION OF COPPER BY 190 MEV PIONS AND 349 MEV PROTONS.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.170, PAPER NO.NUCL-18. 1975.
HUDIS, JEROME
HARP, GEORGE D.
DROPESKY, BRUCE J. (CNC-11)
NORRIS, ANDREW E. (CNC-11)
ORTH, CHARLES J. (CNC-11)
WILLIAMS, ROBERT A. (CNC-11)

25-208
SPECTRUM AND SHIELDING MEASUREMENTS AND CALCULATIONS OF NEUTRONS PRODUCED BY 800 MEV PROTONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.155. 1975.
VEESER, LYNN R. (P-3)
RUSSELL, GARY J. (P-11)
ARTHUR, EDWARD D. (P-3)
SEEGER, PHILIP A. (P-11)
SOMMER, WALTER F. (P-11)
DRAKE, DARRELL M. (P-3)
FLUHARTY, REX G. (P-11)

25-209
SPIN DETERMINATION OF RESONANCES IN URANIUM -235.
TIC, 1975. 5P. MN (LA-UR-75-323)
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC , SER.2, V.20, P.159. 1975.
KEYWORTH, GEORGE A. (P-3)
OLSEN, CLAYTON E. (CMB-8)
MOSES, JOHN D. (P-3)
DABBS, J. W. T.
HILL, N. W.

25-210
STATICS AND DYNAMICS OF HEAVY ION COLLISIONS.
ABSTRACT PUBLISHED IN:
REACTIONS BETWEEN COMPLEX NUCLEI. 1974. INTERNATIONAL CONFERENCE, NASHVILLE, TN. PROC. V.1, P.119. NORTH-HOLLAND, 1974. (539:C748R 7TH V.1)
SIERK, ARNOLD J. (T-9)
NIX, JAMES R. (T-9)

25-211
STUDY OF THE (TRITON,PROTON) REACTIONS ON HELIUM -4, LITHIUM -6, LITHIUM -7 AND BERYLLIUM -9.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.596. 1975.
AJZENBERG-SELOVE, FAY
FLYNN, EDWARD R. (P-9)
GARRETT, J. D.
HANSEN, OLE (P-9)

25-212
SUBTHRESHOLD FISSION IN PLUTONIUM -240 + N.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.158-9. 1975.
AUCHAMPAUGH, GEORGE F. (P-3)
WESTON, LAWRENCE W.

25-213
SURVEY OF PION CHARGE EXCHANGE REACTIONS WITH NUCLEI.
LASL, 1975. 26P. (LA-5948-MS)
MILLER, GERALD A. (T-5)
SPENCER, JAMES E. (MP-10)

25-214
SYSTEMATICS OF PION AND PROTON INTERACTIONS WITH NICKEL NUCLIDES.
PHYS. REV. LETT., V.35, P.641-4. 1975.
JACKSON, H. E.
BURMAN, ROBERT L. (***)
ET AL

25-215
TECHNIQUE FOR SIMULTANEOUS ADJUSTMENT OF LARGE NUCLEAR DATA LIBRARIES.
URANIUM -238 RESONANCE CAPTURE. 1975. SEMINAR, UPTON, NY. PAPERS, P.215-21. INFORMATION ANALYSIS CENTER. 1975. (BNL-NCS-50451)
HARRIS, DONALD R., JR. (T-2)
WILSON, WILLIAM B. (T-2)

25-216
TECHNIQUES WITH CALIFORNIUM -252 FOR NEUTRON CAPTURE GAMMA RAY SPECTROSCOPY.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.530. 1974.
DUFFEY, DICK
BALAGNA, JOHN P., JR. (CNC-11)
WIGGINS, P. F.

25-217
TEST OF THE GENERALIZED PAULI PRINCIPLE AND OF SUPERMULTIPLET SYMMETRY IN THE REACTIONS TRITON + BERYLLIUM -8 TO LITHIUM -6 + HELIUM -6, LITHIUM -6(*0+) + HELIUM -6.
ANN. PHYS., V.95, P.326-47. 1975.
(LA-UR-74-1940)*
VON OERTZEN, W.
FLYNN, EDWARD R. (P-9)

25-218
TESTS OF PARITY CONSERVATION IN PROTON - PROTON AND PROTON - NUCLEUS SCATTERING.
TIC, 1975. 7P. MN (LA-UR-75-1624)
POTTER, JAMES M. (MP-4)

25-219
THEORY OF THE SCATTERING OF PIONS BY NUCLEAR MATTER.
LASL, 1975. 48P. (LA-5842-MS)
BETHE, HANS A. (T-DO)
JOHNSON, MIKKEL (MP-DO)

25-220
THERMAL NEUTRON CAPTURE AND ABSORPTION CROSS SECTIONS FOR NICKEL -59.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.560. 1975.
JURNEY, EDWARD T. (P-DO)
HARVEY, J. A.
RAMAN, S.
HILL, N. W.

25-221
THREE BODY PHOTODISINTEGRATION OF HELIUM -3.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.505-6. 1974.
LEHMAN, DONALD R.
GIBSON, BENJAMIN F. (T-5)

25-222
THRESHOLD OF PION CONDENSATION.
PHYS. REV., V.D12, P.2230-6. 1975.
(LA-UR-74-1934)*
BERTSCH, GEORGE F. (T-9)
JOHNSON, MIKKEL (MP-DO)

25-223
TIME OF FLIGHT NEUTRON SPECTROSCOPY USING APPROXIMATELY 20 METER FLIGHT PATHS TO A NUCLEAR DEVICE.
NUCL. INSTRUM. METHODS, V.128, P.607-8. 1975. (LA-UR-75-743)*
FORMAN, LEON (J-16)
SILBERT, MYRON G. (P-3)
SCHELBERG, ARTHUR D. (J-16)

25-224
TIME ORDERING OF HIGH ENERGY MULTIPARTICLE PRODUCTION.
PHYS. REV. LETT., V.35, P.748-9. 1975.
(LA-UR-75-1103)*
GOLDHABER, ALFRED S. (T-5)

25-225
TOTAL NEUTRON CROSS SECTIONS OF HELIUM -3, HELIUM -4, LITHIUM -6, LITHIUM -7 IN THE MEV RANGE.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.18, P.538. 1973.
GOULDING, CHARLES A.
STOLER, PAUL
CLEMENT, J. M.
SEAGRAVE, JOHN D. (P-DOR)

25-226
TRANSPORT AND HYDRODYNAMIC ASPECTS OF MULTIPARTICLE PRODUCTION.
THEORIES AND EXPERIMENTS IN HIGH-ENERGY PHYSICS. 1975. ORBIS SCIENTIAE, 2ND, CORAL GABLES, FL. PROC., PART 1, P.419-41. PLENUM, 1975. (530:T396E)
COOPER, FREDERICK M. (T-DOT)
SHARP, DAVID H. (T-8)

25-227
TRITIUM (DEUTERON,NEUTRON) HELIUM -4 AND TRITIUM (TRITON,2NEUTRON) CROSS SECTIONS AT LOW ENERGIES.
LASL. 1975. 15P. (USNDC-CTR-2)
(LA-5828-MS)
STEWART, LEONA (T-2)
HALE, GERALD M. (T-2)

25-228
VACUUM POLARIZATION IN STRONG, REALISTIC ELECTRIC FIELDS.
PHYS. REV., V.A12, P.748-62. 1975.
(LA-UR-75-516)*
RINKER, GEORGE A., JR. (P-DOR)
WILETS, LAWRENCE

25-229
WHAT CAN RAPIDITY GAPS TEACH US ABOUT CLUSTERING?
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.649-50. 1975.
SLANSKY, RICHARD C. (T-8)
LUDLAM, THOMAS

25-230
WHAT DO RAPIDITY GAPS SAY ABOUT CLUSTERING?
PHYS. REV., V.D12, P.65-70. 1975.
(LA-UR-75-483)*
LUDLAM, THOMAS
SLANSKY, RICHARD C. (T-8)

25-231
YTTRIUM -89 (TRITON,PROTON) YTTRIUM -91 REACTION AT E(T) = 20 MEV.
PHYS. REV., V.C11, P.1691-700. 1975.
(LA-UR-74-935)*
PREEDOM, BARRY M.
FLYNN, EDWARD R. (P-9)
STEIN, NELSON (P-9)

25-232
ZERO PLUS STATES NEAR THE N=20 NEUTRON SHELL FROM ARGON(TRITON,PROTON) REACTIONS.
PHYS. LETT., V.B43, P.473-5. 1973.
CASTEN, RICHARD F.
FLYNN, EDWARD R. (P-9)
GARRETT, J. D.
ORBESEN, STUART D. (P-9)
HANSEN, OLE (P-9)

26. NUCLEAR SAFEGUARDS

26-1
AUTOMATED NONDESTRUCTIVE ASSAY INSTRUMENTATION FOR NUCLEAR MATERIALS SAFEGUARDS.
TIC, 1975. 7P. MN (LA-UR-74-1231)
ALSO PUBLISHED IN:
IEEE TRANS. NUCL. SCI., V.NS-22, P.739-43. 1975.
EAST, LARRY V. (A-1)
MARTIN, E. RAY (A-1)
ATWELL, THOMAS L. (A-1)
AUGUSTSON, RONALD H. (A-1)
MENLOVE, HOWARD O. (A-1)

26-2
AUTOMATED NONDESTRUCTIVE ASSAY SYSTEM FOR THE MEASUREMENT OF IRRADIATED ROVER FUEL.
TIC, 1975. 16P. MN (LA-UR-75-1078)
AUGUSTSON, RONALD H. (A-1)
MENLOVE, HOWARD O. (A-1)
SMITH, DARRYL B. (A-1)
BOND, AVERY L.
DURRILL, D. C.
HOLLOWELL, W. B.
BROMLEY, C. P.

26-3
CALIFORNIUM -252 NEUTRON SOURCE SYSTEMS FOR THE ASSAY OF URANIUM AND PLUTONIUM IN FUEL RODS.
DTIE, 1972. 9P. MN (LA-DC-72-977)
ALSO PUBLISHED IN:
APPLICATIONS OF CALIFORNIUM -252. 1972. AMERICAN NUCLEAR SOCIETY NATIONAL TOPICAL MEETING, AUSTIN, TX. PROC., P.277-81. TIC, 1975. (CONF-720902)
MENLOVE, HOWARD O. (A-1)

26-4
CONTINUOUS INVENTORY IN SNM STORAGE FACILITIES.
TIC, 1975. 9P. MN (LA-UR-75-1524)
CHAMBERS, WILLIAM H. (A-2)

26-5
CONTINUOUS INVENTORY IN SNM STORAGE FACILITIES.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.343-4. 1975.
CHAMBERS, WILLIAM H. (A-2)

26-6
DO'S AND DONT'S OF NONDESTRUCTIVE ASSAY MEASUREMENTS.
TIC, 1975. 20P. MN (LA-UR-73-859)
MENLOVE, HOWARD O. (A-1)

26-7
FUNDAMENTALS OF PASSIVE NONDESTRUCTIVE ASSAY OF FISSIONABLE MATERIAL: LABORATORY WORKBOOK.
LASL, 1975. 67P. (LA-5651-M, SUPPL.)
REILLY, T. DOUGLAS (A-1)
AUGUSTSON, RONALD H. (A-1)
PARKER, JACK L. (A-1)
WALTON, RODDY B. (A-1)
ATWELL, THOMAS L. (A-1)
UMBARGER, C. JOHN (A-1)
BURNS, COLLEEN E. (A-1)

26-8
GUIDE TO GAMMA RAY ASSAY FOR NUCLEAR MATERIAL ACCOUNTABILITY.
LASL, 1975. 39P. (LA-5794-M)
REILLY, T. DOUGLAS (A-1)
PARKER, JACK L. (A-1)

26-9
IN-PLANT NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL MATERIALS.
TIC, 1975. 28P. MN (LA-UR-75-1712)
ATWELL, THOMAS L. (A-1)
MENLOVE, HOWARD O. (A-1)
MARTIN, E. RAY (A-1)

26-10
INSTRUMENTATION TECHNIQUES FOR NDA (NONDESTRUCTIVE ANALYSIS) OF FISSILE MATERIAL.
TIC, 1975. 54P. MN (LA-UR-75-1069)
MARTIN, E. RAY (A-1)
AUGUSTSON, RONALD H. (A-1)

26-11
NEUTRON MEASUREMENTS OF URANIUM -234 ISOTOPIC ABUNDANCE IN URANIUM HEXAFLUORIDE SAMPLES.
TIC, 1975. 16P. MN (LA-UR-75-1331)
STIEFF, L. R.
WALTON, RODDY B. (A-1)
REILLY, T. DOUGLAS (A-1)
FIELDS, L. W.
WALKER, R. L.
MULLINS, W. T.
THOMS, J. I.

26-12
NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL RODS.
TIC, 1975. 22P. MN (LA-UR-75-1074)
MENLOVE, HOWARD O. (A-1)

26-13
NONDESTRUCTIVE ASSAY OF INVENTORY VERIFICATION SAMPLES AT THE LASL VAN DE GRAAFF SMALL SAMPLE ASSAY STATION.
TIC, 1975. 19P. MN (LA-UR-75-1013)
EVANS, ALBERT E. (A-1)
MALANIFY, JOHN J. (A-1)

26-14
NONDESTRUCTIVE ASSAY PHYSICAL STANDARDS AND TODAY'S SAFEGUARDS REQUIREMENTS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21, P.121-2.
1975.
BISHOP, D. M.
CHANDA, R. N.
SHEA, T. E.
SMITH, DARRYL B. (***)

26-15
NONDESTRUCTIVE ASSAY TECHNOLOGY AND IN-PLANT DYNAMIC MATERIALS CONTROL.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.833-4.
1975.
KEEPIN, G. ROBERT (A-1)

26-16
NONDESTRUCTIVE ASSAY TECHNOLOGY AND IN-PLANT MATERIALS CONTROL: DYMAC.
TIC, 1975. 24P. MN (LA-UR-75-1817)
KEEPIN, G. ROBERT (A-DO)
MARAMAN, WILLIAM J. (CMB-11)

26-17
NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT. PROGRAM STATUS REPORT, JANUARY - APRIL 1975.
LASL, 1975. 17P. (LA-6040-PR)
KEEPIN, G. ROBERT (A-1) COMP.

26-18
NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT. PROGRAM STATUS REPORT, SEPTEMBER - DECEMBER 1974.
LASL, 1975. 28P. (LA-5889-PR)
KEEPIN, G. ROBERT (A-1)

26-19
NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT PROGRAM STATUS REPORT, SEPTEMBER - DECEMBER 1972.
LASL, 1973. 29P. (LA-5197-PR)
KEEPIN, G. ROBERT (A-1) COMP.

26-20
ON LINE MEASUREMENT OF THE ISOTOPIC COMPOSITION OF URANIUM IN URANIUM HEXAFLUORIDE.
IEEE TRANS. NUCL. SCI., V.NS-22, P.731-3. 1975.
STIEFF, L. R.
WOLTZ, FRANK E.
REILLY, T. DOUGLAS (A-1)

26-21
PERFORMANCE OF SELECTED NONDESTRUCTIVE ASSAY TECHNIQUES ON LWR (LIGHT WATER REACTOR) (PLUTONIUM,URANIUM) DIOXIDE AND URANIUM DIOXIDE FUEL.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.19, P.303-4.
1974.
BISHOP, D. M.
MENZEL, JOERG H. (A-1)
PARKER, JACK L. (A-1)
REILLY, T. DOUGLAS (A-1)

26-22
PHYSICAL STANDARDS AND VALID CALIBRATION.
TIC, 1975. 10P. MN (LA-UR-75-1711)
SMITH, DARRYL B. (A-1)

26-23
RECENT DEVELOPMENTS IN THE DISSOLUTION AND AUTOMATED ANALYSIS OF PLUTONIUM AND URANIUM FOR SAFEGUARDS MEASUREMENTS.
TIC, 1975. 21P. MN (LA-UR-75-1607)
JACKSON, DARRYL D. (CMB-1)
MARSH, SINCLAIR F. (CMB-1)
REIN, JAMES E. (CMB-1)
WATERBURY, GLENN R. (CMB-1)

26-24
ROLE OF THE SMALL ACCELERATOR IN THE NONDESTRUCTIVE ASSAY LABORATORY.
APPLICATION OF SMALL ACCELERATORS.
1974. 3RD CONFERENCE, DENTON, TX.
PROC., V.II, INDUSTRIAL APPLICATIONS OF SMALL ACCELERATORS, P.209-24. TIC, 1975. (CONF-741040-P2)
EVANS, ALBERT E. (A-1)
ATWELL, THOMAS L. (A-1)
AUGUSTSON, RONALD H. (A-1)
MALANIFY, JOHN J. (A-1)
MENLOVE, HOWARD O. (A-1)

26-25
SAFEGUARDS ASPECTS OF SPENT NUCLEAR FUEL.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21, P.487-8.
1975.
MALANIFY, JOHN J. (A-1)
AUGUSTSON, RONALD H. (A-1)

26-26
SHIFT REGISTER NEUTRON COINCIDENCE MODULE.
LASL, 1975. 8P. (LA-6121-MS)
STEPHENS, MELVIN M. (R-1)
SWANSEN, JAMES E. (R-1)
EAST, LARRY V.

26-27
SYSTEM CONTROL FOR THE MODULATED CALIFORNIUM -252 SOURCE SHUFFLER.
LASL, 1975. 9P. (LA-6007-MS)
STEPHENS, MELVIN M. (A-1)

26-28
TOTAL PLUTONIUM AND URANIUM DETERMINATION BY GAMMA RAY DENSITOMETRY.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.140-1.
1975.
CANADA, THOMAS R. (A-1)
PARKER, JACK L. (A-1)
REILLY, T. DOUGLAS (A-1)

27. PHYSICS

27-1
100 MHZ POWER AMPLIFIER DESIGN AND CONTROL FOR A HEAVY ION ACCELERATOR.
LASL, 1975, 11P. (LA-5954)
LUNSFORD, JAMES S. (E-3)
SHIPLEY, JAMES P., JR. (E-4)
SUTTON, JOHN (E-3)

27-2
ADSORPTION OF RADIOKRYPTON ON ACTIVATED CHARCOAL IN THE PRESENCE OF HYDROGEN.
NOBLE GASES, 1973, SYMPOSIUM, LAS VEGAS, NV. PAPERS, P.349-59. ERDA, 1975. (CONF-730915 M)
FISHER, BILLY B. (WX-7)
NORRIS, ANDREW E. (CNC-11)
ROSE, DONALD G. (ENG-7)

27-3
DESIGN STUDIES OF HEAVY ION LINEAR ACCELERATORS CONSTRUCTED OF INDEPENDENTLY PHASED SPIRAL RESONATORS.
LASL, 1975, 20P. (LA-5856)
STOKES, RICHARD H. (P-12)
ARMSTRONG, DALE D. (P-14)

27-4
DIRECT USE OF YOUNG TABLEAU ALGEBRA TO GENERATE THE CLEBSCH-GORDAN COEFFICIENTS OF SU(2)*.
J. MATH. PHYS., V.16, P.2391-4, 1975.
(LA-UR-75-407)*
NACHAMKIN, JACK (E-DO)

27-5
DISINTEGRATION OF HELIUM -3 BY FAST NEUTRONS.
LASL, 1949, DECLASSIFIED 1972, 25P.
(LAMS-984)
COON, JAMES H.

27-6
DISORDERED HARMONIC CHAIN WITH SELF CONSISTENT RESERVOIRS.
PHYS. REV., V.B11, P.2164-70, 1975.
(LA-UR-74-1758)*
RICH, MARVIN (TD-3)
VISSCHER, WILLIAM M. (T-9)

27-7
FREE SPACE BOUNDARY CONDITIONS FOR THE TIME DEPENDENT WAVE EQUATION.
J. COMPUT. PHYS., V.18, P.66-78, 1975.
(LA-UR-74-1594)*
LINDMAN, ERICK L. (T-6)

27-8
INTRODUCTION TO EXPLOSIVE MAGNETIC FLUX COMPRESSION GENERATORS.
LASL, 1975, 31P. (LA-5890-MS)
FOWLER, CLARENCE M. (M-6)
CAIRD, ROBERT S., JR. (M-6)
GARN, WRAY B. (M-6)

27-9
LIFETIME, SURFACE TENSION, AND IMPURITY EFFECTS IN ELECTRON HOLE CONDENSATION.
PHYS. REV., V.B11, P.1569-82, 1975.
(LA-UR-74-1421)*
SILVER, RICHARD N. (T-6)

27-10
LIFETIME, SURFACE TENSION, AND IMPURITY EFFECTS IN ELECTRON HOLE CONDENSATION.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.486, 1975.
SILVER, RICHARD N. (T-6)

27-11
MODEL FOR HEAT CONDUCTION WITH FINITE SIGNAL SPEED.
J. MATH. PHYS., V.16, P.971-4, 1975.
(LA-UR-74-1001)*
DE FACIO, BRIAN (T-5)

27-12
ONSET CRITERIA FOR INSULATING ELECTRONIC TRANSITIONS IN THREE DIMENSIONAL SYSTEMS.
J. PHYS. C, V.8, P.L357-9, 1975.
(LA-UR-75-879)*
BRANDOW, BAIRD H. (T-9)

27-13
PLANAR CHANNELING THEORY: QUANTUM AND CLASSICAL.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.352, 1975.
VISSCHER, WILLIAM M. (T-9)
COULTER, C. ALTON (MP-DO)

27-14
REDUCTION OF SINGULAR COLLISION INTEGRALS IN PERTURBATION THEORY.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.428, 1975.
WIENKE, BRUCE R. (T-1)

27-15
RELATIVISTIC ROTATION OF AXES UNDER SUCCESSIVE LORENTZ TRANSFORMATIONS.
AM. J. PHYS., V.43, P.39-46, 1975.
(LA-UR-74-49)*
WEIHOFEN, WILLIAM H. (T-9)

27-16
STATIONARY NON-EQUILIBRIUM PROPERTIES OF A QUANTUM MECHANICAL LATTICE WITH SELF CONSISTENT RESERVOIRS.I.
PHYS. REV., V.A12, P.675-80, 1975.
(LA-UR-75-698)*
VISSCHER, WILLIAM M. (T-9)
RICH, MARVIN (TD-3)

27-17
STATIONARY NONEQUILIBRIUM PROPERTIES OF A QUANTUM MECHANICAL LATTICE WITH SELF CONSISTENT RESERVOIRS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20, P.103, 1975.
VISSCHER, WILLIAM M. (T-9)
RICH, MARVIN (TD-3)

27-18
TIME DEPENDENT BEHAVIOR IN ELECTRON HOLE CONDENSATION.
PHYS. REV., V.B12, P.3689-97, 1975.
(LA-UR-74-1987)*
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER 2, V.20, P.486, 1975.
SILVER, RICHARD N. (T-6)

27-19
TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, JANUARY 1 - MARCH 31, 1975.
LASL, 1975, 57P. (LA-5964-PR)
LATHROP, KAYE D. (T-1)

27-20
UNIFIED APPROACH TO MULTIPARTICLE PRODUCTION PROCESSES AT HIGH ENERGY.
THEORIES AND EXPERIMENTS IN HIGH-ENERGY PHYSICS, 1975, ORBIS SCIENTIAE, 2ND, CORAL GABLES, FL, PROC., PART 1, P.349-70, PLENUM, 1975. (530:T896E)
(LA-UR-75-3751)*
CARRUTHERS, PETER A. (T-DO)
ZACHARIASEN, FREDRIK

28. REACTOR TECHNOLOGY

28-1
ANALYSIS OF FUEL BUNDLE RADIOGRAPHS USING MODELING.
LASL, 1975. 26P. (LA-6011-MS)
DEMUTH, HOWARD B. (C-8)

28-2
ANALYTICAL CHEMISTRY PROGRAM FOR THE ANALYSIS OF URANIUM LOADED FUEL ELEMENTS.
LASL, 1961. DECLASSIFIED 1971. 73P.
(LAMS-2597)
ASHLEY, WILLIAM H.

28-3
BENCHMARK DOPPLER MEASUREMENTS USING A HYBRID STATIC/DYNAMIC HEATING TECHNIQUE.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.687.
1975.
RUSSELL, GARY J. (P-11)
FOELL, WESLEY K.

28-4
CALCULATED CONSEQUENCES OF SODIUM BOND LOSS FROM ADVANCED FUEL ELEMENTS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.421-2.
1975.
DEMUTH, NELSON S., JR. (CMB-11)
KERRISK, JERRY F. (CMB-11)

28-5
CINDER-7: AN INTERIM REPORT FOR USERS.
LASL, 1975. 13P. (LA-5885-MS)
ENGLAND, T. ALMADGE R. (T-2)
WILCZYNSKI, R.
WHITTEMORE, NADINE L. (T-2)

28-6
CLADDING OVALITIES IN ADVANCED LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL ELEMENTS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.186-7.
1975.
KERRISK, JERRY F. (CMB-11)
BARNER, JOHN O. (CMB-11)
PETTY, ROY LEE (CMB-11)

28-7
CONCEPTUAL DESIGN FOR A FAST REACTOR SAFETY TEST FACILITY. PRELIMINARY REPORT.
LASL, 1975. 75P. (LA-6031-MS)
ALLEN, JOHN D. (ENG-6)
CORT, GEORGE E. (Q-23)
MC LAUGHLIN, THOMAS P. (A-5)
PALMER, RONALD G. (T-DOT)

28-8
CONSEQUENCES OF SODIUM BOND LOSS FROM AN LMFBR (LIQUID METAL FUELED BREEDER REACTOR) CARBIDE FUEL ELEMENT.
LASL, 1975. 20P. (LA-6095-MS)
KERRISK, JERRY F. (CMB-11)

28-9
DESIGN FOR A ROTARY REACTIVITY CONTROL FOR A TEST REACTOR.
LASL, 1950. DECLASSIFIED 1971. 13P.
(LA-1172)
JOSEPHSON, VERNAL

28-10
EUROPIA HEATING IN CONTROL RODS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21, P.385.
1975.
KIDMAN, RUSSELL B. (T-2)

28-11
EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS. JULY 1 - SEPTEMBER 30, 1975.
LASL, 1975. 12P. (LA-6155-PR)
BAKER, RICHARD D. (CMB-DO) COMP.

28-12
EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, APRIL - JUNE 30, 1975, AND FY 1975.
LASL, 1975. 19P. (LA-6048-PR)
BAKER, RICHARD D. (CMB-DO) COMP.

28-13
EXTENDING THE TEMPERATURE RANGE OF THE HTR.
HIGH TEMPERATURE REACTOR AND PROCESS APPLICATIONS, 1974. INTERNATIONAL CONFERENCE, LONDON. PROC., P.25.1-3.
BRITISH NUCLEAR ENERGY SOCIETY, 1975.
(626:H638T)
BALCOMB, J. DOUGLAS (Q-DOT)
WAGNER, PAUL (CMB-8)

28-14
FTR (FUSION TEST REACTOR) TAG BURNUP.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21, P.452-3.
1975.
KIDMAN, RUSSELL B. (T-2)

28-15
FURTHER CONSIDERATIONS ON THE LOF-DRIVEN TOP ACCIDENT FOR LMFBRS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.402-3.
1975.
ALCOUFFE, RAYMOND E.
LOIS, L.
ET AL

28-16
GRAPHITIC FUELS FOR THE NUCLEAR ROCKET ENGINE.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21, P.173-4.
1975.
TAUB, JAMES M. (CMB-DO)

28-17
HIGH TEMPERATURE NUCLEAR REACTORS AS AN ENERGY SOURCE FOR HYDROGEN PRODUCTION.
TIC, 1974. 7P. MN (LA-UR-74-213)
ALSO PUBLISHED IN:
HYDROGEN ECONOMY. 1974. MIAMI ENERGY CONFERENCE, MIAMI BEACH. PROC., HYDROGEN ENERGY, PT.A, P.129-36.
PLENUM, 1975. (546.1:H995E PT.A)
BALCOMB, J. DOUGLAS (Q-DOT)
BOOTH, LAWRENCE A. (Q-DOT)

28-18
HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, JANUARY THROUGH MARCH 1975.
LASL, 1975. 62P. (LA-5975-PR)
KIRK, WILLIAM L. (A-DOT) COMP.

28-19
HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, APRIL - JUNE 1975.
LASL, 1975. 55P. (LA-6054-PR)
KIRK, WILLIAM L. (A-DOT) COMP.

28-20
HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, JULY - SEPTEMBER 1975.
LASL, 1975. 49P. (LA-6161-PR)
KIRK, WILLIAM L. (A-DO) COMP.

28-21
LASL ADVANCED PLUTONIUM LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL PROGRAM PUBLICATIONS.
LASL, 1975. 55P. (LA-5697-MS)
LEARY, JOSEPH A. (TD-7)

28-22
MODIFICATION OF THE LOS ALAMOS FAST PLUTONIUM REACTOR.
LASL, 1950. DECLASSIFIED 1971. 16P.
(LA-1163)
HALL, JANE H.

28-23
MOISTURE DETECTOR FOR THE PRIMARY LOOP OF GAS COOLED REACTORS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21, P.331-2.
1975.
DOWDY, EDWARD J. (A-2)
TAYLOR, GENE W. (WX-2)

28-24
NEUTRON MONTE CARLO CALCULATION FOR A 1000 MW PROPULSION REACTOR.
LASL, 1966. DECLASSIFIED 1972. 64P.
(LA-3635)
WATSON, CLAYTON W.
GRAVES, GLEN A.
STREETMAN, J. ROBERT

28-25
PINTEMP: A COMPUTER PROGRAM FOR FUEL ELEMENT DESIGN CALCULATIONS.
LASL, 1975. 26P. (LA-5868-MS)
KERRISK, JERRY F. (CMB-11)

28-26
PLUTONIUM FAST REACTOR AT LOS ALAMOS.
LASL, 1947. DECLASSIFIED 1971. 45P.
(LAMS-567)
HALL, JANE H.

28-27
POSTIRRADIATION RESULTS AND EVALUATION OF SODIUM BONDED URANIUM - PLUTONIUM CARBIDE FUEL ELEMENTS IRRADIATED IN EBR-II. INTERIM REPORT.
LASL, 1975. 23P. (LA-6077-MS)
LATIMER, TRENT W. (CMB-11)
BOST, D.
KERRISK, JERRY F. (CMB-11)
BARNER, JOHN O. (CMB-11)
GREEN, JERE L. (CMB-11)

28-28
PRELIMINARY REPORT, STUDY OF FAST REACTOR SAFETY TEST FACILITIES.
LASL, 1975. PAGED IN SECTIONS.
(LA-5978-MS)
BELL, GEORGE I. (T-DOT)
BOUDREAU, JAY E. (T-1)
MC LAUGHLIN, THOMAS P. (A-5)
PALMER, RONALD G. (T-DOT)
STARKOVICH, VICTOR S. (A-DOT)
STEIN, WILLIAM E. (P-DOR)
STEVENSON, MICHAEL G. (T-1)
YARNELL, JOHN L. (P-2)

28-29
PRELIMINARY TOPICAL REPORT ON COMPARISON REACTOR DISASSEMBLY CALCULATIONS.
LASL, 1975. 36P. (LA-6106-MS)
MC LAUGHLIN, THOMAS P. (A-5)

28-30
PRESTRESSED CONCRETE REACTOR VESSELS: REVIEW OF DESIGN AND FAILURE CRITERIA.
LASL, 1975. 8P. (LA-5902-MS)
ENDEBROCK, ELTON G. (ENG-7)

28-31
PROPOSAL FOR ANALYSIS OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) CORE RESPONSE TO SEISMIC INPUT.
LASL, 1975. 17P. (LA-5821-MS)
BENNETT, JOEL G. (ENG-7)
DOVE, RICHARD C. (ENG-7)

28-32
QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS. JANUARY 1 THROUGH MARCH 31, 1975.
LASL, 1975. 13P. (LA-5968-PR)
BAKER, RICHARD D. (CMB-DO) COMP.

28-33
QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS. OCTOBER 1 THROUGH DECEMBER 31, 1974.
LASL, 1975. 12P. (LA-5881-PR)
BAKER, RICHARD D. (CMB-DO) COMP.

28-34
QUARTERLY REPORT. HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, OCTOBER THROUGH DECEMBER 1974.
LASL, 1975. 51P. (LA-5870-PR)
KIRK, WILLIAM L. (A-DO) COMP.

28-35
QUARTERLY REPORT. TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY. OCTOBER 1 THROUGH DECEMBER 31, 1974.
LASL, 1975. 39P. (LA-5858-PR)
ERDAL, JEAN E. (T-1) COMP.

28-36
REACTIVITY CHANGES DUE TO BUBBLE GROWTH OR COLLAPSE IN MOLTEN FUEL SYSTEMS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.21, P.281-2.
1975.
MC LAUGHLIN, THOMAS P. (A-5)
TURNER, G. DAVID (TD-6)

28-37
SENSITIVITY ANALYSIS IN SHIELDING: AN OVERVIEW.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.791-2.
1975.
GERSTL, S. A. W. (T-1)

28-38
TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY. APRIL 1 - JUNE 30, 1975.
LASL, 1975. 44P. (LA-6029-PR)
LATHROP, KAYE D. (T-1)

28-39
TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY. JULY 1 - SEPTEMBER 30, 1975.
LASL, 1975. 60P. (LA-6137-PR)
LATHROP, KAYE D. (T-1)

29. SOLID STATE SCIENCE

29-1
ADDITIONAL POLYMORPHISM AND
NON-STOICHIOMETRY IN SILVER FLUORIDE.
J. PHYS. CHEM. SOLIDS, V.36, P.939-44
1975.
HALLECK, PHILLIP M. (WX-7)
JAMIESON, JOHN C. (M-6)
ROOF, RAYMOND BRADLEY, JR. (CMB-5)
PISTORIUS, C. W. F. T.

29-2
EVIDENCE FOR ORDER DISORDER IN PLUTONIUM
CARBIDE (0.80) AT LOW TEMPERATURES
THROUGH SPECIFIC HEAT MEASUREMENTS.
J. NUCL. MATER., V.57, P.145-50. 1975.
(LA-UR-74-1380)*
SANDENAW, THOMAS A. (CMB-8)

29-3
FITPI: MODIFICATIONS TO THE OPTICAL MODEL
PROGRAM PIRK FOR PARAMETER SEARCHES AND
TOTAL CROSS SECTIONS.
LASL. 1975. 13P. (LA-5929-MS)
COOPER, MARTIN D. (MP-4)
EISENSTEIN, ROBERT A. (MP-10)

29-4
LATTICE DYNAMICS AND STRUCTURAL
PROPERTIES OF SOLID NITROGEN.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.20,
P.461-2. 1975.
RAICH, JOHN C.
GILLIS, N. S.
ANDERSON, ALLAN B. (T-4)

29-5
SOLID STATE PROPERTIES OF FLUORIDE
CONTAINING COMPOUNDS OF 5F ELEMENTS.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS,
V.169, PAPER NO.FLUO-28. 1975.
ASPREY, LARNED B. (CNC-4)
ZACHARIASEN, WILLIAM H. (CMB-5)

30. MISCELLANEOUS (INCLUDING PROJECT ROVER)

30-1
ANAKTUVUK PASS, ALASKA VILLAGE CENSUS.
LASL, 1975. 37P. (LA-5999-MS)
HANSON, WAYNE C. (H-8)

30-2
ANALYSIS OF FIREBALL GROWTH AT SANDSTONE.
LASL, 1949. DECLASSIFIED 1972. 15P.
(LAMS-921)
ORPHAN, RICHARD C.

30-3
ANOMOLOUS LOCAL SNOWSTORM IN NEW MEXICO.
WEATHERWISE, V.28, P.200-3. 1975.
(LA-UR-75-1149)*
BARR, SUMNER (H-8)
CLEMENTS, WILLIAM E. (H-8)

30-4
BLAST WAVE.
LASL, 1947. DECLASSIFIED 1972. 179P.
(LA-1023)
BETHE, HANS A.

30-5
BLAST WAVE, VOLUME 7, PART 3.
LASL, 1947. DECLASSIFIED 1972. 149P.
(LA-1022, V.7, PT.3)
BETHE, HANS A.

30-6
BUILDING D PLUTONIUM PURIFICATION:
EQUIPMENT DRAWINGS.
LASL, 1945. DECLASSIFIED 1971. 158P.
(LA-409)
BRIESMEISTER, ARTHUR C.

30-7
CALORIMETER MEASUREMENT OF THE KIWI-A
GAMMA RADIATION.
LASL, 1960. DECLASSIFIED 1971. 62P.
(LA-2407)
STORM, ELLERY
ET AL

30-8
CARBON -13 LABELLED COMPOUNDS.
KAGAKU NO RYOIKI ZOKAN, SUPPL.107,
P.90-9. 1975.
OTT, DONALD G. (H-11)

30-9
CATHODIC VACUUM ETCHING TECHNIQUES FOR
GRAPHITE FUEL ELEMENT SECTIONS.
LASL, 1966. DECLASSIFIED 1972. 17P.
(LA-3514-MS)
BENDER, JOHN H., JR.

30-10
CESIUM KINETICS IN A MONTANE LAKE
ECOSYSTEM.
HEALTH PHYS., V.28, P.699-706. 1975.
(LA-UR-75-5001)*
HAKONSON, THOMAS E. (***)
WHICKER, F. WARD

30-11
CHARACTERIZATION OF TRANSURANIC SOLID
WASTES FROM A PLUTONIUM PROCESSING
FACILITY.
LASL, 1975. 24P. (LA-5993-MS)
MULKIN, RAY (CMB-11)

30-12
COMPARISON OF U.S. - ALLIED AND SOVIET
TACTICAL NUCLEAR FORCE CAPABILITIES AND
POLICIES.
ORBIS, V.19, P.72-92. 1975.
COHEN, S. T.
LYONS, WILLIAM C. (L-5)

30-13
COMPILATION OF SPECTROSCOPIC OBSERVATION
OF AIR AROUND ATOMIC BOMB EXPLOSIONS.
LASL, 1955. DECLASSIFIED 1972. 89P.
(LAMS-1935)
DE WITT, HUGH E.

30-14
CONCERNS OF INTERVENORS IN NUCLEAR POWER
PLANT LICENSING HEARINGS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.531.
1975.
SHAFFER, HOWARD C.
HENDRICKS, JOHN S. (TD-6)
ET AL

30-15
CRITICAL ASSEMBLY MOCKUP STUDIES OF THE
PHOEBUS-2 ROVER REACTOR.
LASL, 1966. DECLASSIFIED 1972. 56P.
(LA-3580-MS)
BALESTRINI, SILVIO J.
ET AL

30-16
CRYOGENIC THERMAL EXPANSION OF Y-12
GRAPHITE FUEL ELEMENTS.
LASL, 1968. DECLASSIFIED 1972. 4P.
(LA-3908)
EASH, DAVID T.

30-17
DEFENSE FORCE FOR NATO'S CENTRAL REGION.
LASL, 1975. 23P. (LA-5991-MS)
BUDEN, DAVID (ADWP-2)
HAYES, JOHN K. (ADWP-2)
HULBURT, CHARLES
HOWARD, JOSEPH S.
SANDOVAL, RICHARD R. (ADWP-2)

30-18
DESIGN CRITERIA (REVISED) FOR TRANSURANIC CONTAMINATED SOLID WASTE TREATMENT DEVELOPMENT FACILITY.
NTIS, 1974. 29P. MN (ENG-9-DC-74-05)
JORDAN, HARRY S., JR. (H-DO)
HERCEG, JOSEPH E. (H-8)
VALENTINE, ALLEN M. (H-1)

30-19
E DIVISION QUARTERLY STATUS REPORT, MARCH 1 - MAY 31, 1975.
LASL, 1975. 54P. (LA-6026-PR)
KEATON, P. W., JR. (E-DO) COMP.

30-20
EFFECT OF ATMOSPHERIC LIQUID WATER ON ATOMIC BOMBS.
LASL, 1954. DECLASSIFIED 1972. 84P.
(LAMS-1675)
MOORE, RICHARD L.

30-21
EFFECTS OF ADDING HYDROGENOUS MATERIAL TO KIWI REACTORS.
LASL, 1965. DECLASSIFIED 1972. 49P.
(LA-3227-MS)
KRAIG, HOWARD

30-22
EFFECTS OF RADIATION ON LUBRICANTS AND OTHER MATERIALS. A SURVEY OF CLASSIFIED LITERATURE, 1950-55.
LASL, 1955. DECLASSIFIED 1972. 63P.
(LAMS-1978)
BAUGHMAN, DOROTHY

30-23
ENERGY RELATED ACTIVITIES AT THE LOS ALAMOS SCIENTIFIC LABORATORY.
ENERGY RESEARCH IN THE ROCKY MOUNTAIN STATES. 1974. SYMPOSIUM, ALBUQUERQUE, NM. PROC., P.31-2. ENERGY INFORMATION CENTER, 1974. (333:E56RR)
HAMMEL, EDWARD F., JR. (ENERGY OFF)

30-24
ENVIRONMENTAL EVALUATION OF SOLID RADIOACTIVE WASTE DISPOSAL AREAS.
ABSTRACT PUBLISHED IN:
BULL. N. MEX. ACAD. SCI., V.15, NO.2, P.46. 1975.
GALLEGOS, ANTHONY F. (H-8)
WHEELER, MERLIN L. (H-8)
WHITTY, WILLIAM J. (H-8)
SMITH, W. JOHN (H-8)

30-25
EXPLOSION POWER - AN ENERGY SOLUTION?
IND. RES., V.17, NO.4, P.64-7. 1975.
AGNEW, HAROLD M. (DIR)

30-26
EXTRACTION OF FISSION PRODUCTS FROM ROVER FUEL ELEMENTS.
LASL, 1963. DECLASSIFIED 1972. 39P.
(LAMS-2783)
ANDERSON, ERNEST C.

30-27
FABRICATION OF URANIUM LOADED GRAPHITE FUEL ELEMENTS FOR KIWI-B4/B5 REACTORS.
LASL, 1963. DECLASSIFIED 1974. 63P.
(LA-2936)
MARTIN, WILLIAM W.
ET AL

30-28
FEASIBILITY STUDY OF THE DISPOSAL OF A ROVER REACTOR WITH HIGH EXPLOSIVES.
LASL, 1962. DECLASSIFIED 1972. 97P.
(LAMS-2688)
WACKERLE, JERRY D.

30-29
GENERAL CHARACTERISTICS OF PULSED PROPULSION SPACECRAFT.
ADVANCED PROPULSION CONCEPTS. 1971. 6TH AFOSR SYMPOSIUM, NIAGARA FALLS, NY. PROC., V.1, P.381. AFOSR, 1972.
(AFOSR-TR-71-3128)
(629.2:S89A 6TH V.1)
COTTER, THEODORE P. (N-DOT)

30-30
GENERAL EQUIPMENT AND TECHNIQUES.
LASL, 1947. DECLASSIFIED 1974. 122P.
(LA-1031)
KERST, DONALD W.

30-31
GOLDEN OPPORTUNITIES.
TUSKEGEE ENG. REV., V.4, NO.7-8, P.11-5. 1975.
DAVIS, FRANCES (ISD-4)

30-32
HYDROGEN AND FOOD FROM NUCLEAR HEAT AND MUNICIPAL WASTES.
HYDROGEN ECONOMY, 1974. MIAMI ENERGY CONFERENCE, MIAMI BEACH. PROC., HYDROGEN ENERGY, PT.A, P.331-8. PLENUM, 1975. (546.1:H995E PT.A)
(LA-UR-74-313)*
ANTAL, MICHAEL J., JR. (TD-1)

30-33
INTEGRAL NEUTRON AND GAMMA DOSE MEASUREMENTS ON KIWI-A THREE.
LASL, 1961. DECLASSIFIED 1971. 35P.
(LA-2585)
WORMAN, FREDERICK C. V.
ET AL

30-34
JULY 16TH NUCLEAR EXPLOSION SPACE - TIME RELATIONSHIPS.
LASL, 1946. DECLASSIFIED 1971. 139P.
(LA-531)
MACK, JULIAN E.

30-35
JULY 16TH NUCLEAR EXPLOSION. BLAST MEASUREMENTS WITH CONDENSER GAUGES
LASL, 1945. DECLASSIFIED 1971. 19P.
(LA-366)
BRIGHT, WILLIAM C.

30-36
KIWI TRANSIENT NUCLEAR TEST.
LASL, 1965. DECLASSIFIED 1972. 19P.
(LA-3325-MS)
FENSTERMACHER, CHARLES A.
KING, L. D. PERCIVAL
STRATTON, WILLIAM R.

30-37
KIWI-B HEAT EXCHANGER AND NEUTRONICS - DYNAMICS ANALYSIS.
LASL, 1960. DECLASSIFIED 1971. 23P.
(LAMS-2470)
MOHLER, RONALD R.
ET AL

30-38
KIWI-B1A GAMMA DOSE RATE MEASUREMENTS.
LASL, 1962. DECLASSIFIED 1971. 34P.
(LAMS-2695)
LEE, PHILIP K.
ET AL

30-39
LASL PANEL ON TACTICAL NUCLEAR WARFARE. REPORT OF THE THIRD MEETING. MAY 14-15, 1974.
LASL, 1975. 42P. (LA-6059-MS)
WELLNITZ, BEVERLEY A. (TD-4) COMP.

30-40
LAUNDRY DECONTAMINATION STUDIES AT LOS ALAMOS.
LASL, 1952. DECLASSIFIED 1974. 23P.
(LAMS-1370)
HOOVER, REYNOLD L.

30-41
LETTER.
FOREIGN AFFAIRS, V.53, P.773-4. 1975.
BENNETT, WILLIAM S. (ENERGY OFF)
SANDOVAL, RICHARD R. (ADWP-2)
SHREFFLER, ROBERT G. (DOS-1)

30-42
LICHEN FORAGE INGESTION RATES OF FREE ROAMING CARIBOU ESTIMATED WITH FALLOUT CESIUM -137.
REINDEER AND CARIBOU. 1972. 1ST INTERNATIONAL SYMPOSIUM, FAIRBANKS. PROC., P.71-9. UNIV. OF ALASKA, 1975.**
HANSON, WAYNE C. (***)
WHICKER, F. WARD
LIPSCOMB, JAMES F.

30-43
LOGNORMAL DAMAGE FUNCTION WITH OFFSET CIRCULAR NORMAL TARGET AND WEAPON LOCATIONS: MEAN AND OTHER MOMENTS.
LASL, 1975. 9P. (LA-6076-MS)
BRUCKNER, LAWRENCE A. (C-5)

30-44
LOS ALAMOS SCIENTIFIC LABORATORY PROGRAMS AND CAPABILITIES.
LASL, 1975. 142P. (LA-6047-MS)
HAMMEL, EDWARD F., JR. (DIR OFF)
ET AL

30-45
MACHINING AND INSPECTION PROCEDURES USED AT LOS ALAMOS SCIENTIFIC LABORATORY FOR FUEL ELEMENTS OF THE KIWI-B4 SERIES.
LASL, 1962. DECLASSIFIED 1972. 55P.
(LA-2669)
ZERWAS, ALFRED M.
STACK, FRANCIS E.

30-46
MEASUREMENT OF TRANSURANIC SOLID WASTES AT THE 10-NCI/G ACTIVITY LEVEL.
LASL, 1975. 12P. (LA-5904-MS)
UMBARGER, C. JOHN (H-1)
COWDER, LEO ROSS (A-1)

30-47
MEASUREMENT OF TRANSURANIC SOLID WASTES AT THE 10-NCI/G ACTIVITY LEVEL.
NUCL. TECHNOL., V.27, P.500-10. 1975.
(LA-UR-75-440)*
UMBARGER, C. JOHN (H-1)
COWDER, LEO ROSS (A-1)

30-48
METRICATION: INTRODUCTION AND COMMENTARY.
BULL. N. MEX. ACAD. SCI., V.15, NO.1, P.3-7. 1974.
BOHL, RICHARD J. (ADWP-1)

30-49
MONTE CARLO CALCULATION OF THE GAMMA RAY HEATING IN A PHOEBUS 1 NOZZLE FROM CORE SOURCES.
LASL, 1969. DECLASSIFIED 1971. 12P.
(LA-3577, SUPPL.)
WATSON, CLAYTON W.

30-50
MONTHLY STATUS REPORT OF LASL ROVER PROGRAM FOR PERIOD ENDING DECEMBER 20, 1962.
LASL, 1962. DECLASSIFIED 1974. 23P.
(LAMS-2829)
GLASSTONE, SAMUEL (D-DO) COMP.

30-51
NUCLEAR PROPULSION TECHNOLOGY TRANSFER TO ENERGY SYSTEMS.
TIC, 1975. 11P. MN (LA-UR-74-1412)
ALTSEIMER, JOHN H. (Q-23)
BALCOMB, J. DOUGLAS (Q-DOT)
KELLER, WILLIAM E. (Q-26)
RANKEN, WILLIAM A. (Q-25)

30-52
NUCLEAR WEAPONS, THEIR ROLE IN U. S. POLITICAL AND MILITARY POSTURE, AND AN EXAMPLE.
LASL, 1975. 14P. (LA-6078-MS)
SHREFFLER, ROBERT G. (DOS-1)
SANDOVAL, RICHARD R. (ADWP-2)

30-53
OMNIBUS ENVIRONMENTAL ASSESSMENT.
LASL, 1975. PAGED IN SECTIONS.
(LA-UR-75-5012)
H-DIVISION STAFF

30-54
ON CONTAINING A NUCLEAR EXPLOSION.
LASL, 1955. DECLASSIFIED 1972. 23P.
(LAMS-1859)
REINES, FREDERICK

30-55
ORGANIZING A WARTIME LABORATORY.
ALL IN OUR TIME: THE REMINISCENCES OF TWELVE NUCLEAR PIONEERS, J. WILSON, ED. CH.7, P.126-41. BULLETIN OF THE ATOMIC SCIENTISTS, 1974. (341:W749A)
MANLEY, JOHN H. (***)

30-56
P DIVISION PROGRESS REPORT, 20 JUNE 1948 - 20 JULY 1948.
LASL, 1948. DECLASSIFIED 1973. 21P.
(LAMS-782)
P-DIVISION PERSONNEL

30-57
PACER PROGRAM. FY 1974 LASL ACTIVITY. REFERENCES.
LASL, 1975. 607P. (LA-5764-MS)
SHREFFLER, ROBERT G. (DOS-1) COMP.

30-58
PACER PROGRAM. PHASE 1. THEORETICAL AND LABORATORY STUDIES.
LASL, 1974. 97P. (DOS-1-81)
SHREFFLER, ROBERT G. (DOS-1)
ET AL

30-59
PHOEBUS-2A REACTIVITY ANALYSIS.
LASL, 1969. DECLASSIFIED 1972. 32P.
(LA-4180-MS)
HEDSTROM, JAMES C.
KIRK, WILLIAM L.
SAPIR, JOSEPH L.

30-60
PHOTOELECTRIC OBSERVATIONS OF BOMB FLASHES AT A LONG DISTANCE.
LASL, 1948. DECLASSIFIED 1971. 6P.
(LAMS-731)
GITTINGS, HOMER T.

30-61
PILOT MODEL: INDUCTION HEATED ROTATING FLUIDIZED BED.
LASL, 1963. DECLASSIFIED 1971. 14P.
(LAMS-2839)
GILES, PAUL M.

30-62
PIT CATALOG. DESTINATION KIT.
LASL, 1946. DECLASSIFIED 1972. 12P.
(LAMS-381)
SCHREIBER, RAEMER E.

30-63
POSSIBLE DETECTION OF ATOMIC BOMB EXPLOSION BY PRESSURE MEASUREMENTS AT THE ANTIPODES.
LASL, 1948. DECLASSIFIED 1971. 6P.
(LAMS-667)
REINES, FREDERICK
TELLER, EDWARD

30-64
POWER DENSITY ASYMMETRIES IN COUPLED CORE REACTOR SYSTEMS.
LASL, 1964. DECLASSIFIED 1971. 12P.
(LA-3283-MS)
SEALE, ROBERT L.

30-65
PROCEEDINGS OF AN ADVANCED NUCLEAR PROPULSION SYMPOSIUM.
LASL, 1967. DECLASSIFIED 1972. 84P.
(LA-3229-MS, SUPPL.)
COOPER, RALPH S.

30-66
PROPOSAL TO DESIGNATE CERTAIN LAND AREAS OF THE LOS ALAMOS SCIENTIFIC LABORATORY AS A NATIONAL ENVIRONMENTAL RESEARCH PARK.
TIC, 1975. 21P. MN (LA-UR-74-1596)
HANSON, WAYNE C. (H-8)

30-67
PROPOSED FEDERAL HELIUM CONSERVATION POLICY AS RELATED TO THE HELIUM DEMANDS OF ENERGY RELATED NEW TECHNOLOGIES.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.56.
1975.
HAMMEL, EDWARD F., JR. (ENERGY OFF)

30-68
PUBLICATIONS OF LASL RESEARCH 1974.
LASL, 1975. 306P. (LA-5900-MS)
KERR, ALISON K. (ISD-4) COMP.

30-69
QUARTERLY PROGRESS REPORT OF LASL ROVER PROGRAM FOR THE PERIOD ENDING NOVEMBER 30, 1972.
LASL, 1973. DECLASSIFIED 1975. 70P.
(LA-5133-PR)
SKOBERNE, FREDERICK (N-DO) COMP.

30-70
QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENDING JULY 31, 1967.
LASL, 1967. DECLASSIFIED 1973. 2P.
(LA-3761-MS)
GLASSTONE, SAMUEL (D-DO) COMP.

30-71
QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC R AND D PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1969.
PART 2.
LASL, 1969. DECLASSIFIED 1972. 24P.
(LA-4110-MS)
GLASSTONE, SAMUEL (D-DO) COMP.

30-72
RADIATION DOSE TO BE EXPECTED FROM AERIAL PENETRATION OF AN ATOMIC CLOUD.
LASL, 1951. DECLASSIFIED 1971. 52P.
(LA-1308)
GALENTINE, PAUL G.

30-73
RADIOCHEMICAL MEASUREMENTS ON KIWI-A PRIME. SUMMARY REPORT.
LASL, 1961. DECLASSIFIED 1971. 78P.
(LA-2558)
SATTIZAHN, JAMES E., JR.
ET AL

30-74
RADIOCHEMICAL MEASUREMENTS ON KIWI-A3.
LASL, 1962. DECLASSIFIED 1972. 84P.
(LA-2787)
SATTIZAHN, JAMES E., JR
BRYANT, ERNEST A.
COWAN, GEORGE A.

30-75
RADIOCHEMICAL MEASUREMENTS ON KIWI-TNT
LASL, 1965. DECLASSIFIED 1973. 44P.
(LA-3290)
BRYANT, ERNEST A.
SATTIZAHN, JAMES E., JR.
WAGNER, GENEVIEVE F.

30-76
RATIONAL DYNAMIC LOADS ANALYSIS FOR AIR CUSHION VEHICLES IN RANDOM SEAWAY OR TERRAIN.
J. HYDRONAUT., V.9, P.90-8. 1975.
BARTHOLOMEW, ROBERT J. (***)

30-77
REDUCTION IN SURFACTANTS BY IRRADIATION.
BULL. ENVIRON. CONTAM. TOXICOL., V.13, P.31-6. 1975.
ROHRER, DAVID M. (***)
WOODBRIDGE, D. D.

30-78
RELEVANCE OF NUCLIDE MIGRATION AT OKLO TO THE PROBLEM OF GEOLOGIC STORAGE OF RADIOACTIVE WASTE.
TIC, 1975. 11P. MN (LA-UR-75-876)
ALSO PUBLISHED IN:
OKLO PHENOMENON. 1975. SYMPOSIUM, LIBREVILLE, GABON. PROC., P.499-507.
IAEA, 1975. (IAEA-SM-204/1)
(551:O41P)
WALTON, RAY D., JR.
COWAN, GEORGE A. (CNC-DO)

30-79
RESONANCE AUTOCATALYSIS.
LASL, 1945. DECLASSIFIED 1975. 14P.
(LA-269)
RICHTMYER, ROBERT D.

30-80
REVIEW OF FUEL ELEMENT DEVELOPMENT FOR NUCLEAR ROCKET ENGINES.
LASL, 1975. 48P. (LA-5931)
TAUB, JAMES M. (CMB-DO)

30-81
SCALING OF A BLAST FROM ONE MEDIUM TO ANOTHER.
LASL, 1950. DECLASSIFIED 1972. 9P.
(LA-1137)
SUYDAM, BERGEN R.

30-82
SELF FLYING ATOMIC BOMBS (NEW MEXICO JUMPING BEANS).
LASL, 1948. DECLASSIFIED 1972. 15P.
(LA-714)
GAMOW, GEORGE

30-83
SOME ROVER NEUTRONICS STUDIES.
LASL, 1962. DECLASSIFIED 1971. 36P.
(LAMS-2774)
MILLS, CARROLL B.

30-84
SOME U. S. STUDIES OF THE OKLO PHENOMENON.
OKLO PHENOMENON. 1975. SYMPOSIUM, LIBREVILLE, GABON. PROC., P.341-55.
IAEA, 1975. (IAEA-SM-204/5)
(551:O41P)
ALSO PUBLISHED AS:
TIC, 1975. 22P. MN (LA-UR-75-1127)
COWAN, GEORGE A. (CNC-DO)
BRYANT, ERNEST A. (CNC-11)
DANIELS, WILLIAM R. (CNC-11)
MAECK, WILLIAM J.

30-85
SPACE ELECTRIC POWER R AND D PROGRAM, QUARTERLY STATUS REPORT FOR THE PERIOD ENDING APRIL 30, 1969.
LASL, 1969. DECLASSIFIED 1972. 22P.
(LA-4183-MS)
GLASSTONE, SAMUEL (D-DO) COMP.

30-86
STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR FOUR MONTH PERIOD ENDING JULY 20, 1962.
LASL, 1962. DECLASSIFIED 1974. 15P.
(LAMS-2741)
DIRECTOR'S OFFICE

30-87
STORY OF THE LOS ALAMOS LABORATORY.
LASL, 1945. DECLASSIFIED 1972. 45P.
(LA-370)
BETHE, HANS A.

30-88
STRESS ANALYSIS AND STATIC TESTING OF KIWI GRAPHITE REFLECTOR CYLINDER STRUCTURES.
LASL, 1965. DECLASSIFIED 1971. 32P.
(LA-3317-MS)
NEUDECKER, JOSEPH W.

30-89
THEORY OF IMPLOSION.
LASL, 1949. DECLASSIFIED 1972. 194P.
(LA-1039)
FUCHS, KLAUS

30-90
THERMAL AND FLOW PERFORMANCE ANALYSIS OF THE KIWI-B-4E REACTOR.
LASL, 1965. DECLASSIFIED 1971. 50P.
(LA-3308-MS)
MC CLARY, JOHN A.
ET AL

30-91
TIME DENSITY STUDY OF WATER IN KIWI-B4 FUEL ELEMENTS WITH VARYING IMPACT VELOCITIES.
LASL, 1963. DECLASSIFIED 1974. 37P.
(LAMS-2993)
ROGERS, JOHN D., JR.
ET AL

30-92
TRANSURANIC SOLID WASTE STUDIES AT LOS ALAMOS.
REMOTE SYSTEMS TECHNOLOGY. 1975. 23RD CONFERENCE, SAN FRANCISCO. PROC., P.276-7. ANS, 1975.
(626:H832C 23RD AND 22ND)
(LA-UR-75-1053)*
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.759-61. 1975.
HILDNER, RICHARD A. (ENG-6)
BORDUIN, LEON C. (H-7)
DRAPER, WILEY E. (H-7)
WARNER, CHARLES L. (H-7)

30-93
TRITIUM CONTAINMENT AFTER BURIAL OF CONTAMINATED SOLID WASTE.
REMOTE SYSTEMS TECHNOLOGY. 1975. 23RD CONFERENCE, SAN FRANCISCO. PROC., P.100-6. ANS, 1975.
(626:H832C 23RD AND 22ND)
(LA-UR-75-1109)*
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.22, P.741. 1975.
WHEELER, MERLIN L. (H-8)
WARREN, JOHN LAWRENCE (H-7)

30-94
URBAN MICROMETEOROLOGY AND INSTRUMENTATION.
ABSTRACT PUBLISHED IN:
BULL. AM. METEOROL. SOC., V.54, P.332-3. 1973.
BARR, SUMNER (H-8)

AUTHOR INDEX

AAMODT, R. LEE (Q-22)
11-27

ABATE, JOSEPH
5-76

ABERNATHEY, ROBERT M. (CMB-1)
2-14

ADAMS, WARREN H. (H-7)
11-62
17-58

AGNEW, HAROLD M. (DIR)
30-25

AIELLO, WILLIAM P. (E-3)
19-6

AJZENBERG-SELOVE, FAY
25-4
25-211

AKASOFU, SYUN I. (P-4)
1-2
1-3
1-23

ALBERICO, W. M.
25-53

ALBRECHT, ROBERT W.
24-22

ALBRIGHT, JAMES N. (Q-22)
11-33
11-34
11-56

ALCOUFFE, RAYMOND E.
28-15

ALCOUFFE, RAYMOND E. (T-1)
24-12

ALDRIDGE, JACK P. (L-3)
20-49

ALDRIDGE, JACK P. (L-8)
4-44

ALEXANDER, Y.
25-139

ALFANO, R. R.
20-161

ALIRE, RICHARD M. (CMB-3)
7-22

ALLEN, JOHN D. (ENG-6)
28-7

ALLISON, PAUL W. (MP-9)
21-65
22-39

ALSTER, JONAS (MP-4)
22-49
25-77

ALTSEIMER, JOHN H. (Q-23)
11-4
11-46
11-47
30-51

ALVAREZ, HECTOR
1-10

ALVAREZ, RAYMOND A.
16-9
16-11
25-161

AMES, SUSAN (T-4)
3-27
3-33

AMOLS, HOWARD I. (MP-3)
5-30
5-57
5-101

AMSDEN, ANTHONY A. (T-3)
18-15
18-27
18-29
25-195

AMSDEN, ROSEMARY C. (CTR-8)
10-93

ANDERSON, ALAN N. (***)
22-52

ANDERSON, ALAN N. (MP-7)
22-5

ANDERSON, ALLAN B. (T-4)
4-60
29-4

ANDERSON, B. D.
22-5
22-52

ANDERSON, CHARLES A. (WX-3)
11-5
21-5

ANDERSON, D. G. M.
25-17
25-83

ANDERSON, ERNEST C.
30-26

ANDERSON, ERNEST C. (H-4)
5-10
5-11

ANDERSON, ERNEST C. (H-DO)
5-94

ANDERSON, ERNEST C. (H-DO) ED.
5-95

ANDERSON, ERNEST C. (H-DOT)
5-124

ANDERSON, JAMES L. (CMB-3)
13-18

ANDERSON, RICHARD C. (J-10)
18-13
18-19
18-48
18-54
18-56

ANDERSON, ROBERT E.
5-141

ANDERSON, ROBERT G. (H-5)
17-13
17-39

ANDREWS, GEORGE H., JR. (CMB-3)
7-22

ANTAL, MICHAEL J., JR. (***)
25-17
25-83

ANTAL, MICHAEL J., JR. (TD-1)
10-7
30-32

APEL, CHARLES T. (CMB-1)
2-1

APT, KENNETH E. (H-8)
2-16
17-34

APT, KENNETH E. (H-8) COMP.
17-25

ARMSTRONG, DALE D. (P-14)
10-62
25-10
25-102
27-3

ARMSTRONG, DALE E. (CNC-4)
21-30

ARMSTRONG, WILLIAM T. (CTR-3)
10-60
10-101

ARNOLD, JAMES R.
3-35

ARNOTT, STRUTHER
5-47

ARTHUR, EDWARD D. (P-3)
22-1
22-49
25-11
25-82
25-84
25-192
25-208

ARTHUR, EDWARD D. (T-2)
25-112
25-122

ASBRIDGE, JOHN R. (P-4)
1-8
1-9
1-14
1-15
1-20
1-24
1-25

ASHERY, D.
22-49

ASHLEY, WILLIAM H.
28-2

ASPREY, LARNED B. (CNC-3)
4-36
4-69
7-21

ASPREY, LARNED B. (CNC-4)
4-23
7-16
9-27
29-5

ATHERLY, ALAN G. (H-9)
5-44

ATWATER, HENRY F. (A-2)
20-103

ATWELL, THOMAS L. (A-1)
26-1
26-7
26-9
26-24

AUCHAMPAUGH, GEORGE F. (P-3)
25-101
25-135
25-136
25-151
25-152
25-212

AUGUSTSON, RONALD H. (A-1)
26-1
26-2
26-7
26-10
26-24
26-25

AUSTERN, N.
25-35

ANFORD, ROY A. (L-5)
20-9
20-25

BAER, H. W.
25-165

BAER, STEVE
12-2

BAILEY, ARTHUR G. (CTR-4)
10-6
10-117

BAILEY, DAVID J. (C-9)
21-16

BAKER, CHARLES P.
24-8

BAKER, DON A. (CTR-2)
10-18
10-102
10-130
10-131
10-136

BAKER, DON A. (CTR-2) COMP.
10-71

BAKER, GEORGE A., JR. (***)
21-72

BAKER, RICHARD D. (CMB-DO) COMP.
28-11
28-12
28-32
28-33

BALAGNA, JOHN P., JR. (***)
2-6
11-3

BALAGNA, JOHN P., JR. (CNC-11)
11-25
11-31
11-37
25-33
25-216

BALCOMB, J. DOUGLAS (Q-24)
12-4
12-17
12-20

BALCOMB, J. DOUGLAS (Q-DOT)
28-13
28-17
30-51

BALCOMB, J. DOUGLAS (Q-DOT) COMP.
12-16

BALESTRINI, SILVIO J.
30-15

BALESTRINI, SILVIO J. (CNC-11)
16-6

BAME, SAMUEL J., JR. (P-4)
1-2
1-3
1-8
1-9
1-10
1-14
1-15
1-19
1-20
1-23
1-24
1-25
1-26

BANKHURST, ARTHUR D.
5-141

BANKSTON, CHARLES A., JR. (Q-23)
11-47

BANTON, MARTIN E. (CTR-1)
10-32

BARD, RICHARD J. (CMB-8)
23-65

BARFIELD, W. DAVID (T-4)
25-162
25-163

BARNER, JOHN O. (CMB-11)
28-6
28-27

BARNES, DANIEL C. (CTR-6)
10-90
10-149

BARNES, JAMES E. (MP-3)
5-57

BARNES, JOHN F. (T-4)
4-30

BARNES, JOHN W. (CNC-11)
5-98
22-8
25-23
25-90

BARNHART, BENJAMIN J. (H-9)
5-44
5-102

BARR, SUMNER (H-8)
11-55
30-3
30-94

BARRETT, P. H.
4-40

BARRETT, RICHARD J. (***)
22-52

BARRETT, RICHARD J. (T-2)
12-18
22-5

BARSCHALL, HENRY H.
25-133

BARTHOLOMEW, ROBERT J. (***)
30-76

BARTHOLOMEW, ROBERT J. (ENG-7)
10-140

BARTLETT, MARY L. (H-6)
5-123
5-132

BARTLETT, ROGER J. (Q-26)
8-8
8-29
8-52

BARTLIT, JOHN R. (Q-26)
8-2

BARTSCH, ROBERT R. (CTR-3)
10-120
10-123

BATCHELOR, D. B.
10-85

BAUGHMAN, DOROTHY
30-22

BAUM, J. H.
25-43

BAXMAN, CLAIRE I. (T-2) COMP.
25-16

BAYHURST, BARBARA P. (CNC-11)
25-23
25-41

BAYTOS, JOHN F. (WX-3)
15-13

BDZIL, JOHN B. (M-3)
4-62
15-28

BEALE, HARRY A.
23-29

BEATTIE, WILLARD H. (L-3)
6-10

BEATTIE, WILLARD H. (L-8)
20-90

BEATTY, JERRY N. (J-7)
21-42

BECKER, MARTIN
25-201
25-202

BECKMAN, RICHARD J. (C-5)
11-11

BEHRING, W. E.
4-57

BELIAN, RICHARD D. (P-4)
3-39
19-6

BELL, GEORGE I. (T-DOT)
5-9
5-108
28-28

BELLMAN, RICHARD E.
21-43

BEMIS, C. E.
25-130

BENDER, JOHN H., JR.
30-9

BENDT, PHILIP J. (P-2)
10-38

BENJAMIN, ROBERT F. (L-4)
19-12
19-14
20-15
20-44
20-93
20-121
20-165

BENNETT, GLORIA A. (ENG-6)
13-10
13-19
13-20

BENNETT, JOEL G. (ENG-7)
28-31

BENNETT, MICHAEL J. (L-1)
20-88

BENNETT, MICHAEL J. (P-2)
25-102

BENNETT, WILLIAM S. (ENERGY OFF)
30-41

BENTLEY, RICHARD F. (P-11)
22-45
25-64

BENZIGER, THEODORE M. (WX-2)
15-21

BERGE, GERHARD (CTR-6)
10-81
10-133
10-135

BERGER, MICHAEL E. (TD-4)
18-9

BERGER, RICHARD L.
20-142

BERGQVIST, INGVAR L.
25-192

BERGSTRESSER, KARL S.
2-11
23-11

BERLIN, JANE K. (WX-2)
15-15
15-19

BERMAN, BARRY L.
16-9
16-11
25-160

BERMAN, ROBERT G.
11-28
11-39

BERNARD, WILLIAM (A-5)
24-19

BERS, ABRAHAM
10-142

BERTSCH, GEORGE F. (***)
25-60

BERTSCH, GEORGE F. (T-9)
25-143
25-195
25-222

BES, DANIEL R. (***)
25-97

BESSEY, ROBERT
3-11
3-32
3-40

BETHE, HANS A.
3-28
25-53
30-4
30-5
30-87

BETHE, HANS A. (T-DO)
25-144
25-219

BETTS, RUSSELL R.
25-24

BEVIS, DARELL A. (H-5)
17-46

BEYER, WILLIAM A. (T-7)
4-3
12-18

BEYER, WILLIAM A. (T-DOT)
21-53

BEZZERIDES, BANDEL (T-6)
10-10
10-14
10-26

BIEDENHARN, LAWRENCE C. (T-DO)
21-15
21-76

BIGGS, FRANK
4-25
4-56

BIGIO, IRVING J. (***)
20-32

BINDER, I.
25-193

BIRELY, JOHN H. (L-8)
6-7

BISCHEL, W. K.
20-105
20-122

BISHOP, D. M.
26-14
26-21

BISTIRLICH, J. A.
25-165

BIVINS, ROBERT L. (C-3)
21-73

BJORK, C. W. (P-DOR)
25-132
25-134

BLAIR, ALLEN G. (DIR OFF)
1-7

BLAIR, LARRY S. (L-3)
20-95

BLANPIED, G. (MP-10)
22-2

BLEVINS, DAVID J. (CTR-9)
8-1
8-10
8-12

BOBBETT, RONALD E. (E-3)
5-109

BOHANNON, GEORGE E. (T-5)
25-45
25-73
25-117
25-128

BOHL, RICHARD J. (ADWP-1)
30-48

BOHN, E. M.
25-19

BOICOURT, GRENFELL P. (CTR-4)
10-5
10-83
10-156

BOICOURT, ROSEMARY M. (T-2)
25-138

BOLGER, JOSEPH E. (MP-10)
22-12

BOLSTERLI, MARK (T-9)
25-196
25-197

BOND, AVERY L.
26-2

BONNER, BILLY E. (***)
25-6

BONNER, BILLY E. (P-DOR)
22-27
25-132
25-134

BOOTH, LAWRENCE A. (L-5)
13-11
20-39
20-65
20-127
20-148

BOOTH, LAWRENCE A. (Q-DOT)
28-17

BORDNER, C. A.
25-59
25-113

BORDUIN, LEON C. (H-7)
30-92

BOREL, EMILE
21-45

BORG, R. J.
8-42

BORING, A. MICHAEL (J-10)
4-41
4-59

BOSLER, GERALD E. (T-1)
10-54
10-109
20-37
20-38

BOST, D.
28-27

BOTTOMS, PAUL J. (J-10)
1-16
1-17
1-32

BOUDREAU, JAY E. (T-1)
28-28

BOWMAN, ALLEN L. (CMB-3)
9-8
9-15

BOWMAN, J. DAVID (MP-4)
25-103
25-153

BOWMAN, MELVIN G. (CMB-DO)
7-8

BOYER, K. G. (MP-10)
22-51

BOYER, KEITH (L-DO)
20-15
20-70
20-74
20-138

BRACKBILL, JEREMIAH U. (CTR-6)
10-90
10-149

BRACKBILL, JEREMIAH U. (T-3)
18-8
18-22

BRADBURY, JAMES N. (MP-3)
5-93
5-97
5-142
5-143
22-34

BRADY, F. P.
25-6

BRAITHWAITE, WILFRED J. (MP-10)
22-12

BRANDOW, BAIRD H. (T-9)
4-24
25-158
27-12

BREEDLOVE, JAMES R. (C-8)
21-71

BRESHEARS, W. DALE (CNC-3)
4-46

BRETSCHER, EGON
25-104

BRIDWELL, RICHARD J. (J-9)
11-52

BRIESMEISTER, ARTHUR C.
30-6

BRIGHT, WILLIAM C.
30-35

BRITT, HAROLD C. (P-9)
16-8
25-1
25-3
25-86
25-111

BRIXNER, BERLYN (M-5)
19-10

BROGLIA, RICARDO A. (***)
25-97

BROMLEY, C. P.
26-2

BRONISZ, STANLEY E. (CMB-5)
23-7

BRONSON, JOHN C. (Q-26)
4-22
4-38
4-39
4-63

BROOKINS, D. G.
11-1

BROOKS, MARY R. (H-4)
5-134

BROWN, D. I.
18-45

BROWN, DAVID (E-3)
13-15

BROWN, DONALD W. (Q-22)
11-27

BROWN, JACK
12-14

BROWN, ROBERT T. (J-15)
4-14
25-48

BROWN, RODNEY D.
14-9

BROWN, WILLIAM T. (J-10)
24-16

BROWNELL, JOHN H. (CTR-1)
10-50

BRUCKNER, LAWRENCE A. (C-5)
12-15
30-43

BRYAN, ROBERT G. (CMB-1)
2-8

BRYANT, ERNEST A.
30-74
30-75

BRYANT, ERNEST A. (CNC-11)
30-84

BRYANT, HOWARD C.
3-19
22-27
25-64

BRYANT, LAWRENCE E., JR. (M-1)
2-20

BUBERNAK, JOSEPH (CMB-1)
2-9

BUCHENAUER, C. JERALD (CTR-7)
10-77

BUCHHOLZ, JERRY R. (H-7)
2-26
17-58

BUDDING, ANTONIUS J.
11-49

BUDEN, DAVID (ADWP-2)
30-17

BUNCH, JAMES M. (CMB-5)
23-28

BUNKER, MERLE E. (P-2)
25-67
25-68

BUNKER, SUSAN S. (J-15)
3-29
3-45
18-38

BUNSHAH, R. F.
23-29
23-64

BURGESS, WILLIAM A.
17-40

BURKE, DENNIS (P-9)
25-5
25-28

BURKE, R. J.
10-33

BURKHALTER, P. G.
4-34

BURKHARDT, LOUIS C. (CTR-2)
10-18
10-76
10-97
10-102
10-131

BURMAN, ROBERT L. (***)
25-7
25-214

BURMAN, ROBERT L. (MP-2)
25-79

BURMAN, ROBERT L. (MP-4)
22-10
25-77
25-105

BURNETT, D. S.
25-43

BURNS, COLLEEN E. (A-1)
26-7

BUSTOS, JOSE M. (H-5)
17-29

BUTLER, GILBERT W. (CNC-11)
22-16
25-8
25-25

BUTLER, THOMAS D. (T-3)
18-25
18-30
18-33
18-41
18-52

BUZBEE, BILLY L. (C-3)
21-32

BYERS, CLEO C. (A-5)
24-18

BYERS, JACK
10-142

CADLE, RICHARD D.
1-1

CADY, HOWARD H. (WX-2)
9-17
15-16

CADY, WILLIAM E.
2-17

CAIRD, ROBERT S., JR. (M-6)
15-29
27-8

CALDWELL, JOHN T. (A-2)
16-1
16-9
16-11
16-12
20-103
25-160
25-161

CALKIN, JOHN W.
15-8

CAMPBELL, DAVID K. (T-8)
25-29
25-30

CAMPBELL, EVAN E. (H-5)
5-145
17-2
17-12
17-13
17-14
17-27
17-41

CAMPBELL, EVELYN W. (H-9)
5-4
5-45
5-129

CAMPBELL, GEORGE M. (CMB-11)
7-23

CAMPBELL, LAURENCE J. (Q-26)
8-17
8-19
8-51

CAMPILLO, ANTHONY J. (L-2)
5-58
5-63
5-68
5-111
20-143
20-160

CANADA, THOMAS R. (A-1)
26-28

CANFIELD, J. M.
4-55

CANTRELL, CYRUS D., III (L-DOT)
4-65
20-79
20-133

CANTRELL, EMMETT L. (CTR-3)
10-98
10-100
10-118
10-119
10-122
10-123

CARBONE, ROBERT J. (L-DOT)
20-67

CARDEN, J. R.
11-1

CARLINI, R.
25-64

CARLSON, BENGT G. (T-1)
24-15

CARLSON, R. V.
23-62

CARMAN, ROBERT L. (***)
20-57

CARMAN, ROBERT L. (L-4)
20-6
20-47

CARRUTHERS, PETER A. (T-DO)
27-20

CARSTENS, DEAN H. W. (CMB-3)
13-6
20-43

CARTER, LELAND L. (TD-6)
21-47
21-48
21-63

CARTER, WILLIAM J. (M-6)
4-29
18-44

CARTWRIGHT, DAVID C. (***)
4-42

CARTWRIGHT, DAVID C. (T-6)
4-49

CASELLA, VITO R. (CNC-11)
5-135
7-15
25-50
25-51
25-194

CASEY, HUGH (CMB-6)
13-5

CASH, DANIEL J. (J-9)
11-16
11-51

CASHWELL, EDMOND D. (TD-6)
21-11
21-47
21-48
21-50
21-63

CASPERSON, D. E.
25-137
25-178

CASSAPAKIS, CONSTANTINE G.
22-27
25-64
25-132

CASTEN, RICHARD F.
25-4
25-232

CATLETT, DUANE S. (CMB-6)
20-129

CAVANAUGH, J. F.
23-20

CHALLENGER, GEORGE E.
2-2

CHAMBERS, WILLIAM H. (A-2)
19-5
26-4
26-5

CHANDA, R. N.
26-14

CHANDLER, GEORGE I. (CTR-3)
10-21

CHARLES, ROBERT W. (***)
11-40

CHARLES, ROBERT W. (CNC-11)
11-2
11-25
11-31
11-37

CHAU, C. K.
8-35

CHEN, TUAN W. (T-5)
4-6
4-33

CHENG, Y. T.
25-98

CHRISTENSEN, ELDON L. (CMB-11)
17-8
17-9

CHRISTENSON, CONARD W. (H-7)
17-58

CHRISTY, ROBERT F.
15-5

CLARK, PETER
9-6

CLARKE, JOHN S. (TD-8)
20-68

CLEMENT, J. M.
25-225

CLEMENTS, WILLIAM E. (H-8)
11-44
11-55
30-3

CLINARD, ELVA H. (H-6)
5-3
5-61
5-123
5-132

CLINARD, FRANK W., JR. (CMB-5)
10-39

CLOSE, DONALD A. (A-1)
25-141
25-147

CLOUTMAN, LAWRENCE D. (T-3)
3-17
18-17
18-51

COBURN, MICHAEL D. (WX-2)
15-19
15-21

COCHAVI, S.
22-49

COCKS, F. H.
23-19

COHEN, E. G. D.
8-22

COHEN, JAMES S. (T-6)
4-2
4-9

COHEN, LEONARD
4-66
4-67

COHEN, S. T.
30-12

COHEN, STANLEY
22-27

COMLY, JACK C. (T-6)
20-31

CONANT, JOHN W. (WX-7)
8-7

CONNER, JERRY P. (P-4)
19-6

COOK, J. L.
21-64

COOK, WILLIAM A. (WX-3)
21-81

COON, JAMES H.
25-133
27-5

COOPER, FREDERICK M. (T-DOT)
25-171
25-226

COOPER, MARTIN D. (MP-4)
25-166
29-3

COOPER, RALPH S.
30-65

COOPER, RALPH S. (L-DO)
20-3
20-73
20-145

COOPER, RICHARD K.
22-4
22-33

COOPER, S.
25-165

CORT, GEORGE E. (Q-23)
10-20
28-7

CORTEZ, JOSEPH R. (H-1)
17-18

COTTER, THEODORE P. (N-DOT)
30-29

COULTAS, THOMAS A.
10-3
10-33
19-2

COULTER, C. ALTON (MP-DO)
27-13

COULTER, JAMES ROSS (SD-5)
5-117

COWAN, GEORGE A.
30-74

COWAN, GEORGE A. (CNC-DO)
1-13
7-13
30-78
30-84

COWAN, ROBERT D. (T-4)
3-21
4-13
4-34
4-57
4-58
4-66
4-67

COWDER, LEO ROSS (A-1)
30-46
30-47

COX, ARTHUR N.
25-80

COX, ARTHUR N. (J-15)
4-10

COX, ARTHUR N. (J-DOT)
3-14

COX, ARTHUR N. (T-DOT)
3-8
3-36
3-45

COX, EARL J. (H-1)
17-15

COX, JOHN P. (J-15)
3-4
3-14

COX, JOHN P. (J-DO)
3-8

COX, LAWRENCE E. (CMB-1)
2-13

CRAIG, BOBBY G. (M-3)
15-18
23-27

CRAM, L. SCOTT (H-10)
5-65
5-77
5-92
5-141

CRAMER, EUGENE M. (CMB-5)
17-35

CRANFILL, CHARLES W. (T-6)
20-13
20-147

CRAVER, BRUCE A.
25-155

CREMER, CHARLES C. (TD-2)
20-145

CRISSMAN, HARRY A. (H-10)
5-7
5-8
5-29
5-42
5-51
5-54
5-60
5-92
5-116
5-118
5-126
5-144

CRITCHFIELD, CHARLES L. (T-9)
25-199

CRITCHFIELD, CHARLES L. (T-9) TRANS.
21-45

CROMER, DON T. (CMB-5)
9-21
9-23
9-24
9-25

CROMER, DON T. (CMF-5)
9-3
9-9

CROWE, K. M.
25-165

CROWELL, JOHN M. (H-10)
5-7
5-8
5-19
5-20
5-41
5-66
5-67
5-75

CZANDERNA, A. W.
7-22

D'IPPOLITO, DAN
10-51

DABBS, J. W. T.
25-130
25-209

DAHL, DAVID A. (H-8)
11-55

DAHLBY, JOEL W. (CMB-1)
2-25

DALY, BART J. (T-3)
5-107

DALY, NORMAN R.
1-13

DAMIANO, FORTUNATO A. (CMB-7)
13-18

DANA, ARTHUR L. (TD-1)
10-7

DANIEL, HERBERT (MP-3)
22-34

DANIEL, JAMES W. (C-6)
21-33

DANIELS, WILLIAM R. (CNC-11)
25-68
30-84

DASHEN, ROGER F.
25-29
25-30

DAUZVARDIS, P.
19-2

DAVIDSON, J. P. (P-DOR)
25-127

DAVIDSON, JOHN P. (A-1)
25-141

DAVIDSON, JOHN P. (P-DOR)
25-147

DAVIDSON, RONALD C. (***)
10-58
10-59
10-143

DAVIDSON, RONALD C. (CTR-6)
10-1
10-25
10-51
10-85
10-104
10-115

DAVIES, K. T. R. (T-9)
24-2
25-107

DAVIS, CECIL G. (J-15)
3-20
3-29
3-45
18-38

DAVIS, FRANCES (ISD-4)
30-31

DAVIS, H. T.
5-81

DAVIS, J.
4-13

DAVIS, LEVERETT, JR.
3-24

DAVIS, T. NEIL
1-16
1-17
1-30

DAVIS, THOMAS O., JR. (H-5)
17-46
17-56

DAVIS, WILLIAM C. (M-3)
15-28
18-48
20-41

DE FACIO, BRIAN (T-5)
27-11

DE FIELD, JAMES D. (H-5)
17-10

DE LISI, CHARLES P. (T-10)
5-89
5-90
6-16

DE LISI, CHARLES P. (T-DOT)
4-3
5-76
5-87
5-88

DE POORTER, GERALD L. (L-8)
20-1
20-113

DE SILVA, ALAN W. (CTR-DO)
10-65

DE VAULT, GUILLAUME P. (T-4)
4-30

DE WITT, HUGH E.
30-13

DEAN, BRENDA J. (H-5)
17-57

DEAN, PHILLIP N.
5-124

DEAVEN, LARRY L. (H-9)
5-31
5-39
5-65
5-140

DECKER, JAMES F.
10-112

DELISLE, GEORG (Q-22)
11-12

DELL'ORCO, ROBERT T.
5-116

DEMUTH, HOWARD B. (C-8)
28-1

DEMUTH, NELSON S., JR. (CMB-11)
28-4

DENDY, JOEL E., JR. (C-6)
21-6

DENDY, JOEL E., JR. (T-7)
21-3

DENNIS, BERT R. (Q-22)
11-59

DEPP, STEVEN W. (E-DO)
5-109
19-18

DEUPREE, ROBERT G. (T-DOT)
3-9

DEVANEY, JOSEPH J. (L-5)
20-107
20-108
20-109
20-163

DEVERALL, JOHN E. (Q-25)
13-7
13-12

DI MARCO, JOSEPH N. (CTR-2)
10-18
10-76
10-102
10-107
10-130
10-131

DI MARCO, JOSEPH N. (CTR-2) COMP.
10-71

DIALS, GEORGE E. (ENERGY OFF)
12-8
12-10
12-13

DICELLO, JOHN F., JR. (MP-3)
5-13
5-57
5-81
5-101
5-136
5-139

DICK, RICHARD DEAN (M-2)
18-18

DICK, RICHARD DEAN (M-4)
18-42

DICKINSON, JAMES M. (CMF 6)
23-56

DICKMAN, DONALD O. (C-3)
20-20
20-24
21-20
21-79
21-80

DIETERLE, BYRON D.
22-27
25-64

DIKE, ROBERT S. (CTR-4)
10-18
10-76

DIMOPLON, GLORIA (***)
25-47

DIRECTOR'S OFFICE
30-86

DODDER, DONALD C. (T-9)
25-106
25-120

DONACHIE, MATTHEW J., JR.
23-17
23-61

DOOLEY, G. RICHARD, JR. (E-2)
21-4

DORR, FRED W. (C-DO)
20-27
21-21
21-67

DOSCHEK, G. A.
4-13
4-57
4-58
4-66
4-67

DOSS, JAMES D. (MP-3)
5-57

DOVE, RICHARD C. (ENG-7)
28-31

DOWDY, EDWARD J. (A-2)
16-1
16-9
16-11
24-5
28-23

DOWLER, KEITH E. (CMB-14)
2-5

DOWNING, JAMES N., JR. (CTR-7)
10-137
10-138
10-139

DOWNING, JAMES N., JR. (P-7)
10-23

DRAKE, DARRELL M. (P-3)
22-49
25-11
25-49
25-78
25-82
25-84
25-122
25-192
25-208

DRAKE, GLESSIE A. (H-4)
5-128

DRAPER, WILEY E. (H-7)
30-92

DREICER, HARRY (CTR-1)
10-50

DREICER, HARRY (CTR-DO)
10-32
10-126
10-145

DROPESKY, BRUCE J. (CNC-11)
25-8
25-68
25-90
25-207

DROSG, MANFRED (P-3)
25-49

DU CHARME, A. R.
23-43

DUBOIS, DONALD F. (T-6)
10-10
10-14
10-26
20-76
20-142

DUDDER, H. D.
20-128

DUDZIAK, DONALD J. (T-1)
10-2
10-19
10-31
10-86
10-109
10-124
22-18
25-187
25-188

DUDZIAK, DONALD J. (T-2)
10-111

DUFFEY, DICK
2-6
11-3
25-33
25-216

DUFFIELD, ROBERT B.
7-12

DUFFY, WILLIAM T.
13-3

DUNN, ELEANOR D. (MP-DO) COMP.
22-30
22-47
22-48

DUNNING, THOMAS H., JR. (***)
4-42

DUNNING, THOMAS H., JR. (T-6)
4-8
4-12

DURRILL, D. C.
26-2

EAKIN, R. T. (CNC-4)
5-86
14-2
14-3

EASH, DAVID T.
30-16

EAST, LARRY V.
26-26

EAST, LARRY V. (A-1)
26-1

EBERHARDT, L. L.
17-43

EBERHARDT, WILLIAM (ENG-2)
17-10

EDESKUTY, FREDERICK J. (CMF-9)
8-18

EDESKUTY, FREDERICK J. (Q-26)
8-7
8-34
8-36
12-1

EDWARDS, L. R.
23-12

EHLER, A. WAYNE (L-4)
20-30
20-48
20-100

EHRENBERG, STEPHEN N.
11-38

EICHELBERGER, JOHN C. (Q-21)
11-26
11-32
11-35

EILERS, DONALD D. (J-15)
3-14

EISENBERG, J. M.
22-20

EISENSTEIN, ROBERT A. (MP-10)
29-3

EISNER, MELVIN
10-23

EKBERG, ETHEN L. (MP-7)
22-32

ELDER, JOHN C. (H-5)
17-36
17-37
17-38

ELIEZER, SHALOM (T-DO)
25-87

ELKADY, A. A.
2-6

ELLER, P. GARY (CNC-4)
7-1
7-17
9-12
9-13

ELLIOTT, C. JAMES (T-6)
20-16
20-101
20-136

ELLIOTT, GUY R. B. (CNC-2)
7-5
12-8
12-13
12-14

ELLIOTT, REED O. (CMB-5)
9-10
23-40
23-55

ELLIS, ALBERT N. (P-3)
25-130

ELLIS, RICHARD F.
10-126

ELLIS, RICHARD F. (CTR-1)
10-50

ELLIS, WALTON P. (CMB-8)
9-5
9-11

ELLIS, WILLIAM R., JR. (CTR-3)
10-15
10-35
10-48
10-72
10-73
10-74
10-75
10-99
10-100
10-118
10-119

EMIGH, C. ROBERT (P-14)
10-62

ENDEBROCK, ELTON G. (ENG-7)
28-30

ENGER, M. DUANE (H-9)
5-4
5-45
5-129

ENGLAND, TALMADGE R. (T-2)
16-2
16-3
16-5
25-63
25-142
28-5

ENGLEMAN, ROLF, JR. (CMB-1)
2-15
4-1
4-32
4-48
10-6

ENLANDER, DEREK
5-26
5-69

ENOCH, JACOB (CTR-6)
10-106

ERDAL, BRUCE R. (CNC-11)
5-98
5-135
5-138
16-7
22-8

ERDAL, JEAN E. (T-1) COMP.
28-35

ERICKSON, WILLIAM C. (CMB-6)
21-23
23-60

ERKKILA, BRUCE H. (P-12)
25-23
25-41

ESSINGTON, EDWARD H. (H-7)
17-55

ESSINGTON, EDWARD H. (H-8)
17-43
17-48

ETTERS, RICHARD D.
4-60

ETTINGER, HARRY J. (H-5)
17-1
17-4
17-7
17-14
17-36
17-37
17-38

EUTSLER, BERNARD C. (H-5)
17-2
17-26

EVANS, ALBERT E. (A-1)
26-13
26-24

EVANS, G. FOSTER (TD-1)
20-3

EVANS, M. L.
25-132

EVANS, W. DOYLE (P-4)
3-26
3-31

EVERETT, CORNELIUS J. (TD-6)
21-11
21-28
21-38
21-47
21-48
21-49
21-61
21-66

EVERHARD-BAKKER, A. E.
1-32

EYRING, LEROY
9-8

FAIRCHILD, CHARLES I.
23-5

FAIRCHILD, CHARLES I. (H-5)
17-1
17-4

FAIRFIELD, DONALD H.
1-9
1-19
1-28

FAIRWEATHER, G.
21-3

FALTIN, FREDERICK W.
21-68

FARMER, OTIS A. (T-3)
18-41
18-52

FARNUM, EUGENE H. (L-4)
20-2
20-42
20-43
20-102
20-103
20-104
20-126
20-139

FAULKNER, GEORGE E. (L-2)
20-56

FAWCETT, BRIAN C.
3-21

FEBER, ROY C., JR. (CMB-8)
6-9
6-11

FELD, M. S.
20-40

FELDMAN, BARRY J. (***)
20-40

FELDMAN, BARRY J. (T-6)
20-16
20-98
20-99

FELDMAN, U.
4-13
4-57
4-58
4-66
4-67

FELDMAN, WILLIAM C. (P-4)
1-5
1-6
1-8
1-9
1-12
1-21
1-24
1-25
1-28

FENSTERMACHER, CHARLES A.
20-26

FENSTERMACHER, CHARLES A. (L-1)
20-70

FENSTERMACHER, CHARLES A. (L-DO)
20-82

FERBER, GILBERT J.
1-13

FERMI, ENRICO
21-77

FICKETT, WILDON (T-4)
15-17
15-20
18-28
18-35

FIELDS, L. W.
26-11

FIGUEIRA, JOSEPH F. (L-1)
20-4
20-97
20-98
20-114

FILIP, HENRY (L-8)
4-44

FINCH, FRANCIS T. (L-5)
20-39
20-108
20-127
20-151

FINN, R. S.
20-32

FISHBANE, PAUL M.
25-123

FISHER, BILLY B. (WX-7)
27-2

FISHER, HENRY N. (TD-8)
20-68

FISHER, ROBERT A. (L-2)
20-28
20-105
20-106
20-122

FLAUGH, HARRY L. (WX-3)
15-23

FLICKER, HERBERT J. (L-DOT)
4-44
20-49

FLINN, J. E.
23-21

FLORIN, ALAN E.
23-59

FLUHARTY, REX G. (P-11)
25-121
25-208

FLYNN, EDWARD R. (P-9)
25-4
25-5
25-9
25-28
25-32
25-35
25-74
25-76
25-157
25-186
25-211
25-217
25-231
25-232

FOELL, WESLEY K.
28-3

FOLDY, L. L.
25-204

FOLEY, JOHN E. (ENG-6)
17-30

FORD, WENDELL (E-5)
6-8

FOREST, CHARLES A. (TD-6)
21-47
21-48

FORMAN, LEON (J-16)
16-6
25-223

FORMAN, PETER R. (CTR-8)
10-18
10-41
10-66
10-102
10-103
10-131

FORSLUND, DAVID W. (T-6)
1-4
1-5
1-6
1-12
1-21
10-16
10-63
10-91
10-141
10-144
10-153
20-31
20-35
20-61
20-87
20-118
20-152
20-153

FOSSEY, D.
20-129

FOSTER, DUNCAN G. (T-2)
25-40

FOURNIER, ROBERT O.
11-36

FOWLER, CLARENCE M. (M-6)
27-8

FOWLER, ERIC B. (H-7)
17-48
17-55
17-58

FOWLER, ERIC B. (H-8)
17-43

FOWLER, JOSEPH L.
25-80

FOX, KENNETH
4-44

FRALEY, GARY S. (T-6)
10-13
10-17
20-13
20-54
20-119
20-120

FRANCO, VICTOR (T-5)
25-184

FRANK, JAMES S. (MP-4)
25-58

FRANK, THURMAN G. (L-5)
20-38
20-39
20-58
20-65
20-127
20-148

FRANKE, PAUL R., JR. (MP-7)
22-26

FRANKEL, S.
25-75

FRANTZ, CHARLES E. (CMB-5)
17-53
23-23

FRATI, W.
25-75

FREEMAN, BRUCE L. (CTR-3)
10-98
10-119
10-122
10-123

FREEMAN, BURTON E.
18-31

FREEMAN, DALE (H-10)
5-60

FREESE, KENNETH B. (CTR-8)
10-35
10-60
10-69
10-93
10-95
10-98
10-99

FREIDBERG, JEFFREY P. (CTR-6)
10-24
10-27
10-34
10-78
10-81
10-115
10-132
10-133
10-135

FREIDBERG, JEFFREY P. (Q-7)
10-134

FREIWALD, DAVID A. (L-5)
20-9
20-20
20-58
20-65
20-71

FREYMAN, ROBERT W. (E-4)
19-18

FREYMAN, ROBERT W. (E-DOR)
21-18

FRICKE, GERHARD
25-126

FRIES, RALPH JAY (L-1)
20-139

FRIES, RALPH JAY (L-4)
20-2
20-42
20-43
20-102
20-103
20-104
20-126
20-129

FRISCH, HARRY L.
4-62

FRISCH, OTTO R.
24-7

FRITZ, JOSEPH N. (M-6)
4-29

FROMAN, DAROL K.
15-2

FUCHS, KLAUS
30-89

FUENTES, RICARDO (CNC-4)
7-7
14-4
14-5
14-7

FUKA, LOUIS R. (Q-26)
8-26
8-27
8-28

FUKUSHIMA, EIICHI (CNC-4)
9-26
14-8
14-12
14-13
21-30

FULLER, JAMES L.
20-26

FULTON, R.
22-10

FULTYN, ROBERT V. (H-1)
21-37

FURCHNER, JOHN E. (H-4)
5-33
5-43
5-128

GAARDE, C.
25-24

GALBRAITH, HAROLD W. (T-7)
4-65

GALENTINE, PAUL G.
30-72

GALLEGOS, ANTHONY F.
5-34

GALLEGOS, ANTHONY F. (H-8)
30-24

GALLIMORE, JOHN C., JR. (H-1)
17-61

GAMMEL, JOHN L. (T-9)
25-20

GAMOW, GEORGE
30-82

GANDRUD, B.
1-29

GARDE, RAYMOND (H-8)
17-8
17-9
17-15

GARN, WRAY B. (M-6)
27-8

GARRETT, J. D.
25-4
25-211
25-232

GARY, S. PETER (P-4)
1-4
1-5
1-6
1-8
1-9
1-12
1-21
1-24

GAVRON, AVIGDOR I. (P-9)
16-7
16-8
16-13
25-1
25-3
25-86
25-111

GEBALLE, T. H.
23-34

GELBARD, E. M.
18-1

GENTRY, RICHARD A. (T-3)
18-12
18-21
18-46
18-49

GEOFFRION, LOUIS A. (H-5)
17-46

GEOFFRION, R. RONALD (CMB-QA)
2-25

GEORGE, JAMES E. (C-10)
21-1
21-2

GERSTENKORN, S.
2-28

GERSTL, S. A. W. (T-1)
10-2
10-86
10-124
25-187
25-188
28-37

GERWIN, RICHARD A. (CTR-6)
1-4
10-104
10-105
10-132
10-155

GERWIN, RICHARD A. (Q-6)
10-28

GETZINGER, RICHARD W. (L-3)
20-14
20-95

GIBBS, WILLIAM R. (T-5)
22-14
22-15
22-35
22-41
22-42
25-12
25-52
25-55
25-56
25-119
25-169
25-170
25-173

GIBNEY, ROBERT B. (CMB-8)
8-39

GIBSON, BENJAMIN F. (T-5)
22-14
22-15
22-31
22-35
22-41
22-53
25-12
25-27
25-52
25-55
25-56
25-91
25-92
25-95
25-100
25-109
25-119
25-167
25-169
25-170
25-221

GIDO, RICHARD G. (Q-23)
21-62

GIESSEN, BILL C.
23-40
23-55

GILBERT, JOEL S. (T-1)
20-7
20-33

GILBERT, RICHARD O.
17-43
17-55

GILES, PAUL M.
30-61

GILES, PAUL M. (ENG-6)
5-100

GILES, PAUL M. (H-6)
5-122

GILL, DENNIS H. (L-2)
20-56

GILLESPIE, CLAUDE M. (L-5)
20-71

GILLIS, N. S.
29-4

GILMORE, JAMES S. (CNC-11)
25-23
25-41

GIORGI, ANGELO L. (CMB-3)
8-6
9-2

GIOVANIELLI, DAMON V (L-4)
20-36
20-112

GITOMER, STEVEN J. (Q-6)
18-45

GITOMER, STEVEN J. (T-6)
10-144
20-121
20-140
20-141
20-144

GITTINGS, HOMER T.
25-99
30-60

GLADD, N. THOMAS (CTR-6)
10-1
10-67
10-85
10-104
10-105

GLADNEY, ERNEST S. (H-8)
2-16

GLASCOCK, M. D.
25-149

GLASS, G.
25-132

GLASSTONE, SAMUEL (D-DO) COMP.
30-50
30-70
30-71
30-85

GLAUNSINGER, W. S.
9-15

GOAD, CHRISTOPHER A. (H-10)
5-67
5-104

GOAD, WALTER B., JR. (T-10)
5-63
5-80

GODDARD, WILLIAM A., III
4-12

GODFREY, BRENDAN B. (T-6)
10-4
10-9
10-61
20-18
20-19
20-59
20-85
20-131
20-132

GODLOVE, TERRY F.
16-9
16-11

GODWIN, ROBERT P. (L-4)
20-100
20-112

GOEDBLOED, JOHAN P. (CTR-6)
10-34
10-80
10-127

GOLAND, ALLEN N.
10-154
25-26

GOLDHABER, ALFRED S.
3-24

GOLDHABER, ALFRED S. (T-5)
25-224

GOLDMAN, M. V.
20-142

GOLDSTEIN, BYRON
5-76
5-87

GOLDSTEIN, JOHN C. (T-6)
20-20
20-24
20-111

GOLDSTEIN, LOUIS (T-DOT)
8-53
8-54
8-61

GOMEZ, L.
5-81

GONZALES, MANUEL (H-5)
17-36
17-37
17-38

GOODRICH, EDWARD O., JR.
5-84

GOPLEN, BRUCE C. (MP-9)
22-40

GOSLING, JOHN T. (P-4)
1-26

GOULDING, CHARLES A.
25-225

GOW, CHARLES E. (J-10)
3-41

GRAM, PETER A. M. (MP-4)
22-24
25-59
25-113

GRANT, MICHAEL E.
14-4

GRANT, PATRICK M. (CNC-11)
2-18
5-85
5-98
5-135
5-138
7-15
19-4
22-8
25-179

GRAVES, GLEN A.
28-24

GRAY, DONALD M.
5-40

GRAY, W. H. (Q-26)
8-56

GREEN, JERE L. (CMB-11)
28-27

GREEN, WALTER V. (CMB-8)
10-84

GREGG, CHARLES T. (H-11)
5-106
5-137

GREGORY, WILLIAM S. (ENG-7)
13-19
13-20

GREINER, NORMAN R. (L-3)
20-95
20-156

GRIBBLE, ROBERT F. (CTR-3)
10-119
10-120
10-139

GRIBBLE, ROBERT F. (CTR-7)
10-56
10-138

GRIFFIN, JAMES D. (H-5)
17-26

GRILLY, JULIAMARIE L. (H-DO)
5-39

GRIMM, RAYMOND
10-142

GROSSMANN, WILLIAM, JR. (CTR-6)
10-78

GROSSMANN, WILLIAM, JR. (Q-6)
10-134

GRUEBLER, WILLI
25-10

GRYCZKOWSKI, GERARD E. (CTR-DOT)
10-151

GULA, WILLIAM P. (T-6)
20-54

GURLEY, LAWRENCE R. (H-9)
5-23
5-24
5-25
5-27
5-64
5-127
5-130
5-131

GURVITS, S. A.
25-139

GUTSCHER, WILLIAM D. (E-4)
10-119
10-122
21-52
22-33

H-DIVISION STAFF
30-53

HAARMAN, ROY A. (CTR-4)
8-15
10-76

HAAS, FREDERICK A. (Q-6)
10-134

HABERSTICH, ALBERT (CTR-2)
10-18
10-102
10-107
10-130
10-131

HACK, ALAN L. (H-5)
17-29
17-46

HAFER, JOHN F. (E-4)
21-39

HAGERMAN, DONALD C. (MP-DO)
25-166

HAKONSON, THOMAS E. (***)
30-10

HAKONSON, THOMAS E. (H-8)
5-34
17-24

HALBACH, KLAUS (MP-DO)
22-46

HALBIG, JAMES K. (MP-9)
13-17
25-149

HALE, GERALD M. (T-2)
25-120
25-191
25-227

HALE, GERALD M. (T-2) ED.
25-13

HALL, JANE H.
28-22
28-26

HALL, W. STANLEY (L-DOT)
20-121

HALLECK, PHILLIP M. (WX-7)
4-11
15-6
15-16
15-22
15-25
29-1

HALPERIN, J.
25-101

HALPERN, ISAAC
25-11
25-82

HAMILTON, DOUGLAS J.
13-3

HAMILTON, M.
11-11

HAMMEL, EDWARD F., JR. (DIR OFF)
30-44

HAMMEL, EDWARD F., JR. (ENERGY OFF)
30-23
30-67

HAMMEL, JAY E. (CTR-5)
10-37
10-57
10-83

HAMMER, CHARLES F. (CTR-7)
10-137

HAMPEL, ARNOLD E.
5-45

HANCOCK, JOHN H. (E-4)
25-62

HANKINS, DALE E. (H-1)
17-18
17-19

HANNERS, JOHN L. (H-9)
5-4

HANOLD, ROBERT J. (Q-23)
11-4
11-47
11-61

HANSEN, CARL J.
3-4

HANSEN, GORDON E. (A-5)
24-20

HANSEN, KAREN M. (H-10)
5-7
5-8
5-67

HANSEN, OLE (P-9)
25-4
25-5
25-24
25-32
25-211
25-232

HANSON, WAYNE C. (***)
30-42

HANSON, WAYNE C. (H-8)
17-3
17-16
30-1
30-66

HANTEL, LAWRENCE W. (WX-2)
15-24

HARDEKOPF, ROBERT A. (P-9)
21-65
25-10
25-41
25-175

HARDER, CARROLL R. (CTR-9)
8-1

HARDIN, JULIA MARIE (H-9)
5-110

HARGROVE, CLIFFORD K. (MP-4) COMP.
25-94

HARLOW, FRANCIS H., JR. (T-3)
18-15
18-27
18-29
25-195

HARMON, T. C.
20-49

HARP, GEORGE D.
25-207

HARPER, J. M. E.
23-34

HARRINGTON, BARBARA G.
11-39

HARRIS, DONALD R., JR. (T-2)
10-29
10-125
25-36
25-40
25-180
25-215

HARRIS, DONALD R., JR. (T-2) ED.
25-13

HARTWELL, GEORGE
9-6

HARVEY, ALEXANDER (MP-7)
22-21
22-36

HARVEY, J. A.
25-66
25-220

HARVEY, WILLIAM B. (M-4)
18-42

HASSENZAHL, WILLIAM V. (Q-26)
8-2
8-14
8-26
8-27
8-28
8-56
8-62
25-59
25-113

HASSENZAHL, WILLIAM V. (Q-26) COMP.
8-46
8-47
8-48

HAY, P. JEFFREY (T-6)
4-12
4-49

HAYDEN, JAMES J. (L-1)
20-88

HAYES, JOHN K. (ADWP-2)
21-54
30-17

HAYES, T. L.
5-14

HAYTER, SIDNEY W.
23-4

HAYWARD, THOMAS D. (P-11)
22-44

HEAD, EARL L.
23-24

HEALY, JOHN W. (H-10)
17-33

HEALY, JOHN W. (H-DO)
17-6

HEALY, JOHN W. (H-DO) ED.
5-115

HEARD, N.
1-32

HECHT, HARRY G. (CNC-2)
4-32

HECKER, SIEGFRIED S. (CMB-5)
23-14
23-22
23-23
23-38

HEDSTROM, JAMES C.
30-59

HEDSTROM, JAMES C. (Q-24)
12-4
12-17
12-20

HEDSTROM, JAMES C. (Q-DOT) COMP.
12-16

HEFFNER, ROBERT H. (MP-4)
25-58

HEIKEN, GRANT (Q-21) COMP.
11-53

HELD, BRUCE J. (***)
17-40

HELD, BRUCE J. (H-5)
17-46
17-50

HELLAND, JEROME A. (MP-3)
5-101
5-142
5-143

HELLER, LEON (T-5)
25-45
25-117
25-128

HELMICK, HERBERT H. (A-5)
24-19

HELMICK, HERBERT H. (P-5)
20-26

HEMMENDINGER, ARTHUR (P-3)
25-135
25-136

HENDERSON, D.
5-45

HENDERSON, DALE B. (***)
20-128

HENDERSON, DALE B. (T-6)
20-54
20-60
20-101
20-147
20-159

HENDRICKS, JOHN S. (TD-6)
30-14

HENINS, IVARS (CTR-5)
10-57

HENRYSON, H.
24-21

HENSLEY, JOHN C.
5-77

HENSLEY, W. K.
25-124

HERBST, MARK J. (L-1)
20-8

HERCEG, JOSEPH E. (H-8)
30-18

HERCZEG, PETER (T-5)
25-71
25-96
25-155

HERR, KENNETH C. (Q-24)
12-17

HERRICK, CLAUDE C. (CMB-8)
10-46
11-2
11-25
11-36

HESS, ANDREW T. (T-5)
22-20
22-42
25-56
25-167
25-169
25-170

HEWETT, DENNIS W. (CTR-6)
10-40
10-88
10-89

HIEBERT, RICHARD D. (E-3)
5-67
5-117

HIGBIE, PAUL R. (P-4)
1-11
1-18
19-6

HIGHLAND, V.
25-75

HILDEBRAND, CARL E. (H-9)
5-27
5-28
5-45
5-62
5-64
5-119
5-127
5-130

HILDNER, RICHARD A. (ENG-6)
30-92

HILL, H. HUNTER (CMB-5)
4-15
4-20
4-21
4-37
4-51
9-22
14-8
23-35
23-36

HILL, N. W.
25-209
25-220

HILL, THOMAS R. (T-1)
21-55
24-13
24-17

HILTNER, W. A.
3-39

HIRONS, THOMAS J. (TD-6)
24-3

HIRSCHFELDER, JOSEPH O.
18-43

HIRT, CYRIL W., JR. (T-3)
18-2
18-11
18-47
18-49
21-64

HO, J. L.
8-35

HOCKETT, JOHN E., JR. (WX-5)
23-32
23-51

HOFFER, JAMES K. (Q-26)
8-21
8-43

HOFFMAN, C. GORDON (L-4)
19-13

HOFFMAN, CYRUS M. (MP-4)
25-103

HOFFMAN, CYRUS M. (MP-4) COMP.
25-94

HOFFMAN, DARLEANE C. (CNC-11)
25-90

HOFFMAN, G. W. (MP-10)
22-2

HOFFMAN, MARVIN M. (J-12)
3-22

HOFFMAN, MARVIN M. (J-DOT)
3-15

HOFFMAN, P. S.
10-5

HOGENKAMP, H. P. C. (CNC-4)
14-1
14-4
14-5

HOHMANN, LYNDA K. (H-9)
5-102

HOHMANN, PHILIP G. (H-9)
5-23
5-24
5-25

HOLIAN, BRAD LEE (T-DOT)
23-31

HOLLABAUGH, CHARLES M. (CMB-8)
23-41
23-42
23-65

HOLLAND, LAURENCE M. (H-4)
5-94
5-125

HOLLAND, REDUS F. (L-3)
20-49

HOLLAND, REDUS F. (L-8)
4-44

HOLLEY, CHARLES E., JR.
23-24

HOLLEY, CHARLES E., JR. (CNC-2)
7-6

HOLLOWELL, W. B.
26-2

HOLM, DALE M. (H-6)
5-52
5-59
5-77
5-92
5-109
5-112

HOLT, SMITH L.
4-7
4-18
4-19
4-23

HOLTKAMP, DAVID B. (MP-10)
22-12

HONES, EDWARD W., JR. (P-4)
1-2
1-3
1-11
1-14
1-15
1-18
1-19
1-20
1-22
1-23
1-27
1-30

HONNELL, RICHARD E. (CMB-8)
23-27

HOOCK, D. W.
4-6
4-33

HOOVER, REYNOLD L.
30-40

HOPPER, GORDON L.
20-59

HORAK, HENRY G. (J-10)
18-14
18-19

HORAN, MARY (H-6)
5-120

HORAN, PAUL K. (H-10)
5-5
5-8
5-120
5-141

HORNE, ROGER A. (MP-7)
22-32

HOWARD, HILLARD H. (MP-7)
22-36
25-59
25-113

HOWARD, HILLARD H. (MP-DO)
22-21

HOWARD, JOSEPH S.
30-17

HOWARD, W. MICHAEL (P-11)
4-61

HOWARD, WILLIAM M.
25-101

HOWELL, ROBERT B. (CTR-2)
10-66
10-102
10-103
10-131

HSU, Y. C. (Q-22)
11-17

HSU, Y. C. (Q-DO)
11-9

HUANG, CHAO-YUAN (Q-26)
8-25
8-33

HUBER, ELMER J., JR.
23-24

HUBER, ELMER J., JR. (CNC-2)
7-6

HUDIS, JEROME
25-207

HUDSON, JERRY W. (L-8)
20-69

HUEBNER, WALTER F. (T-4)
3-23
4-31

HUGHES, WILLIAM M. (L-2)
20-22
20-135

HUI, B. H.
10-58
10-59

HULBURT, CHARLES
30-17

HUNDHAUSEN, ARTHUR J.
1-26

HUNT, BOB R. (C-8)
5-55
21-22
21-29
21-40
21-71

HUNTER, RAYMOND E. (TD-2)
25-135

HUNTER, ROBERT
20-22
20-135

HURLEY, GEORGE F. (CMB-5)
23-19

HUSSEINY, A. A.
10-29
10-125

HUSTON, J. E.
8-7

HUTSON, RICHARD L. (MP-3)
5-79
5-142
5-146
22-54

HWANG, R. N.
24-21

HYATT, EDWIN C. (H-5)
17-46

HYDER, A. K. (A-2)
20-103

HYER, RONALD C. (L-2)
5-68
20-77
20-143

IDE, HAROLD M. (H-5)
5-32

IMHOF, W. L.
3-42

IMPRESCIA, RICHARD J. (CMB-8)
22-43
23-6
23-30
23-47
23-50

INGRAHAM, JOHN C. (CTR-1)
10-32
10-37
10-50
10-126

INGRAM, MARYLOU (H-10)
5-7

ISOM, BONNIE LEE (H-5)
17-60

IVERSON, STEVEN (MP-10)
22-46

IYER, R. S.
25-179

JACKSON, DARRYL D. (CMB-1)
2-4
26-23

JACKSON, DOUGLAS E. (L-3)
20-107

JACKSON, DOUGLAS E. (L-8)
4-64

JACKSON, H. E.
25-7
25-214

JACKSON, JASPER A., JR. (P-11)
21-52
22-33
22-44

JACOB, N. P.
25-131

JACOBSON, ABRAM R. (CTR-7)
10-77
10-138
10-139

JACOBSON, JACK D. (T-4)
15-20

JAHODA, FRANZ C. (CTR-8)
10-93
10-94
10-95
10-112
10-150

JAIN, MAHAVIR
25-132

JAKOBSON, M.
22-10

JALBERT, ROLAND A. (H-1)
17-31

JAMES, G. D.
25-130

JAMES, LARRY T.
20-106

JAMESON, ROBERT A. (MP-9)
13-14
22-25

JAMIESON, JOHN C. (M-6)
29-1

JANNEY, DONALD H. (C-8)
5-55
21-22
21-35

JARBOE, THOMAS R. (CTR-5)
10-57
10-79

JARMIE, NELSON (***)
22-52

JARMIE, NELSON (P-9)
3-19
20-104
22-5
25-41
25-57
25-98
25-183

JARMIE, NELSON (P-DOR)
25-23

JARVIS, GEORGE A. (A-5)
24-18
24-19

JASINSKI, JERRY P. (CNC-4)
4-7
4-18
4-19
4-23

JEFFRIES, ROBERT A. (J-10)
1-30

JEKOWSKI, JOHN P.
19-17

JENSEN, G.
25-49

JENSEN, REED J. (L-3)
20-41
20-53

JENSEN, REED J. (L-DO)
20-52 20-63
20-64
20-90

JETT, JAMES H. (H-10)
5-1
25-98

JIACOLETTI, RICHARD J. (Q-DOT)
12-6

JOHNSON, DONALD H.
11-18

JOHNSON, GEORGE L. (H-7)
17-58

JOHNSON, JAMES D. (T-DOT)
8-22

JOHNSON, JAMES O. (WX-7)
15-22
15-25

JOHNSON, KAYE ALLAN (CMB-11)
23-21

JOHNSON, KENDAHL J. (CTR-4)
10-119
10-122

JOHNSON, LAMAR J. (H-8)
11-14
17-17

JOHNSON, MIKKEL (MP-DO)
3-28
25-53
25-81
25-144
25-219
25-222

JOHNSON, OGDEN S. (H-4)
5-83
5-134

JOHNSON, R. G.
3-42

JONES, ERIC M. (J-10)
3-2
3-6
3-13
3-34
3-43
3-44
3-46
18-13
18-21
18-46
18-53
18-55

JONES, LARRY A. (P-3)
4-1
10-6
10-49
10-64

JONES, LLEWELLYN H. (CNC-4)
4-50

JONES, THOMAS L., JR. (CMB-6)
23-10

JOOSTEN, H. P. G.
4-46

JOPPA, RICHARD M. (M-6)
15-14

JORDAN, HARRY S., JR. (H-DO)
17-49
30-18

JORDAN, THOMAS L. (C-3)
21-36

JORGENSEN, CHRISTIAN K.
7-9

JOSEPHSON, VERNAL
28-9

JUDD, O'DEAN P. (L-2)
20-83

JUDD, O'DEAN P. (T-6)
4-45
20-162

JURNEY, EDWARD T. (P-DO)
25-65
25-66
25-220

KAHANER, DAVID K. (C-6)
21-54

KAHN, MILTON (CNC-11)
5-85

KALLNE, ELISABETH (P-3)
4-1
10-49
10-64

KALLNE, JAN (MP-10)
22-12

KAMAL, MARWAN R.
11-18

KAPETANAKOS, C. A.
10-58

KARR, HUGH J. (CTR-2)
10-18
10-66
10-102
10-103
10-131

KAUFMANN, WILLIAM B. (T-5)
22-42
25-56
25-169
25-170

KEADY, CHARLES J.
11-32

KEARNEY, PHILIP D.
1-25

KEATON, P. W., JR. (E-DO)
25-10
25-150
25-175
25-177

KEATON, P. W., JR. (E-DO) COMP.
30-19

KEDDY, EDWARD S. (Q-25)
13-7
13-12

KEENAN, THOMAS K. (CMB-11)
23-48

KEEPIN, G. ROBERT (A-1)
26-15
26-18

KEEPIN, G. ROBERT (A-1) COMP.
26-17
26-19

KEEPIN, G. ROBERT (A-DO)
26-16

KELLER, CHARLES F. (J-15)
3-1

KELLER, WILLIAM E. (P-8)
8-55

KELLER, WILLIAM E. (Q-26)
8-5
8-26
8-27
8-28
8-60
30-51

KELLER, WILLIAM E. (Q-26) COMP.
8-23
8-24
8-38
8-58
8-59

KELLEY, GREGORY M. (CNC-11)
25-90

KELLEY, PATRICIA A. (E-DO) COMP.
13-4

KELLEY, ROBERT O.
5-126

KELLNER, RICHARD G. (C-6)
21-54

KEMME, JOSEPH E. (Q-25)
13-7
13-12

KENEFICK, R. A.
25-132

KENISTON, BEVERLY A.
5-140

KENNEDY, JOSEPH W.
23-53
23-54

KENNEDY, R. CRAIG (CNC-3)
4-69

KENT, RICHARD A. (CMB-11)
23-48

KEPHART, JOHN F. (L-4)
20-36
20-100

KERMAN, ARTHUR K.
25-118

KERN, EDWARD A. (L-5)
20-7
20-65
20-127
20-148

KERR, ALISON K. (ISD-4) COMP.
30-68

KERR, EUGENE C. (Q-26)
8-43

KERRISK, JERRY F. (CMB-11)
17-28
28-4
28-6
28-8
28-25
28-27

KERST, DONALD W.
30-30

KERWIN, WILLIAM J.
13-3

KEYWORTH, GEORGE A. (P-3)
25-209

KIDMAN, RUSSELL B. (T-2)
12-19
28-10
28-14

KIEFER, JOHN H.
4-46

KILNER, J. R.
3-42

KIM, KYU C. (L-8)
20-81

KIM, YEONG E. (T-5)
25-155

KINDEL, JOSEPH M. (T-6)
10-16
10-63
10-91
10-141
10-144
10-153
20-31
20-35
20-61
20-87
20-118
20-130
20-146
20-152
20-153

KING, DAVID S. (J-15)
3-4
3-14

KING, GLENDALL L.
2-27

KING, L. D. PERCIVAL
30-36

KING, N. S. P.
25-6

KING, T. R.
25-59
25-113

KINSEY, JAMES L.
25-47

KINTZINGER, PAUL R. (Q-22)
11-19
11-24

KIRBY, THOMAS B.
18-55

KIRCHER, MARY (L-1)
20-46
20-134
20-155

KIRK, WILLIAM L.
30-59

KIRK, WILLIAM L. (A-DO) COMP.
28-20
28-34

KIRK, WILLIAM L. (A-DOT) COMP.
28-18
28-19

KIRKPATRICK, RONALD C. (TD-2)
20-145

KLARE, KENNETH A. (MP-4)
25-58

KLEBESADEL, RAY W. (P-4)
3-26
3-30
3-31
3-38
3-42

KLEVECZ, ROBERT R.
5-140

KLIGERMAN, MORTON M. (ADRT)
5-13
5-81
5-99
5-136
5-139

KLIGERMAN, MORTON M. (DIR OFF)
5-16

KLINE, JOHN VIRGIL (CMB-1)
19-16

KMETKO, EDWARD A. (T-4)
4-15
4-20
4-37
4-51

KNAPP, EDWARD A. (MP-3)
5-93
5-97
5-142

KNIGHT, JERE D. (CNC-11)
22-50
25-50
25-51
25-185

KNOWLES, HARROLD B. (MP-3)
5-57
5-101
5-142

KODIS, JOHN W. (J-10)
18-23

KOELLE, ALFRED R. (E-3)
5-109
19-18

KOEN, BILLY V.
21-50

KOENIG, SEYMOUR H.
14-9

KOHLER, DAVID R. (L-4)
20-45

KOLLMAN, VICTOR H. (H-11)
5-17
5-58
5-63
5-68
5-111
14-6
14-10
20-143
20-160

KOLSTAD, CHARLES D. (ENERGY OFF)
11-34

KOLSTAD, CHARLES D. (Q-DO)
12-18

KONECNY, E. (P-9)
16-8
25-1
25-3
25-111

KOONIN, S. E. (T-9)
25-12
25-55
25-107
25-118

KORNILOV, A. N.
7-6

KRAEMER, PAUL M. (H-4)
5-56

KRAEMER, PAUL M. (H-9)
5-35
5-36
5-39
5-44
5-116

KRAIG, HOWARD
30-21

KRAJCIK, RICHARD A. (T-8)
25-21
25-22
25-174
25-204

KRAKOWSKI, ROBERT A. (CTR-7)
10-3
10-31
10-43
10-109
10-111
10-146
19-2

KRAKOWSKI, ROBERT A. (CTR-DOT)
10-33
10-48
10-140

KRANE, KENNETH S.
25-146

KRANE, KENNETH S. (P-2)
25-85

KRATZ, J. V.
25-193

KRAUSHAAR, J. J.
22-55

KRESSIN, IVAN K. (H-5)
17-41

KRISTAL, RICHARD (CTR-3)
10-110

KRISTAL, RICHARD (CTR-8)
10-47
10-95
10-122
10-150
20-123

KRUPKA, MILTON C. (CMB-3)
11-7
11-38

KUBAS, GREGORY J. (CNC-4)
7-17

KUTAC, KENNETH J. (CTR-4)
10-119
10-120

LA BAUVE, PATRICIA M. (H-4)
5-19
5-20
5-41
5-67
5-125

LA BAUVE, RAPHAEL J. (T-2)
25-19

LA BELLE, H. E., JR.
23-19

LADISH, JOSEPH S. (L-1)
20-4
20-46

LAM, W.
22-1

LAND, CLETIS C. (CMB-5)
23-26

LANDAHL, CHARLES E. (L-1)
20-92

LANDT, JEREMY A. (E-DOR)
5-109

LANE, THOMAS F. (MP-3)
5-57
5-101

LANGER, GERHARD
1-1

LAQUER, HENRY L.
23-18

LAQUER, HENRY L. (CMF-9)
8-9

LAQUER, HENRY L. (Q-26)
8-8
8-12
8-43
8-49
8-50

LAROS, JOHN G. (P-4)
3-3

LARSEN, J. S.
25-24

LARSEN, SAMUEL D. (CNC-4)
7-20

LARSON, ALLEN C.
9-21
9-24
9-25

LARSON, ALLEN C. (CMB-5)
9-17

LARSON, ALLEN C. (CNC-4)
7-4

LATHROP, KAYE D. (T-1)
18-1
24-21
27-19
28-38
28-39

LATIMER, TRENT W. (CMB-11)
28-27

LAUGHLIN, A. WILLIAM (***)
11-1

LAUGHLIN, A. WILLIAM (Q-22)
11-10
11-19
11-21

LAUSHKIN, NIKOLAI
17-10

LAWRENCE, FRANCINE O. (CNC-11)
25-90

LAWRENCE, GEORGE P. (P-11)
22-4
22-44
22-45

LAWRENCE, JAMES N. P. (H-1)
5-96

LAZARUS, ROGER B. (C-3)
21-74

LAZRUS, ALLAN L.
1-29

LEARY, JOSEPH A. (TD-7)
28-21

LEAVITT, C. P.
25-64

LEDERMAN, GORDON F., JR. (M-3)
23-27

LEE, CLARENCE E. (TD-1)
7-24
10-7

LEE, CLARENCE E. (TD-4)
24-1

LEE, DAVID M. (MP-10)
19-3

LEE, J. D.
10-19

LEE, KENNETH (T-6)
10-16
10-141
10-153
20-31
20-35
20-61
20-87
20-146
20-152

LEE, PHILIP K.
30-38

LEE, VALERIE J. (H-8) COMP.
17-25

LEHMAN, DONALD R.
22-31
22-53
25-91
25-92
25-100
25-221

LELAND, WALLACE T. (L-1)
20-46
20-134
20-155
25-185

LEMON, GLENN D. (ENG-8)
13-10

LEMONS, DON S. (P-4)
1-21

LEON, MELVIN (MP-3)
4-5
4-43
22-34
25-46
25-88
25-89

LEVINSON, LEONARD S. (CMB-8)
22-43
23-37
23-47
23-50

LEWIS, H. RALPH, JR. (CTR-6)
10-128
10-129
10-142

LEWIS, H. RALPH, JR. (Q-6)
10-8
18-45

LIBERMAN, IRVING (L-1)
20-88

LIEBENBERG, DONALD H. (L-DO)
3-15
3-22

LIEBENBERG, DONALD H. (L-DOT)
3-10
3-11
3-32
3-40
4-22
4-38
4-39
4-63

LIEBER, ALBERT (L-4)
19-12
19-14
20-44
20-93
20-121
20-165

LIER, DOUGLAS W. (J-14)
19-7

LILJENZIN, J. O.
25-193

LILJESTRAND, R. (MP-10)
22-2

LILLBERG, JOHN W. (CTR-3)
10-21

LIN, JUNG
25-66

LIN, R. P.
1-10

LIND, R. C.
20-162

LIND, V. G.
25-79

LINDMAN, ERICK L. (J-10)
10-63
10-91

LINDMAN, ERICK L. (T-6)
10-16
10-42
10-141
10-153
20-31
20-35
20-61
20-87
20-118
20-146
20-152
20-153
27-7

LINDSAY, JAMES D. G. (CTR-9)
8-1
8-10
8-12

LINFORD, RULON K. (CTR-7)
10-56
10-113
10-121
10-138
10-139

LIPSCOMB, JAMES F.
30-42

LISKA, DONALD J. (MP-9)
22-7
22-37

LITTLE, EDWARD M. (CTR-7)
10-77

LOBB, BETTY (SP-DO)
13-16

LOHE, MAX A.
21-15
21-76

LOIS, L.
28-15

LOMBARD, STEWART M. (H-8)
17-59

LONDON, JERRY E. (H-4)
5-43
5-125
5-128

LONDON, ROBERT E. (CNC-4)
5-17
5-106
14-6
14-11

LONDON, ROBERT E. (T-DO)
14-9
14-10

LONG, R. L.
16-4

LOREE, THOMAS R. (L-7)
20-5

LOUCK, JAMES D. (T-7)
21-15
21-76

LOUGHRAN, E. DAN (WX-2)
15-4
15-15

LOVOI, PAUL A. (P-9)
20-104
25-57
25-98
25-183

LOVOI, PAUL A. (P-DOR)
25-182

LOZITO, EDWARD J.
24-5

LUC, P.
2-28

LUDGEN, H. MICHAEL
8-34

LUDLAM, THOMAS
25-31
25-69
25-229
25-230

LUI, ANTHONY T. Y.
1-2
1-3
1-23

LUNDBERG, LYNN B. (Q-23)
11-6

LUNDY, ARVID S. (MP-3)
5-57

LUNSFORD, JAMES S. (E-3)
22-45
27-1

LYMAN, JOHN L. (L-3)
20-150

LYMAN, JOHN L. (L-8)
6-7
20-63
20-64

LYONS, PETER B. (J-14)
19-7
19-14
20-93
20-164

LYONS, WILLIAM C. (L-5)
30-12

LYSENKO, W.
22-3
22-24

MAC DONALD, JAMES L. (TD-6)
21-44
21-50

MAC FARLANE, ROBERT E. (T-2)
25-40
25-138
25-201
25-202

MAC FARLANE, ROBERT E. (T-2) ED.
25-13

MACEK, ROBERT J. (MP-7)
22-38

MACHALEK, MILTON D. (CTR-3)
10-117

MACHTA, LESTER
1-13

MACK, JULIAN E.
30-34

MACKLIN, R. L.
25-101

MADER, CHARLES L. (T-4)
15-9
15-17
15-18
23-45

MADSEN, LARRY C. (TD-2)
20-145

MAECK, WILLIAM J.
2-14
30-84

MAGEE, NORMAN H. (T-4)
3-23
4-31

MAIER, WILLIAM B., II (J-10)
4-4

MAIER, WILLIAM B., II (L-3)
4-17
4-54

MALANIFY, JOHN J. (A-1)
25-141
25-147
26-13
26-24
26-25

MALMBERG, ALLAN F. (T-7)
21-51

MALONE, ROBERT C. (T-6)
3-28
20-13
20-54
20-55

MALTRUD, H. RICHARD (L-4)
20-2

MANASSAH, JAMAL T.
25-29
25-30

MANLEY, JOHN H. (***)
30-55

MANN, JOSEPH B., JR. (T-4)
4-25
4-40
4-47
4-56

MANN, LAWRY W. (CTR-6)
10-18
10-130
10-136

MARAMAN, WILLIAM J. (CMB-11)
17-5
17-61
26-16

MARDER, BARRY M. (Q-6)
18-16

MARGRAVE, JOHN L.
12-14

MARKOWITZ, S. S.
25-131

MARLEY, WILLIAM G.
15-3

MARSH, SINCLAIR F. (CMB-1)
2-7
2-14
23-62
26-23

MARSH, STANLEY P. (M-6)
4-29

MARSHALL, DON A. (TD-3)
25-129

MARSHALL, JOHN, JR. (CTR-DO)
10-57

MARSHALL, THOMAS K. (CMB-1)
2-21
2-22

MARTIN, E. RAY (A-1)
26-1
26-9
26-10

MARTIN, JOHN C. (H-10)
5-5
5-7
5-8
5-19
5-20
5-41
5-67
5-75

MARTIN, WILLIAM B. (E-3)
19-6

MARTIN, WILLIAM W.
30-27

MARTINEZ, PAUL H. (E-2)
21-18

MARTINS, B. I.
5-14

MARTZ, HARRY F., JR. (C-5)
21-10

MARUYAMA, Y.
5-2
5-18

MASON, RODNEY J. (T-6)
20-12
20-51
20-54
20-116
20-119
20-120
20-149
20-159

MASON, RODNEY J. (TD-8)
20-68

MATHEWS, ROBERT W. (WX-3)
19-11

MATLACK, GEORGE M. (CMB-1)
2-9
7-3
17-42

MATUSKA, WALTER (J-15)
3-1

MATWIYOFF, NICHOLAS A. (CNC-4)
5-17
5-106
7-7
7-13
14-1
14-2
14-3
14-4
14-5
14-6
14-7
14-9
14-10
14-11

MAWARDI, OSMAN K. (Q-26)
8-11

MAYER, ANTON (CMB-6)
20-129

MC CALL, GENE H. (L-4)
20-15
20-23
20-86
20-89
20-100
20-154
20-165

MC CLARY, JOHN A.
21-62
30-90

MC CLURE, D. A.
25-66

MC CORMICK, J. BYRON (***)
13-3

MC CREARY, WILLIAM J. (CMB-6)
20-94
20-129

MC CRORY, ROBERT L. (T-6)
20-54
20-55
20-147
20-157
20-158

MC DANIELS, DAVID K.
25-98
25-192

MC DONALD, THOMAS E. (CTR-4)
8-14
10-108

MC DOWELL, ROBIN S. (CNC-3)
4-36
4-44
4-69

MC ELROY, M. B.
25-83

MC FARLAND, NORMA J. (J-9)
11-50

MC FARLAND, ROBERT D. (Q-22)
11-23
11-61

MC GETCHIN, THOMAS R. (Q-21)
11-8
11-29
11-34

MC GETCHIN, THOMAS R. (Q-21) COMP.
11-54

MC GIRT, A. FRANK (C-DO)
21-24

MC INROY, JAMES F. (H-5)
5-32
5-145

MC INTEER, BERTHUS B. (CNC-4)
7-13

MC KAY, MICHAEL D. (C-5)
12-15
21-14

MC KENNA, KENNETH F. (CTR-3)
10-36
10-60
10-68
10-69
10-101
10-110

MC KENNA, KENNETH F. (Q-3)
10-152

MC KIBBEN, JOSEPH L. (P-9)
21-65

MC KINSTRY, MARK L. (CTR-7)
10-77

MC KOWN, THOMAS O. (T-5)
25-55

MC LAUGHLIN, DONALD R. (CNC-4)
6-14

MC LAUGHLIN, THOMAS P. (A-5)
24-10
24-11
28-7
28-28
28-29
28-36

MC NAUGHTON, M. W.
25-6

MC NEESE, WILBUR D. (CMB-11)
17-5
17-10
17-61

MC QUEEN, ROBERT G. (M-6)
4-29

MEIER, KARL L. (P-14)
10-62

MENDELSOHN, LAWRENCE B.
4-25
4-56

MENG, CHING I.
1-3
1-19

MENIKOFF, RALPH (T-8)
21-8
21-70

MENLOVE, HOWARD O. (A-1)
26-1
26-2
26-3
26-6
26-9
26-12
26-24

MENZEL, JOERG H. (A-1)
26-21

MENZEL, MARY T. (CTR-6)
10-90

MENZEL, MARY T. (T-9)
25-20

MERTS, ATHEL L. (T-4)
3-23
4-31

MESSINA, R. J.
3-39

METROPOLIS, NICHOLAS C. (T-7)
21-7
21-61
21-68
21-73

METZ, CHARLES F.
23-2

METZGER, ALBERT E.
3-35

MEYER, EARL A. (MP-9)
22-39

MEYER, EARL A. (P-14)
10-62

MEYER, HANS O. (MP-3)
25-166

MEYER, PAUL
16-9
16-11

MEYER, STUART L. (E-3)
13-15

MICKLITZ, H.
4-40

MIDKIFF, WILLIAM S. (ENG-7)
13-2

MIGLIORI, ALBERT (Q-26)
8-29
8-52

MILICH, CHARLES P. (E-5)
21-69

MILLER, GERALD A. (T-5)
25-168
25-181
25-198
25-213

MILLER, GUTHRIE (CTR-3)
10-22
10-82
10-119
10-120
10-123

MILLER, JOHN H. (MP-3)
4-5
25-46

MILLER, WARREN F., JR. (T-1)
24-6
24-9

MILLS, CARROLL B.
30-83

MILLS, ROBERT L. (Q-26)
4-22
4-38
4-39
4-63
9-14

MINGLE, J. O.
21-55

MINOR, MICHAEL (P-2)
25-200

MIRANDA, GILBERT A. (CTR-9)
8-3
8-12

MISCHKE, RICHARD E. (MP-4)
25-58

MISCHKE, RICHARD E. (MP-4) COMP.
25-94

MITCHELL, C. R.
23-19

MITCHELL, KENNETH B. (L-1)
20-10
20-164

MITCHELL, ROBERT N. (H-5)
17-10
17-61

MITCHELL, ROBERT W. (T-6)
10-16

MJOLSNESS, RAYMOND C. (T-3)
18-10

MOHLER, RONALD R.
30-37

MOINSTER, M. A.
22-49

MOIR, DAVID C.
25-58

MOLINARI, A.
25-53

MONTANO, P. A.
4-40

MONTGOMERY, MICHAEL D. (P-4)
1-5
1-6
1-8
1-9
1-12
1-21
1-24
1-25

MOOK, DELO E.
3-39

MOORE, MICHAEL S. (P-11)
25-115

MOORE, MICHAEL S. (W-11)
25-130

MOORE, RICHARD L.
30-20

MOORE, ROGER H. (C-5)
11-11

MOORE, STANLEY W. (Q-54)
12-17
12-20

MOORE, STANLEY W. (Q-DOT)
12-21

MOORE, STANLEY W. (Q-DOT) COMP.
12-16

MOORE, TOM O. (H-5)
17-46

MORALES, RAUL (H-5)
17-14

MORAN, MICHAEL J.
20-57

MORGAN, JAMES R. (CMB-5)
23-14

MORGAN, LEON O. (CNC-4)
7-7
14-2
14-3
14-7

MORRIS, CHRISTOPHER L. (MP-10)
22-12
22-46

MORRIS, ROGER A. (M-1)
2-23

MORSE, RICHARD L. (T-6)
20-51
20-54
20-55
20-72
20-149
20-152

MORSE, RICHARD L. (T-DO)
10-16
20-13
20-140
20-141
20-144
20-157
20-158

MOSES, JOHN D. (P-3)
25-209

MOSKOWITZ, J. W.,(CMB-5)
4-7
4-41
4-59

MOSS, CALVIN E. (P-9)
25-72
25-183

MOSS, OWEN R. (H-8)
17-1

MOSS, WILLIAM D. (H-5)
17-41

MP DIVISION STAFF
22-29

MUELLER, BARBARA A. (CMB-5)
23-26

MUELLER, DELBERT D. (CNC-4)
14-6
14-11

MUELLER, DONALD W. (MP-9)
22-39

MUELLER, MARVIN M. (L-4)
20-11

MUIR, DOUGLAS W. (T-2)
10-2
23-28
25-40
25-187
25-188

MUIR, DOUGLAS W. (T-2) COMP.
25-14

MULFORD, ROBERT N. R. (CMB-5)
23-9
23-25
23-26

MULKIN, RAY (CMB-11)
30-11

MULLANEY, PAUL F. (H-10)
5-19
5-26
5-41
5-50
5-51
5-66
5-67
5-75
5-82
5-92
5-117

MULLANEY, PAUL F. (H-10) ED.
5-95

MULLER, JAMES F. (CMB-6)
23-17
23-61

MULLINS, W. T.
26-11

MURCRAY, WALLACE B.
1-15

MURRAY, HUGH S. (E-4)
12-7
12-12
21-39

MURRAY, SUZANNE T. (WX-3)
21-62

MYNATT, FRED R.
24-21

NACHAMKIN, JACK (E-DO)
27-4

NAGEL, D. J.
4-34
4-57
4-58

NAGLE, DARRAGH E. (MP-3)
5-93

NAGLE, DARRAGH E. (MP-DO)
25-58
25-154
25-156

NAKANO, G. H.
3-42

NASISE, JOSEPH E. (CMB-3)
13-18

NATOWITZ, J. B.
22-16
25-25

NAUMANN, ROBERT A. (CNC-11)
25-50
25-51

NEAL, TIMOTHY R. (M-2)
4-35
18-39

NEEDHAM, TERENCE E. (CNC-4)
14-9

NEGELE, JOHN W. (T-5)
25-44

NELSON, EDWARD C.
21-57
21-58

NELSON, GILBERT B. (CMB-1)
17-42

NERESON, NORRIS G. (L-7)
4-44

NETUSCHIL, JENNIE R. (CMB-1)
2-3

NEUDECKER, JOSEPH W.
30-88

NEWBERGER, BARRY S. (T-6)
10-61
20-131
20-140
20-141
20-144

NEWBERGER, BARRY S. (TD-8)
20-19
20-132

NEWELL, JAMES C. (C-4)
21-20

NEWELL, JAMES C. (C-6)
21-9
21-79
21-80

NEWFIELD, STEPHEN E. (CMB-6)
21-23

NEWKIRK, LAWRENCE R. (***)
23-34

NEWKIRK, LAWRENCE R. (CMB-3)
8-6
8-37

NEWNAM, BRIAN E. (L-2)
20-56

NEWTON, THOMAS W. (CNC-2)
7-10
7-11

NICHOLS, BILL D. (T-3)
18-47

NIELSEN, BENT S. (P-2)
25-67
25-68

NIELSEN, HANS C. S.
1-16
1-17
1-30

NIELSON, CLAIR W. (CTR-6)
10-52
10-53
10-87

NIELSON, CLAIR W. (Q-6)
10-8

NIETO, MICHAEL MARTIN (T-8)
3-24
25-21
25-22
25-174

NIGON, J. P.
7-14

NILL, KENNETH W.
20-49

NILSSON, B.
25-97

NISENOFF, M.
8-25
8-33

NISHITA, N.
11-11

NISLEY, RICHARD A. (T-2)
25-126

NIX, JAMES R. (T-9)
25-34
25-107
25-116
25-195
25-210

NORRIS, ANDREW E. (CNC-11)
25-8
25-193
25-207
27-2

NORTHCLIFFE, LEE CONRAD
25-132

NORTON, JOHN L. (T-3)
15-26

NOWAK, ANDREW V. (L-3)
20-14
20-150

NOYES, HORACE E. (SP-DO)
13-16

NUNNALLY, WILLIAM C. (CTR-4)
10-108

NUTTER, MURLIN J. (L-1)
20-134
20-155

NYHAN, JOHN W. (***)
2-24

NYHAN, JOHN W. (H-8)
5-49

O'BRIEN, HAROLD A., JR. (CNC-11)
5-85
5-98
5-135
5-138
7-15
22-8

O'DELL, R. DOUGLAS (T-1)
16-4

OGARD, ALLEN E. (CNC-11)
5-98
5-135
22-8

OGDEN, JOAN M.
10-25

OHLSEN, GERALD G. (P-9)
25-57
25-98
25-176
25-183

OHNUMA, S.
22-3

OKA, MELVIN S. (H-10)
5-54

OKINAKA, RICHARD (H-9)
5-64

OKUMURA, SHOJI
25-18

OLINGER, BARTON W. (M-6)
4-11
15-16

OLIPHANT, THOMAS A., JR. (CTR-7)
10-31
10-109

OLIPHANT, THOMAS A., JR. (T-3)
10-121
10-151

OLSEN, CLAYTON E. (CMB-8)
23-12
25-85
25-209

OLSEN, CLAYTON E. (J-5)
25-146

OLSEN, KENNETH H. (J-9)
11-50
11-51

OLSEN, T.
20-22

OLSON, N. J.
23-21

ORBESEN, STUART D. (P-9)
25-157
25-186
25-232

ORPHAN, RICHARD C.
30-2

ORTH, CHARLES J. (CNC-11)
22-50
25-8
25-207

ORTIZ, LAWRENCE W. (H-5)
17-1
17-4
17-7
17-60

ORTIZ, M. ROMAYNE (CMB-1)
2-7

ORTOLANI, SERGIO (CTR-2)
10-107
10-130
10-131

OSETEK, DANIEL J. (H-5)
17-32

OSTER, GEORGE F.
6-2

OTT, DONALD G. (H-11)
1-13
7-13
7-18
7-19
30-8

OTT, MARTIN A. (CNC-11)
25-90

OVERTON, WILLIAM C., JR. (Q-26)
8-13
8-25
8-32
8-35

OWENS, JAMES W. (H-8)
11-62

OYER, A. T.
25-59
25-113

OZER, ODELLI
25-180

P-DIVISION PERSONNEL
30-56

PACIOTTI, MICHAEL A. (MP-3)
5-142
5-143

PAINE, ROBERT T., JR. (CNC-3)
4-36

PAINE, ROBERT T., JR. (CNC-4)
7-16
7-21
9-27
14-12
14-13

PALMER, GENE C.
5-126

PALMER, IAN D.
1-11

PALMER, RONALD G. (T-DOT)
28-7
28-28

PARKER, JACK L. (A-1)
26-7
26-8
26-21
26-28

PARKER, JOSEPH R. (E-3)
22-7
22-33

PARKER, R. H.
3-35

PARKIN, DON M. (CMB-8)
8-30
8-31
10-84
10-154
23-15
23-16
25-26

PARKINSON, JOSEPH L. (WX-3)
15-10

PARTER, SEYMOUR V. (C-6)
21-60

PARTRIDGE, RALPH E., JR. (J-8)
21-78

PARTRIDGE, RALPH E., JR. (J-8) COMP.
21-41

PASTA, JOHN R. (T-3)
21-77

PATTERSON, JAMES H. (CMB-1)
17-42

PAVONE, DANIEL (CMB-5)
23-7

PAXTON, HUGH C. (A-5)
24-4
24-18
24-20

PAXTON, HUGH C. (R-5)
24-14

PAYNE, ROBERT J. (H-6)
5-3
5-59
5-132

PEACOCK, C. L.
25-43

PEEK, H. MILTON (J-10)
1-16
1-17

PEIERLS, RUDOLPH E.
15-7

PENDERGRASS, JOHN H. (L-5)
20-151

PENNEMAN, ROBERT A.
7-14

PENNEMAN, ROBERT A. (CNC-4)
7-9
7-17
9-26

PERELSON, ALAN S. (T-10)
5-105
6-2
6-16
21-12
21-13

PERKINS, PRISCILLA C. (CMB-13)
11-38

PERKINS, ROGER B. (P-DO)
25-126
25-140

PERROUD, J. P.
25-165

PERRY, DENNIS G. (***)
25-43

PERRY, DENNIS G. (CNC-11)
22-6
22-16
22-28
25-25
25-124

PETERSEN, DONALD F. (H-4)
5-10
5-11
5-56

PETERSEN, DONALD F. (H-9)
5-16
5-21
5-22
5-39
5-81

PETERSEN, DONALD F. (H-9) ED.
5-95

PETERSON, CHARLES L.
23-33

PETERSON, DEAN E. (CMB-5)
23-7

PETERSON, R. J. (MP-10)
22-55

PETERSON, RICHARD W.
10-47

PETROVIC, JOHN J. (CMB-5)
23-38

PETTITT, ROLAND A. (Q-22)
11-10
11-41
11-57
11-58

PETTY, ROY LEE (CMB-11)
28-6

PFEUFFER, GARY (MP-DO)
5-101
5-142

PHILLIPS, JAMES A. (CTR-6)
10-102

PHILLIPS, JAMES A. (CTR-DO)
10-18

PHILLIPS, JAMES A. (ENERGY OFF)
10-76

PHILLIPS, JOHN R. (CMB-1)
2-3
2-5
2-21
2-22
13-7
23-1

PHILLIPS, JOHN R. (Q-25)
13-12

PICKER, H. S.
25-37
25-38

PIERSON, GARY O.
11-18

PILKEY, WALTER D.
13-9

PILTCH, MARTIN S. (L-7)
20-96
20-125

PISTORIUS, C. W. F. T.
29-1

PITT, CHARLES
7-5

PLASIL, F.
22-16
25-25

PLASSMANN, EUGENE A. (A-5)
24-19

PLASSMANN, EUGENE A. (P-5)
24-5

PLATTS, D. A. (CTR-7)
10-113
10-138
10-139

PONCELET, C. G.
25-180

PONGRATZ, MORRIS B. (J-10)
1-32

POPOLATO, ALPHONSE (WX-3)
15-11

PORTER, RICHARD N. (CNC-4)
6-4

POSKANZER, A. M.
22-[illegible]
25-25

POST, RICHARD F.
10-45

POTTER, JAMES M. (MP-4)
25-218

POTTER, ROBERT M. (Q-22)
11-27

POWELL, BILLY W. (CMB-6)
20-129
23-63

POWELL, J. R.
10-19

PRACHT, WILLIAM E. (T-3)
18-3
18-37
18-50

PRATT, J.
25-64

PREEDOM, BARRY M.
25-231

PREEDOM, BARRY M. (MP-DO)
25-77

PRESTWOOD, RENE J. (CNC-11)
25-23
25-41

PRICE, W. G.
10-19

PRINE, JAMES R. (H-4)
5-84
5-94
5-125

PRITCHARD, JOHN A. (H-5)
17-46
17-56

PRUEITT, MELVIN L. (TD-4)
21-19

PUCK, THEODORE T. (H-4)
5-80

PURTYMUN, WILLIAM D. (H-8)
11-24
11-49
11-62
11-63

QUINN, WARREN E. (CTR-3)
10-117
10-119
10-122
10-123
10-150

QUINTANA, JOHNNY N. (CMB-1)
2-3

QUIST, T. C.
25-43

RABIDEAU, SHERMAN W. (CNC-2)
20-14

RABIDEAU, SHERMAN W. (CNC-3)
4-32

RACHFORD, F. J.
8-25
8-33

RADZIEMSKI, LEON J., JR. (CMB-1)
2-15
2-28

RAFF, LIONEL M. (CNC-4)
6-1
6-4
6-13
6-15

RAGAINI, RICHARD C.
25-185

RAGAN, CHARLES E. (P-3)
25-135
25-136

RAICH, JOHN C.
4-60
29-4

RAJU, MUDUNDI R. (***)
5-14

RAJU, MUDUNDI R. (H-10)
5-1
5-5
5-13
5-30
5-113
5-139

RAJU, MUDUNDI R. (H-4)
5-12

RAJU, MUDUNDI R. (H-9)
5-2
5-18

RALL, STANLEY C. (H-9)
5-110

RAMAN, S.
25-65
25-66
25-220

RAMSAY, JOHN B. (M-3)
11-18

RANKEN, WILLIAM A. (Q-25)
9-19
12-9
13-12
30-51

RAPPAPORT, STEPHEN M. (H-5)
17-14

RATLIFF, ROBERT L. (H-9)
5-40
5-47
5-91
5-130

REAGAN, J. B.
3-42

REBKA, G. A.
25-59
25-113

REDISH, EDWARD F.
25-37

REED, WILLIAM H. (T-1)
24-9

REEDY, ROBERT C. (CNC-11)
3-18
3-35

REICHELT, WALTER H. (L-1)
20-21
20-92
20-98

REID, JOHN B., JR. (Q-21)
11-28
11-39

REIDY, JAMES J.
5-146
22-34
22-54

REILLY, T. DOUGLAS (A-1)
26-7
26-8
26-11
26-20
26-21
26-28

REIN, JAMES E. (CMB-1)
2-7
2-14
26-23

REINES, FREDERICK
30-54
30-63

REISWIG, ROBERT D. (CMB-8)
22-43
23-41
23-42
23-47
23-50

REMSBERG, L. P.
22-16

REMUND, ROBERT N. (T-6)
20-158

REUPKE, WILLIAM A. (T-2)
25-36
25-40

REVOIR, WILLIAM H. (H-5)
17-29
17-46
17-56

RIBE, FRED L. (CTR-DO)
10-11
10-44
10-45
10-109
10-146
10-148

RIBE, FRED L. (CTR-DO) COMP.
10-70

RICE, CHARLES N.
2-17

RICE, WALTER W. (L-3)
20-91

RICE, WALTER W. (L-8)
20-90

RICH, MARVIN (TD-3)
27-6
27-16
27-17

RICHARDS, CHARLES P. (H-5)
17-29
17-46
17-56

RICHMAN, CHAIM (H-10)
5-37
5-38

RICHMOND, CHESTER R. (H-DO)
5-33
5-48
5-78
5-114
5-128

RICHMOND, CHESTER R. (H-DO) ED.
5-95

RICHTMYER, ROBERT D.
*a)-79

RICHTMYER, ROBERT D. (CTR-6)
21-74

RICHTMYER, ROBERT D. (T-7)
21-26

RICHTMYER, ROBERT D. (T-7) ED.
18-32

RICKEY, MARTIN
22-55

RIEGER, E. R.
1-17

RILEY, P. J.
25-132
25-134

RILEY, ROBERT E.
23-5

RILEY, ROBERT E. (CMB-6)
23-56

RINAT, AVRAHAM S. (T-5)
25-139

RINK, JOHN P. (L-7)
20-17
20-63
20-64
20-125

RINKER, GEORGE A., JR. (P-DOR)
4-27
4-28
4-47
22-13
25-44
25-125
25-228

RISTINEN, R. A.
22-55

RITTER, ENLOE T. (P-2)
25-125
25-126

RIVARD, WILLIAM C. (T-3)
18-11
18-26
18-41
18-52

RIVERA, OLIVER M. (MP-3)
5-142

ROACH, WILLIAM H. (J-10)
1-30
24-16

ROBERTS, JAMES H.
17-54

ROBINSON, ARTHUR
5-80

ROBINSON, C. PAUL (L-3)
20-41

ROBINSON, C. PAUL (L-DO)
20-62
20-63
20-64
20-78

ROCHE, CHARLES T.
25-200

ROCK, GLENN W.
21-46

ROCKWOOD, STEPHEN D. (L-8)
20-63
20-64
20-69
20-75

ROEDER, DENNIS L. (MP-7)
5-46
22-21
22-36

ROEDER, S. B. W. (CNC-4)
14-13

ROEDER, S. W. B. (CNC-4)
14-12

ROFER-DE POORTER, CHERYL K. (L-5)
20-1
20-113

ROGERS, BENJAMIN T. (Q-24)
12-2
12-4
12-20

ROGERS, HAROLD H. (TD-2)
20-145

ROGERS, JOHN D., JR.
30-91

ROGERS, JOHN D., JR. (CTR-9)
8-1
8-3
8-12

ROGERS, JOHN D., JR. (CTR-9) COMP.
8-40

ROGERS, MARGARET ANNE (H-8)
11-14

ROGERS, PAMELA S. Z. (CMB-8)
11-2

ROGERS, RAYMOND N. (WX-2)
15-15
15-27

ROHR, DANA L. (CMB-5)
23-22
23-26

ROHRER, DAVID M. (***)
30-77

ROMERO, ANGELA (H-10)
5-5
5-8
5-19

ROMERO, NICK C. (T-3)
18-2
18-33
18-47

ROOF, RAYMOND BRADLEY, JR. (CMB-5)
9-7
9-10
9-19
9-25
29-1

ROSE, DONALD G. (ENG-7)
27-2

ROSEN, LOUIS (MP-DO)
5-15

ROSENBLUM, STEPHEN S. (Q-26)
8-57
25-61
25-85
25-108

ROSENZWEIG, ABRAHAM (CNC-4)
9-20

ROSS, BEVERLY J.
21-68

ROSS, RANDY R.
3-4

ROTA, GIAN-CARLO (C-DO)
21-68

ROUSE, PRINCE E., JR. (WX-2)
4-48

ROWLAND, F. S.
2-18
25-179

ROWLEY, JOHN C. (Q-23)
11-45

ROWLEY, JOHN C. (Q-DO)
11-48

RUCH, WALTER E.
17-50

RUDSINSKI, LAWRENCE E. (C-3)
10-144
21-32

RUPP, T.
25-64

RUPPEL, HANS M. (T-3)
3-17
15-26
18-12
18-17
18-21
18-46

RUSCH, THOMAS W. (CMB-8)
9-11

RUSSELL, GARY J. (P-11)
25-121
25-208
28-3

RYAN, ROBERT R. (CNC-4)
7-1
9-6
9-12
9-13
9-18
9-20
9-26
9-27

RYCROFT, M. J.
1-32

SABRI, Z. A.
10-29
10-125

SAGLE, A. L.
25-6

SALMI, ERNEST W. (ADWP-2)
18-7

SALZMAN, GARY C. (H-10)
5-7
5-8
5-19
5-20
5-41
5-50
5-51
5-66
5-67
5-75
5-117
25-98

SANDENAW, THOMAS A. (CMB-8)
8-4
29-2

SANDERS, PHYLLIS C. (H-9)
5-39

SANDERS, WILLIAM MORT (H-6)
5-109
5-132

SANDERS, WILLIAM MORT (J-12)
3-15
3-22

SANDFORD, MAXWELL T. (J-10)
18-19
18-54
18-56
19-17

SANDOVAL, RICHARD R. (ADWP-2)
30-17
30-41
30-52

SANDSTROM, DONALD J. (CMB-6)
23-10
23-27

SAPIR, JOSEPH L.
30-59

SARGENT, M.
20-79

SATTIZAHN, JAMES E., JR.
30-73
30-74
30-75

SAUNDERS, GEORGE C. (H-6)
5-3
5-77
5-123
5-132
5-133

SAWYER, GEORGE A. (CTR-DO)
10-12

SCHAEFFER, RILEY (CNC-4)
9-6

SCHAPPERT, GOTTFRIED T. (L-1)
20-4
20-8
20-46
20-97
20-98
20-114
20-134
20-155

SCHELBERG, ARTHUR D. (J-16)
25-223

SCHELONKA, EDWARD P. (E-6)
13-1

SCHENTER, R. E.
16-5
25-63
25-142

SCHERMER, ROBERT I. (Q-26)
8-16
8-26
8-27
8-28

SCHERR, LAWRENCE M. (TD-4)
18-28

SCHIAGER, KEITH J. (H-8)
17-34

SCHILLACI, MARIO E. (MP-3)
5-46
22-50

SCHNEIDER, BARRY (T-6)
4-9
4-52
4-53

SCHNEIDER, J. DAVID (P-14)
10-62

SCHNEIDER, RICHARD T.
20-26

SCHOFIELD, ALDRED E. (CTR-2)
10-18
10-102
10-131

SCHOFIELD, ALDRED E. (CTR-4)
10-76

SCHOTT, GARRY L. (L-3)
20-14
20-110
20-124

SCHRANDT, ROBERT G. (TD-6)
21-47
21-48

SCHREIBER, RAEMER E.
30-62

SCHROEDER, CHRISTIAN F.
15-3

SCHUCH, ADAM F. (Q-26)
8-13
8-32
9-14

SCHULTE, HARRY F. (ENERGY OFFICE)
17-47

SCHULTE, HARRY F. (H-5)
5-145
17-41
17-44

SCHUSTER, BURTON G. (H-5)
1-31
17-32

SCHWARTZ, THOMAS R. (M-3)
18-48

SCOTT, C. KEITH (T-5)
25-109

SCOTT, J. F
20-79

SCOTT, THEA
5-26
5-69

SCULLY, MARLAN O.
20-133

SEABORG, GLENN T.
25-193

SEAGRAVE, JOHN D. (P-DOR)
5-112
25-225

SEALE, ROBERT L.
30-64

SEAMON, ROBERT E. (TD-6)
24-3

SEDLACEK, WILLIAM A. (CNC-11)
1-1
1-29

SEED, THOMAS J. (T-1)
24-22

SEEGER, PHILIP A. (P-11)
4-61
25-121
25-208

SEIBEL, FREDERICK T. (CTR-8)
10-95

SELSING, ERIK
5-47

SETSER, DONALD W.
6-6

SETTLE, MARK
11-8

SGRO, ANTHONY G. (CTR-6)
10-52
10-53

SHAFFER, HOWARD C.
30-14

SHAMAI, Y.
22-49

SHANAHAN, WILLIAM R. (T-6)
20-85
20-87

SHANNON, JOHN
20-135

SHAPIRO, MAURICE M.
15-12

SHAPIRO, STANLEY L. (L-2)
5-58
5-63
5-68
5-111
20-143
20-161

SHARP, DAVID H. (T-8)
21-8
21-70
25-171
25-226

SHE, CHIAO-YAO
20-57

SHEA, T. E.
26-14

SHEINBERG, HASKELL (CMB-6)
20-43
23-8

SHELINE, RAYMOND K.
25-5

SHERA, E. BROOKS
25-125

SHERA, E. BROOKS (P-2)
25-114
25-125
25-126
25-127

SHERBY, OLEG D. (WX-5)
23-32

SHERMAN, JOSEPH (P-9)
25-5
25-9
25-28
25-32
25-72
25-157
25-186

SHERMAN, LAWRENCE M. (L-7)
20-5

SHERMAN, MAX A. (***)
23-64

SHERMAN, MAX A. (CMB-8)
23-29

SHERMAN, ROBERT H. (Q-26)
25-165

SHERMAN, RUTH J. (CNC-3)
4-69

SHERWOOD, ARTHUR R. (CTR-5)
10-57
10-114

SHIPLEY, JAMES P., JR. (E-4)
27-1

SHIPLEY, JAMES P., JR. (E-DOR)
12-3
21-4

SHIPMAN, THOMAS L.
5-70
5-71
5-72
5-73

SHIVELY, FRANK T. (MP-4)
25-59
25-113
25-165

SHONK, CARL R.
5-136
5-139

SHREFFLER, ROBERT G. (DOS-1)
30-41
30-52
30-58

SHREFFLER, ROBERT G. (DOS-1) COMP.
30-57

SHULTIS, J. KENNETH
21-55

SIEMON, RICHARD E. (CTR-3)
10-21

SIEMON, RICHARD E. (CTR-8)
10-95
10-99

SIERK, ARNOLD J. (T-9)
10-38
24-2
25-34
25-107
25-116
25-210

SIGMAR, D. J.
10-24

SILBAR, RICHARD R. (T-5)
25-2
25-54
25-131
25-148
25-189
25-190
25-203
25-205

SILBERT, MYRON G. (P-3)
25-84
25-122
25-135
25-136
25-223

SILVER, RICHARD N. (T-6)
27-9
27-10
27-18

SIMMONS, EARL L. (T-1)
10-86

SIMMONS, JAMES E. (P-DOR)
25-132
25-206

SIMMONS, LEONARD M. (T-DO)
25-123

SIMMONS, MARGARET L. (CMB-8)
22-18

SIMONSIC, GARY A. (CMB-6)
20-66
20-129
23-63

SINGER, PAUL
25-71
25-155

SINGER, SIDNEY (L-1)
3-3
19-6
20-84
20-88
20-114

SKOBERNE, FREDERICK (L-DO) COMP.
20-80

SKOBERNE, FREDERICK (N-DO) COMP.
30-69

SKYRME, TONY H. R.
23-52

SLANSKY, RICHARD C. (T-8)
22-35
25-31
25-69
25-229
25-230

SLATER, DONALD (MP-10)
22-51

SLAUGHTER, G. G.
25-65
25-66

SLEMMONS, DAVID B. (DIR OFF)
11-15

SMILEY, WILLIAM G.
2-10

SMITH, A. J.
1-32

SMITH, CYRIL S.
23-53
23-54

SMITH, DARRYL B. (***)
26-14

SMITH, DARRYL B. (A-1)
26-2
26-22

SMITH, DAVID R. (A-5)
13-16

SMITH, JAMES L. (CMB-5)
23-35
23-36

SMITH, JIMMIE H. (***)
21-31

SMITH, LOUIS C. (WX-2)
15-1

SMITH, MORTON C. (CMB-13)
23-49

SMITH, MORTON C. (Q-22)
11-13
11-20
11-22
11-27
11-42
11-43

SMITH, PAUL D. (***)
13-9

SMITH, PHILLIP R.
13-19

SMITH, W. JOHN (H-8)
30-24

SMITH, W. S.
25-179

SNEAD, C. L., JR.
23-15
23-16

SNOW, EDWARD C. (CMB-5)
17-52
17-53

SOBOTTKA, STANLEY (MP-10)
19-3

SOLLID, JON E. (L-1)
19-8
20-115

SOMMER, WALTER F. (P-11)
25-208

SORAN, PATRICK D. (T-1)
21-34

SORAN, PATRICK D. (TD-6)
25-39

SPALDING, JOHN F. (H-4)
5-83
5-125
5-134

SPARROW, D. A.
25-203

SPENCER, JAMES E. (MP-10)
22-2
22-9
25-168
25-181
25-198
25-213

SPRINGER, KLAUS (MP-DO)
22-54

SPRINGER, THOMAS E. (E-4)
6-8

STACEY, W. M., JR.
24-21

STACK, FRANCIS E.
30-45

STAFFORD, RONALD G. (H-1)
17-5
17-10
17-61

STAMATELATOS, MICHAEL G. (T-2)
16-2
16-3
25-159

STAPLETON, ROBERT E. (L-1)
20-33

STARITZKY, EUGENE
9-16

STARK, EUGENE E. (ADR)
10-60

STARK, EUGENE E. (ENERGY OFFICE)
17-23

STARK, EUGENE E. (L-1)
20-21
20-92

STARK, WALTER A., JR. (CMB-3)
2-12
11-7

STARKOVICH, VICTOR S. (A-DOT)
28-28

STARNER, JOHN W. (P-2)
25-68

STARNER, JOHN W., JR. (CMB-8)
6-11

STEDINGER, JERY P. (ADWP-2)
12-5

STEFFEN, ROLF M. (P-DOR)
4-28
25-126
25-127

STEIN, LELAND R. (T-3)
18-49

STEIN, MYRON L. (C-4)
21-60

STEIN, MYRON L. (C-7)
21-53

STEIN, NELSON (P-9)
25-5
25-9
25-28
25-32
25-157
25-231

STEIN, PAUL R. (C-6)
21-60

STEIN, WILLIAM E. (P-DOR)
28-28

STEINER, D.
10-19

STEINHAUS, DAVID W. (CMB-1)
19-16

STEINKAMP, JOHN A. (H-10)
5-7
5-8
5-92
5-103
5-116
5-118

STEPHANI, LINDA M. (T-3)
18-30

STEPHENS, MELVIN M. (A-1)
26-27

STEPHENS, MELVIN M. (R-1)
26-26

STEPHENSON, DWIGHT L. (E-5)
21-69

STEPHENSON, GERARD J., JR. (T-5)
22-14
22-15
22-35
22-41
25-12
25-27
25-37
25-38
25-52
25-55
25-56
25-95
25-119
25-169
25-170
25-172

STERNHAGEN, C. J.
5-5
5-81

STERNHEIM, MORTON M.
25-54
25-131
25-203
25-205

STEVENS, RALPH R., JR. (MP-9)
21-65
22-39

STEVENSON, MICHAEL G. (T-1)
28-28

STEWART, LEONA (T-2)
25-227

STEWART, ROBERT F.
9-21

STEWART, WALTER F. (Q-26)
8-34
12-1

STEYERT, WILLIAM A., JR. (Q-26)
8-57
25-61
25-85
25-108
25-146

STIEFF, L. R.
26-11
26-20

STILES, GARDINER S. (P-4)
1-15

STODDARD, STEPHEN D. (CMB-6)
23-3

STOKES, RICHARD H. (P-12)
27-3

STOLER, PAUL
25-225

STORM, ELLERY
30-7

STORM, ELLERY (H-1)
25-62

STORMS, EDMUND K. (CMB-3)
9-1
9-2

STRATTON, THOMAS F. (L-1)
20-10
20-70
20-92

STRATTON, WILLIAM R.
30-36

STRAUB, GALEN K. (TD-4)
23-43

STREETMAN, J. ROBERT
28-24

STRNISTE, GARY F. (H-9)
5-110

STRONG, IAN B. (P-4)
3-7
3-12
3-16
3-26
3-30
3-31
3-38
3-42
3-47

STRUEBING, VERNON O. (CMB-5)
14-8
23-40

STRUVE, HORTON
25-102

STUBBLEFIELD, ELTON
5-65

STUPIN, DAVID M.
25-98
25-148

STUPIN, DAVID M. (L-4)
20-126

SU, H. Y.
6-1

SUDAN, RAVINDRA N.
20-117

SUGISAKI, KIWAMU (CTR-3)
10-96

SULLIVAN, J. AL (L-6)
20-41

SULLIVAN, JOHN H. (CNC-2)
6-9

SULLIVAN, JOHN H. (CNC-4)
6-5
6-11

SUNIER, JULES W. (P-9)
25-5
25-9
25-28
25-32
25-157
25-186

SUTHERLAND, C. DEXTER (J-10)
4-4
6-3
7-2
18-8
18-22

SUTPHIN, HOWARD D. (L-4)
5-68
19-12
20-77
20-93
20-121

SUTTON, JOHN (E-3)
27-1

SUYDAM, BERGEN R.
30-81

SUYDAM, BERGEN R. (T-7)
20-29
20-136

SUZUKAWA, HENRY H., JR. (CNC-4)
6-13
6-15

SVITRA, ZITA V. (H-10)
5-7

SWAIN, GEORGE R. (MP-9)
22-19

SWANNACK, CLARKE E. (CTR-9)
8-1
8-12
8-45
10-116

SWANSEN, JAMES E. (R-1)
26-26

SWANSON, BASIL I. (CNC-4)
4-50
9-18

SWANSON, GERALD C. (CMB-1)
2-4
2-19

SWANSON, RICHARD E. (T-4)
18-34
23-44
23-45

SWARTZ, BLAIR K. (C-6)
21-33

SWARTZ, BLAIR K. (T-7)
21-17

SWEEDLER, A. R.
8-30
8-31

SWENSON, DONALD A. (***)
25-18

SWENSON, L. W.
25-98

SYDORIAK, STEPHEN G. (Q-26)
20-45

SYMON, KEITH R. (CTR-6)
10-92

SZKLARZ, EUGENE G. (CMB-3)
8-6
9-2

TABAKIN, FRANK
25-45

TABOR, JAMES E. (J-15)
3-1
4-10

TAGGART, KEITH A. (T-6)
10-61
20-131
20-132
20-158

TALBERT, W. L., JR.
13-17
25-149

TALLERICO, PAUL J. (MP-8)
22-23

TALLMAN, CHARLES R. (L-6)
26-125

TAN, TAI HO (L-4)
20-23
20-89
20-154

TANABE, KOSAI (MP-DO)
25-164

TAUB, JAMES M. (CMB-6)
23-56

TAUB, JAMES M. (CMB-DO)
28-16
30-80

TAYLOR, DAVID J. (L-2)
20-137

TAYLOR, GENE W. (WX-2)
6-6
28-23

TAYLOR, JAMES F. (Q-26)
8-36

TAYLOR, JOHN W. (M-2)
23-13

TAYLOR, R. DEAN (Q-26)
8-8
8-29
8-42
8-52
8-60

TAYLOR, R. DEAN (Q-26) COMP.
8-23
8-24
8-38
8-58
8-59

TAYLOR, WILLIAM M. (TD-6)
21-28
21-47
21-48
25-135

TELLER, EDWARD
30-63

TERRELL, JAMES (L-2)
3-5
3-25
3-37

TESTER, JEFFERSON W. (Q-22)
10-46

THIESSEN, HENRY A. (MP-10)
19-3
22-9
22-12
22-46
22-51
22-55

THODE, LESTER E. (T-6)
10-9
20-18
20-59
20-85
20-117

THOMAS, HENRY C.
25-102

THOMAS, KEITH S. (CTR-7)
10-56
10-137
10-138
10-139

THOMAS, R. A
5-81

THOMAS, RANDI L. (H-DO)
5-114

THOMAS, ROBERT G. (H-4)
5-94
5-128

THOMAS, SCOTT J (L-1)
20-4
20-114

THOMASON, MICHAEL D. (MP-10)
22-51

THOMASSEN, KEITH I. (CTR-7)
10-30
10-31
10-109

THOMASSEN, KEITH I. (CTR-DO)
10-55
10-116
10-147

THOMASSEN, KEITH I. (CTR-DOT)
10-121

THOME, F. V.
8-7

THOMEE, VIDAR
21-27

THOMPSON, DONALD L. (CNC-4)
6-1
6-4
6-12
6-13
6-14
6-15

THOMPSON, PATRICK A. (MP-10)
25-137
25-178

THOMPSON, PATRICK A. (MP-7)
22-3
22-17
22-24

THOMPSON, RICHARD H. (T-5)
25-117
25-128

THOMPSON, WILLIAM L. (TD-6)
21-47
21-48

THOMS, J. I.
26-11

THOMSON, DAVID B. (P-3)
4-1
10-6
10-49
10-64

THORN, LORRAINE E. (CMB-1)
2-8

THORNE, JAMES M. (L-7)
20-5

THROOP, M. J.
25-98

TIERNEY, MARTIN S. (J-10)
4-26
4-68
18-8
18-22

TIETJEN, GARY L. (C-5)
5-83
21-46

TKACHUCK, RICHARD D.
14-4
14-5

TOBEY, ROBERT A. (H-4)
5-10
5-11

TOBEY, ROBERT A. (H-9)
5-1
5-6
5-23
5-24
5-25
5-26
5-27
5-28
5-42
5-53
5-54
5-69
5-127
5-130
5-131
5-144

TOBIAS, C. A.
5-14

TODD, BILLY E. (Q-22)
11-59

TODD, PAUL (H-10)
5-74
5-136
5-139

TOENJES, ROBERT B. (Q-DO)
12-11

TOMBRELLO, T. A.
10-38

TOPPEL, B. J.
24-21

TORREY, MARTIN D. (T-3)
18-26

TRAVIS, JOHN R. (T-3)
11-30
18-29

TRELA, WALTER J. (ENERGY OFF)
8-44
12-8

TROMBKA, JACOB I.
3-35

TRUITT, ARTHUR L.
9-16

TRUJILLO, PATRICIO E., JR. (H-5)
17-2
17-12

TRUJILLO, THEODORE T. (H-10)
5-13
5-19

TRUOL, P.
25-165

TRUSSELL, HENRY J. (C-8)
5-55

TUBIS, ARNOLD
25-155

TUCK, JAMES L. (***)
12-22

TURCHI, PETER J.
15-29

TURKEVICH, ANTHONY L.
1-13

TURKEVICH, ANTHONY L. (MP-DO)
25-93

TURNER, G. DAVID (TD-6)
21-47
21-48
28-36

TURNER, LEAF (CTR-6)
10-128
10-129

TURNER, ROBERT D. (Q-26)
8-26
8-27
8-28

TURNER, WILLIAM C. (Q-23)
11-60

ULAM, STANISLAW M.
21-53

ULAM, STANISLAW M. (T-8)
21-77

UMBARGER, C. JOHN (A-1)
26-7

UMBARGER, C. JOHN (H-1)
30-46
30-47

USHAKOVA, I. M.
7-6

VAKAR, ANNA (ISD-4) TRANS.
21-45

VALENCIA, FLAVIO A. (***)
23-34

VALENCIA, FLAVIO A. (CMB-3)
8-6
8-37

VALENTINE, ALLEN M. (H-1)
17-8
17-9
17-15
17-62
30-18

VAN DER WERF, S.
25-24

VAN DILLA, MARVIN A. (H-4)
5-56

VAN DYCK, OLIN B. (MP-7)
22-21
22-36
25-75

VAN HULSTEYN, DAVID B. (L-4)
20-165

VANDERBORGH, NICHOLAS E.
2-21
2-22

VANDERBORGH, NICHOLAS E. (CMB-1)
23-1

VARNUM, WILLIAM S. (TD-2)
20-34

VASYLIUNAS, VYTENIS M. (P-4)
1-14

VEESER, LYNN R. (P-3)
25-49
25-112
25-175
25-208

VENABLE, ISAAC B.
23-39

VENKATESAN, D.
1-2
1-23

VERGAMINI, PHILLIP J. (CNC-4)
7-20
14-1

VIER, DWAYNE T. (CMB-3)
23-58

VIOLA, VICTOR E., JR.
25-200

VISSCHER, WILLIAM M. (T-9)
27-6
27-13
27-16
27-17

VOELZ, GEORGE L. (H-DO)
5-121
5-147

VOGEL, HERBERT F. (E-2)
22-3

VOGEL, HERBERT F. (E-DOR)
19-15

VOGELSANG, W. F.
10-19

VON DREELE, ROBERT B.
9-8
9-15

VON OERTZEN, W.
25-217

WABER, JAMES T.
9-3

WABER, JAMES T. (***)
4-55

WACKERLE, JERRY D.
30-28

WACKERLE, JERRY D. (WX-7)
15-6
15-22
15-25

WADA, J.
20-162

WAGNER, GENEVIEVE F.
30-75

WAGNER, L. K.
25-126
25-127

WAGNER, PAUL (CMB-8)
23-[illegible]
23-42
23-65
28-13

WAHMAN, LYLE A. (CMB-8)
23-41
23-42

WALKER, R. L.
26-11

WALLACE, TERRY C. (CMB-3)
7-24
8-6
8-37
22-43
23-47
23-50

WALLER, RAY A. (C-5)
21-10
21-46

WALTERS, RONALD A. (H-9)
5-1
5-27
5-45
5-62
5-91
5-119
5-127
5-130
5-131

WALTON, RAY D., JR.
30-78

WALTON, RODDY B. (A-1)
26-7
26-11

WANEK, PATSY L. (H-10)
5-50

WANG, DAVID NIN-KOU
7-5

WARD, J. F.
20-32

WARD, JOHN W (CMB-5)
4-21

WARNER, CHARLES L. (H-7)
30-92

WARNER, NOEL L.
5-141

WARREN, JOHN LAWRENCE (H-7)
17-62
30-93

WASHBURN, BEVERLY W. (***) ED.
19-9

WASHBURN, BEVERLY W. (L-1) ED.
19-1

WATERBURY, GLENN R.
23-11

WATERBURY, GLENN R. (CMB-1)
2-3
2-4
2-8
2-21
2-22
2-25
17-42
23-1
26-23

WATERBURY, GLENN R. (CMB-1) COMP.
17-20
17-21
17-22
17-45

WATSON, BOBBY
3-1'
3-32
3-40

WATSON, CLAYTON W.
28-24
30-49

WATSON, W. H.
7-4

WEBB, CLINTON B. (L-4)
19-12
19-14
20-93

WEBER, JOSEF (CNC-11)
16-7
16-8
25-1
25-3
25-86
25-111

WEEKS, ROBERT W. (H-5)
17-14
17-57

WEERTMAN, JOHANNES (CMB-8)
23-57

WEIHOFEN, WILLIAM H. (T-9)
27-15

WEINBECK, R. S.
25-149

WEINSTOCK, H.
8-13
8-32

WEINSTOCK, H. (Q-26)
8-35

WEISS, PAUL B. (L-1)
20-10
20-50

WEITZNER, HAROLD (CTR-6)
10-27

WELDON, DAVID M. (CTR-9)
8-1
8-12
10-116

WELLNITZ, BEVERLEY A. (TD-4) COMP.
30-35

WELLS, J. C., JR.
25-65
25-66

WENDROFF, BURTON (C-6)
21-59

WENDROFF, BURTON (T-7)
21-7
21-27
21-56
21-75

WENZEL, WALTER J. (H-DO)
17-6

WERBECK, RICHARD D. (MP-7)
22-38
25-75

WESCOTT, EUGENE M.
1-16
1-17
1-30

WEST, FRANCIS G. (Q-22)
11-10
11-19
11-24

WEST, GARY
5-136
5-139

WEST, GEOFFREY B. (T-5)
4-16

WEST, GEOFFREY B. (T-8)
25-110

WESTON, LAWRENCE W.
25-151
25-152
25-212

WEWERKA, EUGENE M. (WX-2)
15-4
15-15

WHALEY, THOMAS W. (H-11)
7-18
7-19
7-20

WHAN, GLENN A.
16-4

WHEAT, LLOYD D. (H-5)
17-29
17-46
17-56

WHEELER, MERLIN L. (H-8)
30-24
30-93

WHICKER, F. WARD
5-34
30-10
30-42

WHITE, JOHN MICHAEL (CNC-4)
6-1
6-4

WHITE, RALPH W. (CMB-3)
23-41

WHITE, RALPH W. (CMB-8)
23-42

WHITE, ROGER H. (A-5)
24-19

WHITLOCK, R. R.
4-57
4-58

WHITTEMORE, NADINE L. (T-2)
16-5
28-5

WHITTY, WILLIAM J. (H-8)
30-24

WIENKE, BRUCE R. (T-1)
18-4
18-20
18-24
18-36
18-40
22-11
25-42
27-14

WIGGINS, P. F.
2-6
11-3
25-216

WILCZYNSKI, R.
28-5

WILETS, LAWRENCE
4-27
22-13
25-228

WILHELMY, JERRY B. (CNC-11)
16-7
16-8
25-1
25-3
25-41
25-86
25-111

WILKENING, MARVIN H.
11-44

WILLARD, H. B.
22-5
22-52

WILLIAMS, ARTHUR H. (L-4)
20-23
20-36
20-89
20-154

WILLIAMS, CURTIS A.
5-120

WILLIAMS, JOEL M. (CMB-8)
15-4
22-43
23-6
23-30
23-47
23-50

WILLIAMS, R. J.
7-4

WILLIAMS, ROBERT A. (CNC-11)
25-8
25-207

WILLIAMSON, KENNETH D., JR. (CMF-9)
8-18

WILLIAMSON, KENNETH D., JR. (CTR-9)
8-15
8-34
8-45

WILLIAMSON, KENNETH D., JR. (CTR-9) COMP.
8-40

WILLIAMSON, KENNETH D., JR. (Q-26)
8-36

WILSON, JULIE S. (H-4)
5-33
5-43
5-84
5-128

WILSON, MAHLON T. (MP-7)
13-8
13-13
22-22

WILSON, WILLIAM B. (T-2)
25-36
25-40
25-215

WINBURN, DUANE C. (L-DO)
17-51

WING, G. MILTON (***)
21-43

WINKLER, MAX A. (M-1)
20-126
21-20
21-79
21-80

WINN, KENNETH R. (L-2)
20-77

WINNINGHAM, J. DAVID
1-30

WINSKE, DAN (CTR-6)
10-40
10-88
10-89

WIPF, STEFAN L. (Q-26)
8-39
8-41

WITTE, KATHLEEN H. (C-3)
25-120

WOHLBERG, CORNEL (H-7)
2-26

WOHLFAHRT, HANS D.
25-126

WOHN, F. K.
13-17
25-149

WOLF, S. A.
8-25
8-33

WOLFE, DAVID M.
22-27
25-64

WOLFSBERG, KURT (CNC-11)
16-10

WOLTZ, FRANK E.
26-20

WOOD, GERRY O. (H-5)
17-13
17-39

WOOD, JOHN H. (CMB-5)
4-7
4-23
4-41
4-59

WOOD, WILLIAM W. (T-DOT)
18-5
18-6

WOODARD, R.
1-29

WOODBRIDGE, D. D.
30-77

WOODS, JEFF A.
11-39

WOODS, RICHARD (P-9)
25-157

WORLTON, WILLIAM J. (C-DO)
21-24
21-25

WORMAN, FREDERICK C. V.
30-33

WRIGHT, BRADFORD L. (CTR-1)
10-32

WRIGHT, DONALD
11-32

YARNELL, JOHN L. (P-2)
9-8
9-14
9-15
28-28

YASUDA, STANLEY K. (H-5)
17-11
17-57

YAVIN, A. I.
22-49

YORK, THOMAS M.
10-36
10-68
10-152

YOUNG, FREDERICK (L-4)
20-100
20-104

YOUNG, PHILLIP G., JR. (T-2)
25-70
25-84
25-120
25-145

YOUNG, PHILLIP G., JR. (T-2) COMP.
25-14
25-15
25-16

ZACHARIASEN, FREDRIK
27-20

ZACHARIASEN, WILLIAM H. (CMB-5)
29-5

ZACHARIASEN, WILLIAM H. (CNC-4)
9-4

ZAIDER, M.
22-49

ZERWAS, ALFRED M.
30-45

ZIMMERMANN, EUGENE L. (CTR-3)
10-60
10-69
10-101
10-110

ZINN, JOHN (J-10)
4-26
4-68
6-3
7-2
18-8
18-23
18-48

ZOCHER, ROY W. (CMB-11)
23-48

ZUKAS, EUGENE G. (CMB-5)
23-46

ZUKAS, EUGENE G. (CMB-8)
23-13
23-37
23-51

NUMERICAL INDEX

AFATL-TR-75-56 15-11
AFOSR-TR-71-3128 30-29
AFWL-TR-74-222 15-29
ANL-75-2 21-11
ANL-75-2 21-48
ANL-8085 21-25
ANL/CTR-75-4 8-45
BNL-NCS-50451 25-215
BRL-CR-219 18-49
CONF-720902 26-3
CONF-730915 M 27-2
CONF-731007 5-21
CONF-731007 5-22
CONF-731007 5-29
CONF-731007 5-35
CONF-731007 5-36
CONF-731007 5-39
CONF-731007 5-95
CONF-731007 5-103
CONF-731007 5-108
CONF-731007 5-130
CONF-740115 5-96
CONF-740115 7-3
CONF-740115 17-3
CONF-740115 17-49
CONF-740807 V.1 17-10
CONF-740807 V.1 17-38
CONF-740807 V.1 17-61
CONF-741001 10-83
CONF-741001 12-12
CONF-741001 21-5
CONF-741001 21-18
CONF-741001 21-20
CONF-741001 21-21
CONF-741001 21-23
CONF-741001 21-37
CONF-741001 21-39
CONF-741001 21-42
CONF-741001 21-51
CONF-741001 21-62
CONF-741001 21-69
CONF-741001 21-81
CONF-741032 7-8
CONF-741040-P2 5-97
CONF-741040-P2 26-24
CONF-750413, VOL.2 24-9
CONF-750827 17-8
CONF-750827 17-15
CONF-750827 17-62
DNA 3609P-2 21-78
DNA-LA-10 4-4
DNA-LA-10 4-10
DNA-LA-10 4-26
DNA-LA-10 4-68
DNA-LA-10 10-63
DNA-LA-10 10-91
DNA-LA-10 18-7
DNA-LA-10 18-8
DNA-LA-10 18-12
DNA-LA-10 18-13
DNA-LA-10 18-14
DNA-LA-10 18-21
DNA-LA-10 18-22
DNA-LA-10 18-23
DNA-LA-10 18-38
DNA-LA-10 18-46
DNA-LA-10 18-48
DNA-LA-10 18-50
DNA-LA-10 18-53
DNA-LA-10 18-54
DNA-LA-10 24-16
DOS-1-81 30-58
EGG-1183-5058 11-32
ENDF-223 25-63
ENG-9-DC-74-05 30-18
ERDA-106 10-112
ERDA-115 10-142
ERDA-4 10-109
ERDA-92 V.1 17-17
ERDA-93 5-145
ERDA-93 17-47
FI-8E+P-74 15-14
FRA-TM-59 24-21
IAEA-CN-33/A13-4 10-134
IAEA-SM-195/33 24-46
IAEA-SM-200/18 23-65
IAEA-SM-204/1 30-78
IAEA-SM-204/5 30-84
JAERI-M-5984 25-120
KEK-74-15 25-18
LA-30 7-12
LAMS-43 15-5
LA-57 25-133
LAMS-90 23-54
LAMS-112 23-53
LA-140 25-104
LA-165 18-43
LA-182 15-2
LAMS-197 15-3
LA-228 15-12
LA-262 15-8
LA-269 30-79
LA-271 15-7
LA-366 30-35
LA-370 30-87
LAMS-381 30-62
LA-409 30-6
LA-429 2-17
LAMS-453 17-54
LA-531 30-34
LAMS-567 28-26
LA-587 23-52
LAMS-663 25-99
LAMS-667 30-63
LAMS-692 23-39
LA-714 30-82
LAMS-730 23-2
LAMS-731 30-60
LA-745 9-16
LA-755 25-80
LAMS-782 30-56

LAMS-861 23-18
LAMS-917 5-70
LAMS-921 30-2
LAMS-929 5-72
LAMS-941 5-71
LAMS-984 27-5
LA-1022, V.7, PT.3 30-5
LA-1023 30-4
LA-1031 30-30
LA-1033 24-7
LA-1036 24-8
LA-1039 30-89
LA-1057 21-57
LA-1058 21-58
LA-1079 7-14
LA-1137 30-81
LA-1163 28-22
LA-1172 28-9
LA-1196 2-27
LA-1308 30-72
LA-1350 2-10
LAMS-1370 30-40
LA-1463 2-11
LA-1538 5-73
LAMS-1547 2-2
LAMS-1587 23-59
LAMS-1675 30-20
LAMS-1859 30-54
LAMS-1935 30-13
LA-1940 21-77
LAMS-1978 30-22
LAMS-2101 23-20
LA-2336 23-24
LA-2407 30-7
LAMS-2470 30-37
LA-2558 30-73
LA-2559 23-4
LA-2585 30-33
LAMS-2597 28-2
LA-2669 30-45
LAMS-2688 30-28
LAMS-2695 30-38
LAMS-2741 30-86
LAMS-2774 30-83
LAMS-2783 30-26
LA-2787 30-74
LAMS-2829 30-50
LAMS-2839 30-61
LA-2859 23-11
LA-2936 30-27
LAMS-2993 30-91
LA-3067-MS, REV. 24-14
LA-3227-MS 30-21
LA-3229-MS, SUPPL. 30-65
LA-3283-MS 30-64
LA-3290 30-75
LA-3295-MS 23-5
LA-3308-MS 30-90
LA-3317-MS 30-88
LA-3325-MS 30-36
LA-3376 18-31
LA-3514-MS 30-9
LA-3577, SUPPL. 30-49
LA-3580-MS 30-15
LA-3590-MS 23-33
LA-3635 28-24
LA-3761-MS 30-70
LA-3908 30-16
LA-4110-MS 30-71
LA-4180-MS 30-59
LA-4183-MS 30-85
LA-4822 21-53
LA-4991-PR 17-27
LA-5012-PR 17-37
LA-5016-PR 17-4
LA-5133-PR 30-69
LA-5170-PR 17-36
LA-5197-PR 26-19
LA-5367-PR 23-47
LA-5651-M, SUPPL. 26-7
LA-5661 17-58
LA-5697-MS 28-21
LA-5703-SR REV. 20-159
LA-5704-MS 18-56
LA-5752 21-16
LA-5755 17-9
LA-5764-MS 30-57
LA-5769 11-5
LA-5776 2-25
LA-5783-MS 20-54
LA-5793 25-70
LA-5794-M 26-8
LA-5795-C 7-8
LA-5802-MS 15-10
LA-5803 21-36
LA-5812 18-41
LA-5813-MS 5-83
LA-5815-MS 20-33
LA-5816-MS 21-28
LA-5819-PR 11-41
LA-5820 23-26
LA-5821-MS 28-31
LA-5822-PR 17-45
LA-5824-PR 5-3
LA-5826-MS 11-6
LA-5828-MS 25-227
LA-5829-MS 15-13
LA-5830-T 25-194
LA-5831 23-43
LA-5832-MS 10-46
LA-5833-MS 8-56
LA-5834-MS 13-16
LA-5836-MS 25-129
LA-5837-MS 20-7
LA-5838 11-38
LA-5839-MS 20-96
LA-5840 21-9
LA-5842-MS 25-219
LA-5844 15-22
LA-5845-PR 22-48
LA-5849-MS 10-20
LA-5850-MS 7-2
LA-5851-PR 8-38
LA-5852 18-47
LA-5853-MS 10-150
LA-5854-T 22-40
LA-5855-MS 17-53
LA-5856 27-3
LA-5857-MS 11-7
LA-5858-PR 28-35
LA-5860-MS 25-159
LA-5861-MS 21-24
LA-5863-MS 15-24
LA-5864 15-9
LA-5865 15-18
LA-5866-MS 5-134
LA-5867-MS 5-79
LA-5868-MS 28-25
LA-5869-MS 12-10
LA-5870-PR 28-34
LA-5871-MS 4-32
LA-5873-PR 17-46
LA-5874-PR 12-16
LA-5876-MS 2-7
LA-5879-MS 21-49
LA-5881-PR 28-33
LA-5882-MS 8-2
LA-5884 2-8

LA-5885-MS	28.5
LA-5889-PR	26.18
LA-5890-MS	27.8
LA-5892-MS	4.45
LA-5893-MS	17.30
LA-5894-PR	13.20
LA-5895-MS	10.65
LA-5896	19.15
LA-5897-PR	11.57
LA-5898-MS	20.116
LA-5899-PR	5.51
LA-5900-MS	30.68
LA-5901-PR	17.20
LA-5902-MS	28.30
LA-5903-MS	21.47
LA-5904-MS	30.46
LA-5906	18.28
LA-5908-PR	22.43
LA-5909-MS	15.17
LA-5910-MS	18.35
LA-5911-MS	11.15
LA-5914-MS	12.13
LA-5915-MS	15.20
LA-5916	17.35
LA-5917-MS	20.60
LA-5918-P	8.40
LA-5919-PR	20.80
LA-5920-MS	13.2
LA-5921-PR	5.8
LA-5922-H	10.97
LA-5923-MS	20.86
LA-5924-MS	13.10
LA-5925-MS	12.3
LA-5926-MS	15.28
LA-5927-MS	5.59
LA-5929-MS	29.3
LA-5930-MS	24.4
LA-5931	30.80
LA-5932	25.9
LA-5933-MS	21.34
LA-5935-PR	8.46
LA-5936-MS	1.13
LA-5937-MS	25.58
LA-5940-MS	21.60
LA-5941-MS	21.41
LA-5942-MS	18.25
LA-5943-MS	18.34
LA-5944-PR	25.13
LA-5945-MS	13.15
LA-5946-MS	24.20
LA-5947-MS	11.23
LA-5948-MS	25.213
LA-5949-MS	25.136
LA-5952	24.15
LA-5953-MS	8.11
LA-5954	27.4
LA-5955-MS	17.29
LA-5956-PR	11.54
LA-5957-MS	10.68
LA-5958-MS	17.56
LA-5959-PR	22.47
LA-5961	25.62
LA-5962-MS	23.46
LA-5963	24.18
LA-5964-PR	27.19
LA-5965-PR	11.58
LA-5966-P	10.108
LA-5967-MS	12.20
LA-5968-PR	28.32
LA-5969-PR	17.6
LA-5971-MS	24.19
LA-5972-PR	8.60
LA-5973-PR	17.13
LA-5975-PR	28.18
LA-5977-PR	17.25

LA-5978-MS	28.28
LA-5980	10.156
LA-5981-MS	15.23
LA-5983-MS	25.122
LA-5985-MS, VOL. I	20.107
LA-5985-MS, VOL. II	20.108
LA-5985-MS, VOL. III	20.109
LA-5987	25.30
LA-5988	10.125
LA-5989-MS	13.7
LA-5990-MS	24.17
LA-5991-MS	30.17
LA-5992-PR	15.11
LA-5993-MS	30.11
LA-5994-MS	25.88
LA-5997-MS	17.48
LA-5998-MS	11.43
LA-5999-MS	30.1
LA-6001-T	23.60
LA-6002	25.177
LA-6003	21.10
LA-6004-PR	8.48
LA-6005-MS	18.2
LA-6007-MS	26.27
LA-6009-MS	20.17
LA-6010	3.1
LA-6011-MS	28.1
LA-6012	23.41
LA-6014	18.30
LA-6015-T	21.44
LA-6017-MS	11.24
LA-6018-PR	25.15
LA-6021-MS	16.5
LA-6022-MS	11.50
LA-6023-MS	25.180
LA-6025-MS	4.64
LA-6026-PR	30.19
LA-6028	17.28
LA-6029-PR	28.38
LA-6030-C	4.5
LA-6030-C	4.27
LA-6030-C	4.43
LA-6030-C	22.8
LA-6030-C	22.9
LA-6030-C	22.28
LA-6030-C	22.30
LA-6030-C	25.8
LA-6030-C	25.25
LA-6030-C	25.44
LA-6030-C	25.45
LA-6030-C	25.52
LA-6030-C	25.58
LA-6030-C	25.59
LA-6030-C	25.64
LA-6030-C	25.75
LA-6030-C	25.77
LA-6030-C	25.91
LA-6030-C	25.94
LA-6030-C	25.109
LA-6030-C	25.113
LA-6030-C	25.119
LA-6030-C	25.126
LA-6030-C	25.128
LA-6030-C	25.132
LA-6030-C	25.144
LA-6030-C	25.147
LA-6030-C	25.155
LA-6030-C	25.165
LA-6030-C	25.168
LA-6030-C	25.169
LA-6030-C	25.181
LA-6030-C	25.190
LA-6031-MS	28.7
LA-6032-MS	10.75
LA-6033-PR	5.50

LA-6004-MS 17-52
LA-6005-MS 11-30
LA-6008-MS 11-60
LA-6040-PR 26-17
LA-6041-T 25-182
LA-6042-PR 17-14
LA-6043-MS 22-6
LA-6044-PR 10-70
LA-6046-MS 20-119
LA-6047-MS 30-44
LA-6048-PR 28-12
LA-6049-MS 5-139
LA-6051 20-25
LA-6053-PR 8-59
LA-6054-PR 28-19
LA-6055-MS 6-3
LA-6056-PR 17-22
LA-6059-MS 30-39
LA-6282-MS 12-6
LA-6063 20-66
LA-6064-MS 23-10
LA-6065-MS 5-104
LA-6069-MS 23-27
LA-6073-MS 4-28
LA-6074-PR 17-32
LA-6076-MS 30-43
LA-6077-MS 28-27
LA-6078-MS 30-52
LA-6079-MS 20-144
LA-6080-PR 11-53
LA-6081-PR 23-50
LA-6083-T 2-19
LA-6088-PR 5-109
LA-6093 11-62
LA-6095-MS 28-8
LA-6097-MS 18-9
LA-6099-PR 8-24
LA-6101-PR 21-7
LA-6102-PR 13-4
LA-6104-MS 18-35
LA-6105-MS 24-1
LA-6106-MS 28-29
LA-6107-MS 12-19
LA-6108-MS 21-74
LA-6109-PR 22-29
LA-6112-MS 11-19
LA-6114 2-5
LA-6115-MS 11-9
LA-6116-MS 25-63
LA-6117-PR 8-47
LA-6118-MS 10-2
LA-6120-PR 13-19
LA-6121-MS 26-26
LA-6122-MS 12-18
LA-6123-PR 25-14
LA-6124-MS 20-163
LA-6127-MS 24-11
LA-6128-PR 17-21
LA-6130-MS 10-155
LA-6136 10-17
LA-6137-PR 28-39
LA-6139-MS 12-15
LA-6140-TR 21-45
LA-6143-MS 12-11
LA-6144-PR 5-7
LA-6145-MS 24-6
LA-6146-MS 23-31
LA-6149-MS 3-17
LA-6154-MS 15-26
LA-6155-PR 28-11
LA-6156-PR 22-30
LA-6161-PR 28-20
LA-6164-PR 25-16
LA-6168-MS 25-39
LA-6169-MS 11-12
LA-6170-MS 11-17
LA-6171-PR 8-58
LA-6173-MS 10-18
LA-6177-MS 10-71
LA-6178-MS 10-96
LA-6182-PR 8-23
LA-6183-PR 5-132
LA-DC-10093 9-9
LA-DC-10193 9-3
LA-DC-11696 8-18
LA-DC-12692 5-56
LA-DC-72-977 26-3
LA-DC-72-1220 21-59
LA-DC-72-1387 20-68
LA-DC-72-1466 5-112
LA-DC-72-1520 21-33
LA-UR-73-152 5-12
LA-UR-73-330 20-19
LA-UR-73-376 5-84
LA-UR-73-420 20-100
LA-UR-73-569 21-38
LA-UR-73-676 5-130
LA-UR-73-859 26-6
LA-UR-73-919 23-56
LA-UR-73-1015 21-54
LA-UR-73-1057 7-5
LA-UR-73-1063 16-16
LA-UR-73-1098 10-8
LA-UR-73-1123 20-76
LA-UR-73-1153 5-125
LA-UR-73-1302 1-7
LA-UR-73-1389 5-12
LA-UR-73-1406 14-2
LA-UR-73-1496 20-132
LA-UR-73-1510 24-12
LA-UR-73-1594 5-103
LA-UR-73-1614 5-29
LA-UR-73-1631 21-60
LA-UR-73-1650 5-108
LA-UR-73-1652 6-4
LA-UR-73-1667 10-28
LA-UR-73-1721 5-35
LA-UR-73-1722 5-36
LA-UR-73-1771 7-24
LA-UR-73-1836 21-6
LA-UR-73-1845 20-131
LA-UR-74-49 27-15
LA-UR-74-62 24-5
LA-UR-74-98 9-17
LA-UR-74-105 5-5
LA-UR-74-146 5-39
LA-UR-74-154 20-73
LA-UR-74-165 23-13
LA-UR-74-180 17-41
LA-UR-74-212 13-12
LA-UR-74-213 28-17
LA-UR-74-296 5-76
LA-UR-74-313 30-32
LA-UR-74-328 11-61
LA-UR-74-341 20-18
LA-UR-74-345 9-20
LA-UR-74-372 7-6
LA-UR-74-393 5-87
LA-UR-74-419 5-88
LA-UR-74-463 10-152
LA-UR-74-474 19-13
LA-UR-74-548 8-61
LA-UR-74-563 20-142
LA-UR-74-591 17-8
LA-UR-74-601 17-19
LA-UR-74-624 21-30
LA-UR-74-633 19-3
LA-UR-74-638 9-1
LA-UR-74-692 1-16
LA-UR-74-722 5-120

LA-UR-74-737	8-49
LA-UR-74-738	25-120
LA-UR-74-743	15-14
LA-UR-74-748	17-26
LA-UR-74-758	10-44
LA-UR-74-762	20-29
LA-UR-74-763	5-85
LA-UR-74-776	5-89
LA-UR-74-780	21-71
LA-UR-74-790	24-2
LA-UR-74-795	1-23
LA-UR-74-807	20-51
LA-UR-74-813	3-32
LA-UR-74-826	10-111
LA-UR-74-831	21-11
LA-UR-74-842	5-84
LA-UR-74-849	8-53
LA-UR-74-854	6-13
LA-UR-74-867	6-11
LA-UR-74-869	17-18
LA-UR-74-877	21-64
LA-UR-74-888	20-146
LA-UR-74-894	20-152
LA-UR-74-895	4-61
LA-UR-74-897	21-48
LA-UR-74-900	25-20
LA-UR-74-905	4-11
LA-UR-74-906	9-27
LA-UR-74-911	23-6
LA-UR-74-914	18-10
LA-UR-74-917	10-23
LA-UR-74-927	18-36
LA-UR-74-932	5-107
LA-UR-74-935	25-231
LA-UR-74-937(REV.)	23-29
LA-UR-74-950	20-27
LA-UR-74-963	2-12
LA-UR-74-969	16-10
LA-UR-74-972	20-85
LA-UR-74-976	5-61
LA-UR-74-979	8-51
LA-UR-74-981	9-10
LA-UR-74-986	20-123
LA-UR-74-990	22-1
LA-UR-74-1000	2-21
LA-UR-74-1001	27-11
LA-UR-74-1008	5-74
LA-UR-74-1014	27-30
LA-UR-74-1028	18-27
LA-UR-74-1035	17-38
LA-UR-74-1040	5-42
LA-UR-74-1047	6-14
LA-UR-74-1051	17-10
LA-UR-74-1079	10-15
LA-UR-74-1088	4-59
LA-UR-74-1094	6-2
LA-UR-74-1096	20-101
LA-UR-74-1106	21-12
LA-UR-74-1107	20-3
LA-UR-74-1111	11-43
LA-UR-74-1114	23-17
LA-UR-74-1117	20-122
LA-UR-74-1125	23-37
LA-UR-74-1130	7-16
LA-UR-74-1132	17-61
LA-UR-74-1137	18-3
LA-UR-74-1141	17-11
LA-UR-74-1142	4-29
LA-UR-74-1143	25-11
LA-UR-74-1144	18-24
LA-UR-74-1145	8-14
LA-UR-74-1156	20-55
LA-UR-74-1163	20-49
LA-UR-74-1164	18-5
LA-UR-74-1167	19-10
LA-UR-74-1170	17-16
LA-UR-74-1176	20-153
LA-UR-74-1177	20-118
LA-UR-74-1180	4-23
LA-UR-74-1189	8-54
LA-UR-74-1195	23-57
LA-UR-74-1196	23-36
LA-UR-74-1202	18-55
LA-UR-74-1205	23-3
LA-UR-74-1206	10-39
LA-UR-74-1207	4-7
LA-UR-74-1208	16-1
LA-UR-74-1215	21-35
LA-UR-74-1216	25-51
LA-UR-74-1231	26-1
LA-UR-74-1232	17-34
LA-UR-74-1240	2-3
LA-UR-74-1252	21-29
LA-UR-74-1259	22-53
LA-UR-74-1264	6-15
LA-UR-74-1277	4-47
LA-UR-74-1279	23-51
LA-UR-74-1292	3-20
LA-UR-74-1313	15-19
LA-UR-74-1314	5-114
LA-UR-74-1318	3-23
LA-UR-74-1323	9-2
LA-UR-74-1330	5-138
LA-UR-74-1337	20-9
LA-UR-74-1339	17-55
LA-UR-74-1345	20-59
LA-UR-74-1350	9-11
LA-UR-74-1351	22-39
LA-UR-74-1355	21-65
LA-UR-74-1363	21-26
LA-UR-74-1373	17-4
LA-UR-74-1376	25-197
LA-UR-74-1378	25-76
LA-UR-74-1379	9-19
LA-UR-74-1380	29-2
LA-UR-74-1393	5-118
LA-UR-74-1400	5-46
LA-UR-74-1412	30-51
LA-UR-74-1413	8-3
LA-UR-74-1414	4-19
LA-UR-74-1416	20-97
LA-UR-74-1419	5-1
LA-UR-74-1421	27-9
LA-UR-74-1422	3-46
LA-UR-74-1423	2-9
LA-UR-74-1424	20-44
LA-UR-74-1428	21-13
LA-UR-74-1429	8-12
LA-UR-74-1434	8-1
LA-UR-74-1436	25-196
LA-UR-74-1443	8-21
LA-UR-74-1444	25-67
LA-UR-74-1445	22-14
LA-UR-74-1445 REV.	22-15
LA-UR-74-1446	10-81
LA-UR-74-1447	10-135
LA-UR-74-1448	22-25
LA-UR-74-1450	25-123
LA-UR-74-1453	8-30
LA-UR-74-1459	7-8
LA-UR-74-1465	4-9
LA-UR-74-1466	10-56
LA-UR-74-1467	5-13
LA-UR-74-1470	7-62
LA-UR-74-1471	4-52
LA-UR-74-1472	8-8
LA-UR-74-1473	8-29
LA-UR-74-1477	5-78

LA-UR-74-1483	14-10
LA-UR-74-1487	8-6
LA-UR-74-1490	17-39
LA-UR-74-1497	7-19
LA-UR-74-1508	10-50
LA-UR-74-1511	20-70
LA-UR-74-1513	25-48
LA-UR-74-1514	18-19
LA-UR-74-1520	10-102
LA-UR-74-1521	8-22
LA-UR-74-1523	21-23
LA-UR-74-1525	20-149
LA-UR-74-1526	5-133
LA-UR-74-1529	20-48
LA-UR-74-1530	5-113
LA-UR-74-1538	6-5
LA-UR-74-1542	25-82
LA-UR-74-1543	16-13
LA-UR-74-1549	10-100
LA-UR-74-1556	17-7
LA-UR-74-1560	5-54
LA-UR-74-1565	21-69
LA-UR-74-1566	21-21
LA-UR-74-1568	5-77
LA-UR-74-1578	21-42
LA-UR-74-1582	21-37
LA-UR-74-1594	27-7
LA-UR-74-1596	30-66
LA-UR-74-1600	20-150
LA-UR-74-1603	10-83
LA-UR-74-1604	12-12
LA-UR-74-1606	25-164
LA-UR-74-1608	21-18
LA-UR-74-1609	5-43
LA-UR-74-1610	5-131
LA-UR-74-1614	25-71
LA-UR-74-1625	23-35
LA-UR-74-1627	15-27
LA-UR-74-1628	10-153
LA-UR-74-1635	9-5
LA-UR-74-1637	8-34
LA-UR-74-1638	10-26
LA-UR-74-1643	7-13
LA-UR-74-1644	10-4
LA-UR-74-1646	22-38
LA-UR-74-1650	5-129
LA-UR-74-1651	1-31
LA-UR-74-1656	23-32
LA-UR-74-1659	3-2
LA-UR-74-1665	1-17
LA-UR-74-1666	25-42
LA-UR-74-1667	25-21
LA-UR-74-1668	25-22
LA-UR-74-1669	4-51
LA-UR-74-1670	4-18
LA-UR-74-1677	5-97
LA-UR-74-1679	20-26
LA-UR-74-1680	19-14
LA-UR-74-1685	6-1
LA-UR-74-1687	5-75
LA-UR-74-168[illegible]3	21-22
LA-UR-[illegible]91	22-34
LA-UR-[illegible]93	21-81
LA-UR-74-1715	10-61
LA-UR-74-1716	9-14
LA-UR-74-1732	17-44
LA-UR-74-1735	20-112
LA-UR-74-1737	15-15
LA-UR-74-1738	15-4
LA-UR-74-1739	3-22
LA-UR-74-1741	20-145
LA-UR-74-1742	10-110
LA-UR-74-1743	18-10
LA-UR-74-1744	21-3
LA-UR-74-1751	25-4
LA-UR-74-1758	27-6
LA-UR-74-1761	4-41
LA-UR-74-1764	25-110
LA-UR-74-1765	20-8
LA-UR-74-1768	21-2
LA-UR-74-1772	9-26
LA-UR-74-1773	7-18
LA-UR-74-1774	5-144
LA-UR-74-1777	22-13
LA-UR-74-1779	13-1
LA-UR-74-1784	4-16
LA-UR-74-1785	25-189
LA-UR-74-1788	20-134
LA-UR-74-1792	5-106
LA-UR-74-1796	2-22
LA-UR-74-1806	25-108
LA-UR-74-1826	5-48
LA-UR-74-1829	13-13
LA-UR-74-1836	11-42
LA-UR-74-1839	5-9
LA-UR-74-1859	5-53
LA-UR-74-1861	10-109
LA-UR-74-1871	5-17
LA-UR-74-1874	9-23
LA-UR-74-1875	9-25
LA-UR-74-1876	9-24
LA-UR-74-1880	11-48
LA-UR-74-1883	20-15
LA-UR-74-1887	5-81
LA-UR-74-1888	19-7
LA-UR-74-1890	2-16
LA-UR-74-1895	2-26
LA-UR-74-1896	7-20
LA-UR-74-1898	20-43
LA-UR-74-1902	25-27
LA-UR-74-1905	19-16
LA-UR-74-1906	14-12
LA-UR-74-1907	14-7
LA-UR-74-1910	6-10
LA-UR-74-1911	20-5
LA-UR-74-1914	25-125
LA-UR-74-1915	21-1
LA-UR-74-1918	6-7
LA-UR-74-1920	6-12
LA-UR-74-1922	25-204
LA-UR-74-1924	3-28
LA-UR-74-1925	5-19
LA-UR-74-1931	12-21
LA-UR-74-1934	25-222
LA-UR-74-1940	25-217
LA-UR-74-1941	5-24
LA-UR-74-1945	5-68
LA-UR-74-1950	2-13
LA-UR-74-1951	20-136
LA-UR-74-1956	20-92
LA-UR-74-1960	5-28
LA-UR-74-1962	6-16
LA-UR-74-1963	17-33
LA-UR-74-1974	25-184
LA-UR-74-1976	4-69
LA-UR-74-1980	5-38
LA-UR-74-1987	27-18
LA-UR-74-5034	5-14
LA-UR-75-4	5-147
LA-UR-75-5	25-107
LA-UR-75-6	4-12
LA-UR-75-8	5-111
LA-UR-75-14	20-111
LA-UR-75-15	8-41
LA-UR-75-32	5-101
LA-UR-75-35	21-4
LA-UR-75-39	4-6
LA-UR-75-40	4-35

LA-UR-75-41	20-99
LA-UR-75-45	1-6
LA-UR-75-62	5-58
LA-UR-75-63	4-48
LA-UR-75-69	20-106
LA-UR-75-80	20-6
LA-UR-75-84	10-106
LA-UR-75-124	5-105
LA-UR-75-133	5-55
LA-UR-75-137	10-76
LA-UR-75-139	21-40
LA-UR-75-152	15-16
LA-UR-75-161	25-111
LA-UR-75-184	25-54
LA-UR-75-185	24-9
LA-UR-75-189	8-43
LA-UR-75-197	17-24
LA-UR-75-198	1-24
LA-UR-75-200	17-5
LA-UR-75-204	19-18
LA-UR-75-206	11-52
LA-UR-75-212	20-10
LA-UR-75-215	21-46
LA-UR-75-224	25-153
LA-UR-75-229	14-6
LA-UR-75-239	10-127
LA-UR-75-244	4-54
LA-UR-75-253	5-13
LA-UR-75-254	4-53
LA-UR-75-256	10-132
LA-UR-75-257	20-52
LA-UR-75-258	3-5
LA-UR-75-260	20-12
LA-UR-75-261	17-12
LA-UR-75-278	25-162
LA-UR-75-283	8-17
LA-UR-75-286	20-133
LA-UR-75-288	25-1
LA-UR-75-291	23-42
LA-UR-75-294	25-84
LA-UR-75-307	25-41
LA-UR-75-312	18-15
LA-UR-75-317	25-145
LA-UR-75-318	16-3
LA-UR-75-319	25-151
LA-UR-75-323	25-209
LA-UR-75-326	25-192
LA-UR-75-330	4-44
LA-UR-75-336	3-13
LA-UR-75-340	25-49
LA-UR-75-341	25-187
LA-UR-75-344	25-191
LA-UR-75-348	10-38
LA-UR-75-350	4-62
LA-UR-75-355	22-31
LA-UR-75-356	7-11
LA-UR-75-358	3-18
LA-UR-75-359	5-135
LA-UR-75-360	25-115
LA-UR-75-372	22-19
LA-UR-75-373	22-38
LA-UR-75-374	19-11
LA-UR-75-375	27-20
LA-UR-75-389	20-28
LA-UR-75-390	1-12
LA-UR-75-393	5-60
LA-UR-75-396	21-70
LA-UR-75-398	20-102
LA-UR-75-399	20-103
LA-UR-75-400	20-104
LA-UR-75-401	22-44
LA-UR-75-402	22-4
LA-UR-75-403	22-45
LA-UR-75-405	25-103

LA-UR-75-407	27-4
LA-UR-75-411	6-8
LA-UR-75-414	25-61
LA-UR-75-416	10-78
LA-UR-75-417	20-137
LA-UR-75-420	4-22
LA-UR-75-421	10-1
LA-UR-75-422	10-25
LA-UR-75-424	20-117
LA-UR-75-425	13-13
LA-UR-75-426	22-36
LA-UR-75-427	13-14
LA-UR-75-428	20-161
LA-UR-75-429	21-32
LA-UR-75-431	5-34
LA-UR-75-434	5-67
LA-UR-75-435	9-7
LA-UR-75-438	25-90
LA-UR-75-439	22-37
LA-UR-75-440	30-47
LA-UR-75-447	5-143
LA-UR-75-453	5-93
LA-UR-75-457	1-30
LA-UR-75-459	25-199
LA-UR-75-481	25-31
LA-UR-75-483	25-230
LA-UR-75-494	25-101
LA-UR-75-511	23-63
LA-UR-75-516	25-228
LA-UR-75-523	5-4
LA-UR-75-527	20-105
LA-UR-75-528	18-37
LA-UR-75-532	11-35
LA-UR-75-541	3-38
LA-UR-75-546	1-25
LA-UR-75-552	11-44
LA-UR-75-554	10-30
LA-UR-75-560	19-8
LA-UR-75-582	25-187
LA-UR-75-595	2-23
LA-UR-75-609	19-12
LA-UR-75-617	10-82
LA-UR-75-619	4-63
LA-UR-75-621	5-31
LA-UR-75-631	25-2
LA-UR-75-636	20-94
LA-UR-75-642	20-78
LA-UR-75-647	14-4
LA-UR-75-652	25-171
LA-UR-75-660	20-74
LA-UR-75-672	20-156
LA-UR-75-684	20-75
LA-UR-75-688	12-3
LA-UR-75-691	12-7
LA-UR-75-694	5-32
LA-UR-75-698	27-16
LA-UR-75-700	15-1
LA-UR-75-707	20-64
LA-UR-75-711	17-51
LA-UR-75-723	11-59
LA-UR-75-735	3-31
LA-UR-75-736	20-39
LA-UR-75-743	25-223
LA-UR-75-750	8-32
LA-UR-75-751	8-20
LA-UR-75-758	8-50
LA-UR-75-766	16-6
LA-UR-75-791	1-22
LA-UR-75-792	20-1
LA-UR-75-804	8-37
LA-UR-75-830	20-69
LA-UR-75-834	14-8
LA-UR-75-836	25-153
LA-UR-75-839	20-67

LA-UR-75-859	21-8
LA-UR-75-863	10-133
LA-UR-75-864	10-131
LA-UR-75-865	8-10
LA-UR-75-869	1-5
LA-UR-75-872	17-59
LA-UR-75-874	25-148
LA-UR-75-876	30-78
LA-UR-75-879	27-12
LA-UR-75-880	3-35
LA-UR-75-885	10-118
LA-UR-75-887	17-47
LA-UR-75-889	20-120
LA-UR-75-898	5-82
LA-UR-75-900	22-23
LA-UR-75-902	25-186
LA-UR-75-905	10-138
LA-UR-75-910	21-17
LA-UR-75-913	20-124
LA-UR-75-920	5-62
LA-UR-75-923	21-37
LA-UR-75-934	18-39
LA-UR-75-941	20-77
LA-UR-75-942	21-76
LA-UR-75-945	12-4
LA-UR-75-952	11-33
LA-UR-75-953	11-27
LA-UR-75-955	2-28
LA-UR-75-962	20-125
LA-UR-75-967	8-26
LA-UR-75-971	11-46
LA-UR-75-972	5-123
LA-UR-75-985	3-30
LA-UR-75-992	5-63
LA-UR-75-1013	26-13
LA-UR-75-1014	7-7
LA-UR-75-1028	9-6
LA-UR-75-1032	8-15
LA-UR-75-1033	4-39
LA-UR-75-1038	3-33
LA-UR-75-1042	14-3
LA-UR-75-1046	20-34
LA-UR-75-1047	13-18
LA-UR-75-1053	30-92
LA-UR-75-1059	25-114
LA-UR-75-1062	5-119
LA-UR-75-1066	13-6
LA-UR-75-1068	25-195
LA-UR-75-1069	26-10
LA-UR-75-1070	17-31
LA-UR-75-1074	26-12
LA-UR-75-1078	26-2
LA-UR-75-1089	22-32
LA-UR-75-1096	3-11
LA-UR-75-1099	8-16
LA-UR-75-1103	25-224
LA-UR-75-1109	30-93
LA-UR-75-1119	25-81
LA-UR-75-1122	3-26
LA-UR-75-1123	3-16
LA-UR-75-1126	11-13
LA-UR-75-1127	30-84
LA-UR-75-1133	1-8
LA-UR-75-1145	22-22
LA-UR-75-1146	25-87
LA-UR-75-1149	30-3
LA-UR-75-1161	21-15
LA-UR-75-1175	5-91
LA-UR-75-1189	23-22
LA-UR-75-1192	3-10
LA-UR-75-1208	10-40
LA-UR-75-1214	3-24
LA-UR-75-1217	10-74
LA-UR-75-1232	10-5
LA-UR-75-1244	25-172
LA-UR-75-1258	7-23
LA-UR-75-1262	10-62
LA-UR-75-1265	25-154
LA-UR-75-1274	25-105
LA-UR-75-1278	25-156
LA-UR-75-1279	14-11
LA-UR-75-1281	25-96
LA-UR-75-1282	25-38
LA-UR-75-1284	25-206
LA-UR-75-1295	20-4
LA-UR-75-1305	25-158
LA-UR-75-1318	25-152
LA-UR-75-1320	25-85
LA-UR-75-1321	23-65
LA-UR-75-1324	5-94
LA-UR-75-1331	26-11
LA-UR-75-1335	12-17
LA-UR-75-1337	3-12
LA-UR-75-1347	8-4
LA-UR-75-1354	4-21
LA-UR-75-1360	12-8
LA-UR-75-1364	9-4
LA-UR-75-1389	3-37
LA-UR-75-1402	7-9
LA-UR-75-1414	23-55
LA-UR-75-1415	23-14
LA-UR-75-1419	17-15
LA-UR-75-1431	5-137
LA-UR-75-1473	17-62
LA-UR-75-1491	10-57
LA-UR-75-1493	2-15
LA-UR-75-1502	10-121
LA-UR-75-1506	10-88
LA-UR-75-1510	8-45
LA-UR-75-1519	10-95
LA-UR-75-1524	26-4
LA-UR-75-1526	1-2
LA-UR-75-1541	10-119
LA-UR-75-1542	10-6
LA-UR-75-1558	10-22
LA-UR-75-1565	10-43
LA-UR-75-1566	10-72
LA-UR-75-1567	10-52
LA-UR-75-1573	10-69
LA-UR-75-1575	25-150
LA-UR-75-1605	13-5
LA-UR-75-1607	26-23
LA-UR-75-1610	5-145
LA-UR-75-1611	4-50
LA-UR-75-1624	25-218
LA-UR-75-1625	3-8
LA-UR-75-1628	7-22
LA-UR-75-1631	25-175
LA-UR-75-1633	5-99
LA-UR-75-1643	25-116
LA-UR-75-1646	20-56
LA-UR-75-1667	10-115
LA-UR-75-1711	26-22
LA-UR-75-1712	26-9
LA-UR-75-1751	20-82
LA-UR-75-1760	22-10
LA-UR-75-1763	21-73
LA-UR-75-1769	3-25
LA-UR-75-1770	17-43
LA-UR-75-1813	23-28
LA-UR-75-1817	26-16
LA-UR-75-1818	4-15
LA-UR-75-1849	23-16
LA-UR-75-1863	21-27
LA-UR-75-1915	17-17
LA-UR-75-1971	20-154
LA-UR-75-2056	5-6
LA-UR-75-5001	30-10

LA-UR-75-5011	4-42
LA-UR-75-5012	30-53
NASA-CR-2533	23-47
NASA-LA-102	23-49
NRL-LA-321	4-57
NSF-RA-N-75-019	12-21
TID-26506	7-10
TID-26607	21-63
U. S. PATENT 3,885,832	11-4
U. S. PATENT 3,888,124	17-2
U. S. PATENT 3,892,529	5-122
U. S. PATENT 3,904,500	20-53
U. S. PATENT 3,904,985	20-41
U. S. PATENT 3,907,513	23-8
U. S. PATENT 3,916,338	20-90
U. S. PATENT 3,918,812	5-52
U. S. PATENT 3,918,818	5-100
U. S. PATENT 3,922,619	20-113
U. S. PATENT 3,924,180	5-117
U. S. PATENT 3,926,953	15-21
U. S. PATENT 3,929,601	7-21
UPR-0018E	25-75
USNDC-CTR-2	25-227
WASH-1332(74) V.2	17-8
WIS-75/19 PH	25-139

PUBLICATION TABULATION

A. **JOURNAL ARTICLES**—952 articles in 166 journals. (List is alphabetical by arrangement of titles in the LASL libraries.)

ACM Transactions on Mathematical Software—1
Acta Crystallographica—8
Acta Cytologica—1
Advances in Cryogenic Engineering—1
Advances in Mathematics—2
American Association for Cancer Research, Proceedings—1
American Astronomical Society, Bulletin—20
American Ceramic Society, Bulletin—3
American Chemical Society, Abstracts of Papers—20
American Chemical Society, Journal—2
American Industrial Hygiene Association, Journal—3
American Journal of Human Genetics—1
American Journal of Physics—3
American Journal of Veterinary Research—1
American Mathematical Society, Notices—3
American Mineralogist—2
American Nuclear Society, Transactions—67
American Physical Society, Bulletin—254
Analytica Chimica Acta—2
Analytical Chemistry—4
Annals of Physics—3
Applied Optics—4
Applied Physics Letters—6
Applied Spectroscopy—1
Archive for Rational Mechanics and Analysis—1
Astronomy and Astrophysics—3
Astrophysical Journal—9
Atomic Data and Nuclear Data Tables—2
Biochemical and Biophysical Research Communications—4
Biochemical Journal—1
Biochemistry—3
Biochimica et Biophysica Acta—5
Biophysical Journal—2
Biopolymers—1
British Journal of Radiology—1
Bulletin of Environmental Contamination and Toxicology—1
Bulletin of the American Meteorological Society—1
Cancer—1
Cancer Research—1
Carbon—1
Cell—1
Chemical Instrumentation—1
Chemical Physics—1
Chemical Physics Letters—5
Clinical Chemistry—1
Computer—1
Computer Physics Communications—1
Computers and Fluids—1
Cryogenics—4
Economic Geology and the Bulletin of the Society of Economic Geologists—1
Electrochemical Society, Journal—1
EOS (American Geophysical Union, Transactions)—21
European Journal of Cancer—1
Experimental Cell Research—5
FEBS Letters—2
Fibonacci Quarterly—1
Foreign Affairs—1
Geological Society of America Bulletin—1
Geology—1
Geophysical Research Letters—4
Health Physics—19
High Temperature Science—1
IEEE Journal of Quantum Electronics—16
IEEE Journal of Solid-State Circuits—1
IEEE Transactions on Computers—1

IEEE Transactions on Magnetics—9
IEEE Transactions on Nuclear Science—20
IEEE Transactions on Plasma Science—3
Industrial Research—1
Inorganic Chemistry—6
International Journal of Quantum Chemistry—1
Journal of Applied Crystallography—1
Journal of Applied Meteorology—1
Journal of Applied Physics—6
Journal of Biological Chemistry—1
Journal of Cell Biology—6
Journal of Chemical Physics—23
Journal of Chemical Thermodynamics—1
Journal of Chromatography—1
Journal of Computational Physics—10
Journal of Dynamic Systems, Measurement and Control—2
Journal of Geophysical Research—8
Journal of Heterocyclic Chemistry—1
Journal of Hydronautics—1
Journal of Inorganic and Nuclear Chemistry—1
Journal of Inorganic and Nuclear Chemistry—5
Journal of Labelled Compounds—2
Journal of Low Temperature Physics—3
Journal of Magnetic Resonance—1
Journal of Materials Science—2
Journal of Mathematical Biology—1
Journal of Mathematical Physics—6
Journal of Metals—5
Journal of Molecular Biology—1
Journal of Molecular Spectroscopy—3
Journal of Nuclear Materials—6
Journal of Nuclear Medicine—1
Journal of Photochemistry—1
Journal of Physical Chemistry—2
Journal of Physics and Chemistry of Solids—4
Journal of Physics, B, (Proceedings of the Physical Society)—2
Journal of Physics, C, (Proceedings of the Physical Society)—1
Journal of Physics, F, (Proceedings of the Physical Society)—1
Journal of Spacecraft and Rockets—1
Journal of the American Statistical Association—1
Journal of the Chemical Society, Faraday Transactions—1
Journal of the Institute of Mathematics and its Applications—1
Journal of the Less-Common Metals—1
Journal of the Mechanics and Physics of Solids—1
Journal of the National Cancer Institute—1
Journal of the Physical Society of Japan—1
Journal of Theoretical Biology—4
Journal of Vacuum Science and Technology—4
Lettere al Nuovo Cimento—1
Materials Science and Engineering—1
Mathematics of Computation—2
Mechanical Engineering—2
Memoires Societe Royale des Sciences de Liege—1
Metallurgical Transactions—1
Monthly Notices of the Royal Astronomical Society—1
Nature—3
New Mexico Academy of Sciences, Bulletin—16
New York Academy of Sciences, Annals—4
Nuclear Fusion—10
Nuclear Instruments and Methods—14
Nuclear Physics—8
Nuclear Science and Engineering—3
Nuclear Technology—5
Optical Engineering—3
Optical Society of America, Journal—4
Optics Communications—7
Orbis—1
Physica—1
Physica Status Solidi—1
Physical Review—55
Physical Review Letters—24
Physics Letters—6
Physics of Fluids—20
Physics Reports—1
Physics Teacher—1
Physics Today—1
Plasma Physics—2

Proceedings of the IEEE—2
Proceedings of the Society of Photo-Optical Instrumentation Engineers—1
Progress in Theoretical Physics (Kyoto)—1
Pure and Applied Chemistry—1
Radiation Research—6
Radiochimica Acta—1
Radiology—5
Review of Scientific Instruments—1
Reviews of Modern Physics—1
Science—5
Scientific American—1
SIAM Journal on Numerical Analysis—2
SIAM Review—1
Soil Science Society of America, Proceedings—2
Solar Physics—5
Solid State Communications—1
Spectroscopy Letters—1
Stain Technology—1
Studies in Applied Mathematics—1
Surface Science—1
Surgical Forum—1
Thermochimica Acta—2
Tuskegee Engineering Review—1
Weatherwise—1
Zeitschrift fur Physik—1

B. BOOKS—7

C. CHAPTERS OF BOOKS AND ENCYCLOPEDIA ARTICLES—23

D. PAPERS IN CONFERENCE PROCEEDINGS PUBLISHED AS BOOKS—80

E. PAPERS IN CONFERENCE PROCEEDINGS PUBLISHED AS REPORTS—113

F. U.S. PATENTS—13

G. LOS ALAMOS SCIENTIFIC LABORATORY REPORTS—270

H. PAPERS ISSUED AS LASL REPORTS BY TIC AND NTIS—256

I. PAPERS ISSUED AS REPORTS BY OTHERS—13

J. THESES—5

K. LASL REPORTS DECLASSIFIED IN 1975—104

WORDS EXCLUDED FROM KWIC INDEX

A
ABOUT
ABOVE
ABSENCE
ACCELERATED
ACCELERATING
ACCOMPANY
ACCOMPLISH
ACCORDANCE
ACHIEVED
ACHIEVEMENT
ACHIEVING
ACROSS
ACTUAL
ACTUALLY
AD
ADDITIONAL
ADVANCE
ADVANCED
AFFECT
AFFECTING
AFTER
AGAINST
AIRES
ALAMOS
ALL
ALLIED
ALMOST
ALSO
ALTERNATE
AMONG
AMOUNT
AN
AND
ANOTHER
ANTICIPATED
ANY
APPLICABLE
APPLICATION
APPLICATIONS
APPLIES
APPLY
APPLYING
APPROPRIATE
APPROVED
ARE
ARISING
ARRANGEMENTS
AS
ASSIGNED
ASSOCIATED
ASSOCIATION
AT
AUTHORIZED
BASED
BASIS
BE
BECAUSE
BEEN
BEING
BELOW
BETWEEN
BEYOND
BORNE
BOTH
BRIEF
BY
CA
CALIBRATED
CAN
CANNOT
CAPABILITY
CARLO
CARRIED
CAUSED
CENT
CERTAIN
CHARACTERISTICS
CIRCUMSTANCES
CLASSIFIED
CLASSIFY
CLOSE
CLOSELY
CLOSER
COMMENT
COMPLETE
COMPLETED
CONCERNED
CONCERNING
CONDITION
CONDITIONS
CONDUCTING
CONFIDENTIAL
CONSIDERATION
CONSIDERED
CONSTITUTE
CONTAIN
CONTAINED
CONTAINING
CONTEMPLATED
CONTEXT
COVERED
DAY TO DAY
DAYS
DE
DECLASSIFICATION
DECLASSIFIED
DEDUCIBLE
DEFINED
DEGREE
DEGREES
DER
DESCRIBED
DESCRIPTION
DESCRIPTIVE
DESIGNED
DESIRED
DETAILED
DETAILS
DETERMINATION
DETERMINATIONS
DETERMINED
DETERMINING
DEVELOP
DEVELOPED
DEVELOPING
DEVELOPMENTAL
DEVELOPMENTAL
DEVELOPMENTS
DIFFERENT
DIFFICULTIES
DIRECTLY
DISCERNIBLE
DISCLOSED
DO
DOCUMENTS
DOES
DUE
DURING
EACH
EARLY
ED
EITHER
ELABORATION
EMPHASIS
ENDED
ENDING
EQUAL
EQUALS
EQUIVALENT
ESTABLISHED
ETC,
EVALUATE
EVALUATED
EVALUATING
EVALUATION
EVEN
EXAMPLE
EXCEPT
EXISTENCE
EXISTING
EXPECT
EXPECTED
EXPLICITLY
FACT
FACTOR
FACTORS
FALLS
FAR
FEATURE
FEATURES
FEET
FOLLOWED
FOLLOWING
FOLLOWS
FOR
FOUR
FOURTH
FRD
FROM
FURTHER
FY
GATHER
GATHERING
GAVE
GENERAL
GIVE
GIVES
GOOD
GRAAFF
GREATER
HANDLED
HARD
HAS
HAVE
HAVING
HEATED
HELD
HIGHLY
HOC
HOT
HOWEVER
I
IDENTIFIABLE
IDENTIFICATION
IDENTIFIED
IDENTIFY
IF
II
III
IL
IMPLY
IMPLYING
IMPORTANCE
IMPORTANT
IMPROVED
IMPROVES
IMPROVING
IN
INCHES
INCLUDE
INCLUDED
INCLUDES
INCLUDING
INDICATED
INDICATES
INDICATING
INDIRECTLY
INDIVIDUAL
INTENDED
INTEREST
INTERESTED
INTERIM
INTO
INTRODUCED
INVESTIGATION
INVESTIGATIONS
INVOLVED
INVOLVING
IS
ISSUED
IT
ITEM
ITEMS
ITS
IV
IX
JUDGMENT
KELVIN
KNOWN
LARGE
LAST
LATE
LETER
LESS
LIKE
LISTED
LOCAL
LOCALIZED
LOOSE
LOOSELY
LOT
MADE
MAINTAIN
MAINTAINED
MAINTAINING
MAKES
MAKING
MEANS
MEASURES
MEET
MEETING
MENTION
MENTIONED
MERE
MIGHT
MILES
MILLION
MINUTE
MISCELLANEOUS
MODERN

MOVING
MUST
NAMELY
NATURE
NEAR
NEAREST
NEARLY
NECESSARY
NEEDED
NM
NO
NORMALLY
NOT
NOTE
NOTICE
NOVEL
NOW
NV
OBSERVATION
OBSERVED
OBTAINED
OCCURRED
OCCURRENCE
OF
OFFERED
OFFICERS
OFFICIAL
OFTEN
ON
ONLY
OR
ORGANIZATION
ORGANIZATIONS
OTHER
OTHERWISE
OUT
OUTSIDE
OVER
OVERALL
OVERRIDE
PAPERS
PARAALEL
PART
PARTIALLY
PARTICIPATING
PARTICIPATION
PARTICULAR
PARTICULARLY
PARTS
PAST
PER
PERCENT
PLACE
PLANNED
PLANNING
PLUS
POOR
POSSIBLE
POUNDS
PPM
PRACTICAL
XIV
PRECISE
PREDICTED
PRELIMINARY
PREPARED
PRESENCE
PRESENT
PRIOR
PROBLEMS
PROVIDE
PROVIDED
PROVIDING
PURPOSE
PURPOSES
REASON
RECENT
REFER
REFERS
REGARDING
RELATED
RELATING
RELATIONSHIP
REQUIRE
REQUIRED
REQUIREMENT
REQUIREMENTS
RESOLVE
RESULTING
RESULTS
REVEAL
REVEALED
REVEALING
REVEALS
REVISED
SAME
SATISFACTORY
SECRET
SECTION
SECTIONS
SEE
SEEN
SELECTED
SHOULD
SIMILAR
SIMILARITY
SIMPLE
SIMULTANEOUS
SIX
SIXTEEN
SLOW
SLOWLY
SO
SOME
SPECIFIED
STATEMENT
STATEMENTS
STUDY
SUBJECT
SUBMITTED
SUBSEQUENT
SUBTLE
SUCH
SUMMARIZING
TAKES
TERA
TERM
TERMS
THAN
THAT
THE
THEIR
THEM
THERE
THEREFORE
THEREOF
THESE
THEY
THIS
THOSE
THREE
THROUGH
TO
TOPIC
TOPICS
TRANS-1
TWELVE
TYPE
TYPES
UNCLASSIFIED
UND
UNDER
UNLESS
UP
USE
USED
USEFUL
USING
V
VARIOUS
VERY
VI
VIA
VII
VIIII
VOL
WAALS
WAS
WAYS
WE
WERE
WHEN
WHERE
WHETHER
WHICH
WHOSE
WHY
WILL
WITH
WITHIN
WITHOUT
WORK
WOULD
XII

KEYWORD-IN-CONTEXT (KWIC) INDEX

A-A-T
CONFORMATION OF POLY D(A-A-T)-D(A-T-T). 5-47

A-T-T
CONFORMATION OF POLY D(A-A-T)-D(A-T-T). 5-47

ABLATION
STEADY ABLATION OF LASER TARGETS IN SPHERICAL GEOMETRY. 1. THE MODEL. 20-140

STEADY ABLATION OF LASER TARGETS IN SPHERICAL GEOMETRY. 2. PHYSICAL RESULTS. 20-141

ABLATIVE
STRUCTURE AND SCALING LAWS OF LASER DRIVEN ABLATIVE IMPLOSIONS. 20-144

GENERATION OF LASER PULSES FOR OPTIMUM ABLATIVE COMPRESSIONS. 20-47

ABLATOR
LASER - FUSION TARGET FABRICATION: APPLICATION OF A POLYMERIC ABLATOR COATING TO A BALL AND DISK TARGET DESIGN BY THE PHYSICAL VAPOR DEPOSITION OF POLYETHYLENE. 20-66

ABNORMAL
STABLE ISOTOPE TECHNOLOGY AND ABNORMAL MAMMALIAN EMBRYONIC DEVELOPMENT. 5-137

ABORT
SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE II: SOLID PROPELLANT FIRE. 17-52

SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE III: FSA (FUEL SPHERE ASSEMBLY) IMPACTS. 17-53

ABRIDGED
DIFFUSION OF A PASSIVE SCALAR AT LARGE PRANDTL NUMBER ACCORDING TO THE ABRIDGED LAGRANGIAN INTERACTION THEORY. 18-10

ABSOLUTE
.ABSOLUTE INTENSITIES OF THE OUTER CORONA FROM THE JUNE 30, 1973 TOTAL SOLAR ECLIPSE. 3-1

ABSORBED
OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 1. CANTED AND PARALLEL MIRRORS. 20-107

OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 2. PARALLEL MIRRORS, MULTITRAVEL. 20-108

OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 3. ASYMMETRIC CONFOCAL RESONATOR. 20-109

ABSORBERS
ANALYTIC TRANSPORT THEORY SOLUTIONS FOR STEADY SOURCES IN PURE ABSORBERS. 24-1

ABSORPTION
DRIFT COMPENSATING INTEGRATOR FOR MEASUREMENT OF TRANSIENT ATOMIC ABSORPTION SIGNALS. 2-13

COMPARISON OF LOCKHEED AND AFWL BASED ABSORPTION COEFFICIENTS FOR AIR. 4-10

OSCILLATOR STRENGTHS FROM LINE ABSORPTION IN A HIGH TEMPERATURE FURNACE. 2. THE (0,0) BAND OF THE B(2)SIGMA(+) -X(2)SIGMA (+) TRANSITION IN CYANOGEN. 4-48

HOT ELECTRON PRODUCTION, ANOMALOUS ABSORPTION AND EFFECT OF INTENSE ELECTROMAGNETIC FIELDS ON INVERSE BREMSSTRAHLUNG ABSORPTION NEAR THE ELECTRON PLASMA FREQUENCY. 10-50

ABSORPTION SPECTRUM OF URANIUM HEXAFLUORIDE FROM 2500 TO 4200 ANGSTROMS. 20-1

OBSERVATIONS OF EXCITED STATE ABSORPTION IN ED-2 NEODYMIUM GLASS. 20-106

BETA ABSORPTION IN TRITIATED TARGETS AND X RAY COUNTING CORRECTIONS. 20-11

SURFACE WAVE ABSORPTION. 20-146

TEMPERATURE DEPENDENT ABSORPTION SPECTRUM OF THE NU(3) BAND OF SULFUR HEXAFLUORIDE AT 10.6 MICRONS. 20-150

THEORY AND SIMULATION OF RESONANT ABSORPTION IN A HOT PLASMA. 20-152

ALPHA PARTICLE ENERGY ABSORPTION IN A REACTING DEUTERIUM - TRITIUM SPHERE. 20-3

ISOTOPIC ENRICHMENT BY MULTIPLE ABSORPTION OF CARBON DIOXIDE LASER RADIATION. 20-63

ISOTOPIC ENRICHMENT OF SULFUR HEXAFLUORIDE IN SULFUR -34 BY MULTIPLE ABSORPTION OF CARBON DIOXIDE LASER RADIATION. 20-64

LASER INDUCED INSTABILITIES AND ANOMALOUS ABSORPTION IN DENSE PLASMAS. 20-76

PI - MESON ABSORPTION ON THE DEUTERON. 22-40

THERMAL NEUTRON CAPTURE AND ABSORPTION CROSS SECTIONS FOR NICKEL -59. 25-220

ABSTRACTION
ABSTRACTION VERSUS EXCHANGE IN THE REACTION OF HYDROGEN WITH DEUTERIUM BROMIDE. 8-1

ABSTRACTS
HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS. 25-94

ABSULUTE
ABSULUTE CROSS SECTIONS FOR PRODUCTION OF PROMPT NUCLEAR GAMMA RAYS BY FAST PIONS. 25-7

ABUNDANCE
NEUTRON MEASUREMENTS OF URANIUM -234 ISOTOPIC ABUNDANCE IN URANIUM HEXAFLUORIDE SAMPLES. 26-11

ABUNDANCES
SOLAR WIND HEAVY ION ABUNDANCES. 1-25

DETERMINATION OF OXYGEN -17 AND OXYGEN -18 ISOTOPIC ABUNDANCES IN PLUTONIUM -238 MATERIALS BY GAMMA RAY SPECTROMETRY. 2-9

FOURIER TRANSFORM CARBON -13 NUCLEAR MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 1. EQUILIBRIUM QUOTIENTS FROM RELATIVE ABUNDANCES OF SOLUTION SPECIES. 14-7

AC
CIRCULAR DICHROISM SPECTRA OF POLY D(AC)-D(GT)*, POLY R(AC)-R(GU)*, AND HYBRIDS POLY D(AC)-R(GU)* AND POLY R(AC)-D(GT)* IN THE PRESENCE OF ETHANOL. 5-40

ACCELERATION
PARTICLE ACCELERATION NEAR AN ACCRETING BLACK HOLE. 3-33

COMPUTER SIMULATION OF COLLECTIVE ION ACCELERATION BY RELATIVISTIC ELECTRON BEAMS. 10-9

COLLECTIVE ION ACCELERATION VIA THE TWO STREAM INSTABILITY. 20-12

ION ACCELERATION BY THE RELATIVISTIC TWO STREAM INSTABILITY. 20-59

ACCELERATOR
INCREASING THE RELEVANCE OF DATA PRESENTED TO THE OPERATORS IN AN ACCELERATOR CONTROL SYSTEM. 22-19

ROLE OF THE SMALL ACCELERATOR IN THE NONDESTRUCTIVE ASSAY LABORATORY. 26-24

100 MHZ POWER AMPLIFIER DESIGN AND CONTROL FOR A HEAVY ION ACCELERATOR. 27-1

ACCELERATORS
DESIGN STUDIES OF HEAVY ION LINEAR ACCELERATORS CONSTRUCTED OF INDEPENDENTLY PHASED SPIRAL RESONATORS. 27-3

ACCEPTANCE
SPECTRAL ACCEPTANCE FOR SECOND HARMONIC GENERATION IN CD*A (CESIUM DIDEUTERIUM ARSENATE). 20-137

ACCIDENT
IODINE -131 RELEASE FROM AN HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) DURING THE LOFC (LOSS OF COOLANT) ACCIDENT. 17-30

FURTHER CONSIDERATIONS ON THE LOF-DRIVEN TOP ACCIDENT FOR LMFBRS. 28-15

ACCIDENTS
EFFECTS OF NEUTRON STREAMING AND GEOMETRIC MODELS ON MOLTEN FUEL RECRITICALITY ACCIDENTS. 24-10

EFFECTS OF NEUTRON STREAMING AND GEOMETRIC MODELS ON MOLTEN FUEL RECRITICALITY ACCIDENTS. 24-11

ACCORDING
DIFFUSION OF A PASSIVE SCALAR AT LARGE PRANDTL NUMBER ACCORDING TO THE ABRIDGED LAGRANGIAN INTERACTION THEORY. 18-10

ACCOUNTABILITY
GUIDE TO GAMMA RAY ASSAY FOR NUCLEAR MATERIAL ACCOUNTABILITY 26-8

ACCOUNTING
CHIT: A COST ACCOUNTING PROGRAM FOR POSTIRRADIATION EXAMINATIONS OF FAST BREEDER REACTOR MATERIALS. 2-5

ACCRETING
PARTICLE ACCELERATION NEAR AN ACCRETING BLACK HOLE. 3-33

ACCRETION
GAMMA RAY BURSTS FROM BLACK HOLE ACCRETION DISKS. 3-16

ACCURACY
ACCURACY OF THE WHITE BOUNDARY CONDITION IN R-Z GEOMETRY. 18-1

ACCURATE
NEW AND MORE ACCURATE METHOD FOR THE DIRECT MEASUREMENTS OF EARTH TEMPERATURE GRADIENTS IN DEEP BOREHOLES. 11-33

ACETIC
FOURIER TRANSFORM CARBON -13 MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 2. LIGAND SUBSTITUTION PROCESSES. 7-7

FOURIER TRANSFORM CARBON -13 NUCLEAR MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 1. EQUILIBRIUM QUOTIENTS FROM RELATIVE ABUNDANCES OF SOLUTION SPECIES 14-7

ACETYLENE
DISSOCIATIVE EXCITATION CHANNELS IN THE INTERACTION OF ARGON(3-P-0,2) AND HELIUM (2-3-S) METASTABLE ATOMS WITH METHANE, ETHYLENE, ACETYLENE, AND BENZENE. 6-6

ACID
FOURIER TRANSFORM CARBON -13 MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 2. LIGAND SUBSTITUTION PROCESSES. 7-7

FOURIER TRANSFORM CARBON -13 NUCLEAR MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 1. EQUILIBRIUM QUOTIENTS FROM RELATIVE ABUNDANCES OF SOLUTION SPECIES. 14-7

ACIDITY
COKING YIELD AND THE ACIDITY OF CARBON BLACK. 23-6

ACOUSTIC
ACOUSTIC MEASURING SYSTEM FOR DETERMINING THE BREAKING STRENGTH OF MICROBALLOONS. 20-2

ACQUISITION
REMOTE TRANSIENT DATA ACQUISITION SYSTEM. 21-09

ACTINIDE
ELECTRON CONFIGURATIONS AND BONDING IN THE EARLY ACTINIDE METALS. 4-15

PLUTONIUM AND OTHER ACTINIDE ELEMENTS IN GONADAL TISSUE OF MAN AND ANIMALS. 5-114

SPLAT COOLING OF SOME ACTINIDE ALLOYS. 23-55

MEASUREMENT AND INTERPRETATION OF GAMMA(N)/GAMMA(F) FOR ACTINIDE NUCLEI. 25-111

MUON LIFETIME MEASUREMENTS IN THE ACTINIDE ELEMENTS. 25-124

GAMMA(F)/GAMMA(N) FOR ACTINIDE NUCLEI. 25-86

ACTINIDES
(NEUTRON, FISSION) CROSS SECTIONS FOR EXOTIC ACTINIDES. 25-1

NUCLEAR CHARGE PARAMETERS FOR THE ODD-A ACTINIDES URANIUM -235 AND PLUTONIUM -239. 25-141

ACTIVATED
TRANSFER OF MOUSE IGG2 PRODUCTION BY IGM BEARING SPLEEN CELLS SEPARATED BY A FLUORESCENCE ACTIVATED CELL SORTER. 5-141

ADSORPTION OF RADIOKRYPTON ON ACTIVATED CHARCOAL IN THE PRESENCE OF HYDROGEN. 27-2

ACTIVATION
MOLECULAR ACTIVATION ANALYSIS. 2-16

B LYMPHOCYTE ACTIVATION AND LATTICE FORMATION. 5-9

ON THE THERMAL RATE COEFFICIENT AND ACTIVATION ENERGY OF THE IODINE + IODINE(2) ATOM EXCHANGE REACTION. 6-12

SHIELDING AND ACTIVATION OF A THETA PINCH FUSION TEST REACTOR (TPFTR). 10-124

DEUTERIUM - TRITIUM FUSION REACTOR ACTIVATION AND AFTERHEAT. 10-19

ACTIVATION STUDIES OF PION INDUCED REACTIONS ON CARBON, NITROGEN, OXYGEN, FLUORINE, ALUMINUM AND COPPER. 25-8

ACTIVE
ACTIVE CORRECTIVE ELEMENT FOR HIGH RESOLUTION MAGNETIC OPTICS. 22-2

ACTIVITIES
SOLID EARTH GEOSCIENCES RESEARCH ACTIVITIES AT LASL, JANUARY 1 - JUNE 30, 1975. 11-53

SOLID EARTH GEOSCIENCES RESEARCH ACTIVITIES AT LASL, JULY 1 - DECEMBER 31, 1974. 11-54

ENERGY RELATED ACTIVITIES AT THE LOS ALAMOS SCIENTIFIC LABORATORY. 30-23

ACTIVITY
REGULATION OF ADENYLATE CYCLASE ACTIVITY BY CELL SURFACE HYALURONATE IN HUMAN LIMB MESENCHYMAL CELLS IN VITRO. 5-126

CESIUM -137 ACTIVITY IN A NORMAL NEW MEXICO POPULATION: 1956-1973. 5-33

FAULT ACTIVITY AND SEISMICITY NEAR THE LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST SITE, JEMEZ MOUNTAINS, NEW MEXICO 11-15

MEASUREMENT OF TRANSURANIC SOLID WASTES AT THE 10-NCI/G ACTIVITY LEVEL. 30-46

MEASUREMENT OF TRANSURANIC SOLID WASTES AT THE 10-NCI/G ACTIVITY LEVEL. 30-47

PACER PROGRAM. FY 1974 LASL ACTIVITY. REFERENCES. 30-57

ADAPTED
CLIMATICALLY ADAPTED STRUCTURES. 12-2

MASSIVE SHIELDING ADAPTED TO REMOTE MAINTENANCE METHODS. 22-26

ADAPTIVE
ADAPTIVE CONTROL TECHNIQUES FOR ON-AXIS RADARS. 13-1

ADDING
EFFECTS OF ADDING HYDROGENOUS MATERIAL TO KIWI REACTORS. 30-21

ADDITION
REVERSIBLE SULFUR DIOXIDE ADDITION TO COPPER(I) PHOSPHINE COMPLEXES 7-17

ADDUCTS
PHOTO INDUCED DNA PROTEIN ADDUCTS IN CHINESE HAMSTER OVARY CELL CHROMATIN 5-110

ADENOSYLCOBALAMIN
CARBON -13 NUCLEAR MAGNETIC RESONANCE STUDIES OF ADENOSYLCOBALAMIN AND ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13 10-4

ADENYLATE
REGULATION OF ADENYLATE CYCLASE ACTIVITY BY CELL SURFACE HYALURONATE IN HUMAN LIM5 MESENCHYMAL CELLS IN VITRO 5-126

ADI
ENGINEERING APPLICATIONS OF ADI (ALTERNATING - DIRECT - IMPLICIT) METHODS TO PIECEWISE LINEAR MULTIDIMENSIONAL HEAT TRANSFER. 21-31

ADIABATIC
USE OF ADIABATIC DEMAGNETIZATION TO MEASURE THE ELECTRIC FIELD GRADIENT IN CADMIUM. 8-57

APPROXIMATE SOLUTION OF THE ADIABATIC EXPLOSION PROBLEM. 15-1

ADJACENT
ADJACENT CONDUCTOR FIELD CORRECTIONS TO HIGH CRITICAL CURRENT SHORT SAMPLE MEASUREMENTS. 8-3

ADJUSTMENT
TECHNIQUE FOR SIMULTANEOUS ADJUSTMENT OF LARGE NUCLEAR DATA LIBRARIES 25-215

CONSISTENCY AMONG DIFFERENTIAL NUCLEAR DATA AND INTEGRAL OBSERVATIONS. THE ALVIN CODE FOR DATA ADJUSTMENT, FOR SENSITIVITY CALCULATIONS, AND FOR IDENTIFICATION OF INCONSISTENT DATA 25-36

ADSORPTION
ADSORPTION OF RADIOKRYPTON ON ACTIVATED CHARCOAL IN THE PRESENCE OF HYDROGEN 27-2

ADVANCES
INSTRUMENTATION. 1974. 20TH INTERNATIONAL SYMPOSIUM, ALBUQUERQUE, NM. PROCEEDINGS, INSTRUMENTATION IN THE AEROSPACE INDUSTRY, V.20, ADVANCES IN TEST MEASUREMENT, V.11. 19-9

AEC
PROGRESS REPORT RESPIRATOR STUDIES FOR THE AEC DIRECTORATE OF REGULATORY STANDARDS, JANUARY 1 THROUGH JUNE 30, 1974. 17-46

INTEGRATING ECLIPSE OPTICS INTO THE AEC AIR FORCE FLYING LABORATORY 19-10

AERIAL
RADIATION DOSE TO BE EXPECTED FROM AERIAL PENETRATION OF AN ATOMIC CLOUD 30-72

AEROSOL
USE OF TWO ANGLE ELASTIC AND RAMAN SCATTERING TO OBTAIN MOLECULAR DENSITY AND AEROSOL SCATTERING PROFILES. 1-31

AEROSOL RESEARCH AND DEVELOPMENT RELATED TO HEALTH HAZARD ANALYSIS LASL PROJECT R-038, APRIL 1 THROUGH JUNE 30, 1972. 17-1

AEROSOLS
PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS FOR PERIOD JULY 1 THROUGH DECEMBER 31, 1972. 17-36

PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS FOR THE PERIOD MARCH 1 THROUGH JUNE 30, 1972. 17-37

PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS. 17-38

CYCLONE SAMPLING OF FIBROUS GLASS AEROSOLS. 17-7

AEROSPACE
AEROSPACE INSTRUMENTATION. 1973 19TH INTERNATIONAL SYMPOSIUM, LAS VEGAS, NV PROCEEDINGS, INSTRUMENTATION IN THE AEROSPACE INDUSTRY, V.19 19-1

AEROSPACE INSTRUMENTATION. 1973 19TH INTERNATIONAL SYMPOSIUM, LAS VEGAS, NV PROCEEDINGS, INSTRUMENTATION IN THE AEROSPACE INDUSTRY, V.19 19-1

INSTRUMENTATION. 1974. 20TH INTERNATIONAL SYMPOSIUM, ALBUQUERQUE, NM. PROCEEDINGS, INSTRUMENTATION IN THE AEROSPACE INDUSTRY, V.20, ADVANCES IN TEST MEASUREMENT, V.11 19-9

AFT
FORE - AFT ANISOTROPY IN THE RADIATIVE CAPTURE OF 14 MEV NEUTRONS 25-82

AFTERHEAT
DEUTERIUM - TRITIUM FUSION REACTOR ACTIVATION AND AFTERHEAT. 10-19

AFWL
COMPARISON OF LOCKHEED AND AFWL BASED ABSORPTION COEFFICIENTS FOR AIR 4-1

AGE
AGE OF HR21 AND CSR2021+51. 3-2

AGE RESPONSE FOR LINE CHO CHINESE HAMSTER CELLS EXPOSED TO X IRRADIATION AND ALPHA PARTICLES FROM PLUTONIUM. 5-1

CELL AGE DISTRIBUTION STUDY OF LSA ASCITES LYMPHOMA DURING GROWTH 5-18

ANALYSIS OF CELL AGE DISTRIBUTION DURING ASCITES TUMOR GROWTH. 5-2

AGENTS
DIFFERENTIAL EFFECTS OF TWO CHEMOTHERAPEUTIC AGENTS, STREPTOZOTOCIN AND CHLOROZOTOCIN, ON THE MAMMALIAN CELL CYCLE 5-54

AGGREGATES
SYSTEMATIC AND GRAPHICAL METHOD FOR GENERATING THE KINETIC EQUATIONS GOVERNING THE GROWTH OF AGGREGATES 6-16

AGING
EFFECT OF STRAIN AGING ON THE DYNAMIC ELASTIC - PLASTIC PROPERTIES OF IRON. 23-13

AIDED
COMPUTER AIDED DESIGN OF ELECTRONIC CIRCUITRY 21-18

AIR
COMPARISON OF LOCKHEED AND AFWL BASED ABSORPTION COEFFICIENTS FOR AIR 4-10

CHEMISTRY COMPUTATIONS FOR IRRADIATED HOT AIR. 6-3

CHEMICAL EQUILIBRIA IN HOT AIR WITH MOISTURE, SALT, AND VAPORIZED METAL CONTAMINANTS. 7-2

DESIGN CONSIDERATIONS OF AIR COOLED COLLECTOR/ROCK-BIN STORAGE SOLAR HEATING SYSTEMS. 12-4

FEASIBILITY OF USING AMATEX IN AIR FORCE SUBMUNITIONS, FEBRUARY 15 - NOVEMBER 30, 1974. 15-11

DESIGN OF VENTILATION AND AIR CLEANING SYSTEMS FOR THE NEW LOS ALAMOS PLUTONIUM FACILITY. 17-10

DETERMINATION OF 3,3'- DICHLORO -4,4'-DIAMINODIPHENYLMETHANE IN AIR 17-11

DEVELOPMENT OF A MULTISTAGE AIR SAMPLER FOR MERCURY. 17-12

DEVELOPMENT OF AIR SAMPLING TECHNIQUES, LASL PROJECT R-059, NIOSH-IA-74-10, APRIL 1 - SEPTEMBER 30, 1974. 17-13

EVACUATED REFRIGERANT CONTAINER AS A SOURCE OF VACUUM FOR AIR SAMPLING 17-26

MONITOR FOR TRITIUM IN AIR CONTAINING OTHER BETA EMITTERS. 17-31

PERSONAL AIR SAMPLING FOR VAPORS OF ANILINE COMPOUNDS. 17-39

PURPOSES AND FUNCTIONS OF AIR SAMPLING PROGRAMS. 17-47

SPECIFICATIONS AND TEST PROCEDURES FOR AIRLINE TYPE SUPPLIED AIR SUITS. 17-56

THEORETICAL AND EXPERIMENTAL STUDIES OF STRONG SHOCK WAVES IN AIR. 18-48

DEBRIS - AIR INTERACTIONS AND THEIR EFFECTS ON RADAR CLUTTER. 18-7

INTEGRATING ECLIPSE OPTICS INTO THE AEC AIR FORCE FLYING LABORATORY. 19-10

SELF FOCUSING PHENOMENA IN AIR - GLASS LASER STRUCTURES. 20-136

COMPILATION OF SPECTROSCOPIC OBSERVATION OF AIR AROUND ATOMIC BOMB EXPLOSIONS. 30-13

RATIONAL DYNAMIC LOADS ANALYSIS FOR AIR CUSHION VEHICLES IN RANDOM SEAWAY OR TERRAIN. 30-76

AIRBORNE
CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES. 1. AIRBORNE INSTRUMENTATION AND RESULTS. 3-10

AIRLINE
SPECIFICATIONS AND TEST PROCEDURES FOR AIRLINE TYPE SUPPLIED AIR SUITS. 17-56

ALASKA
ANAKTUVUK PASS, ALASKA VILLAGE CENSUS. 29-1

ALBEDO
NUMERICAL EVALUATION OF THE AZIMUTHALLY DEPENDENT ALBEDO PROBLEM IN SLAB GEOMETRY. 21-55

ALBITE
ALBITE ALTERATION IN A SODIUM CARBONATE SOLUTION. 11-2

ALBUQUERQUE
INSTRUMENTATION. 1974. 20TH INTERNATIONAL SYMPOSIUM, ALBUQUERQUE, NM. PROCEEDINGS, INSTRUMENTATION IN THE AEROSPACE INDUSTRY, V.20, ADVANCES IN TEST MEASUREMENT, V.11. 19-9

ALE
LASL CALCULATIONS OF LOW ALTITUDE FIREBALLS USING THE ICED ALE METHOD. 18-21

THREE DIMENSIONAL MULTIBURST SIMULATION USING THE ICED ALE METHOD. 18-50

ALGEBRA
REPRESENTATIONS OF A LOCAL CURRENT ALGEBRA. THEIR DYNAMICAL DETERMINATION 21-70

APPROXIMATE REPRESENTATIONS OF A LOCAL CURRENT ALGEBRA. 21-8

DIRECT USE OF YOUNG TABLEAU ALGEBRA TO GENERATE THE CLEBSCH-GORDAN COEFFICIENTS OF SU(2)*. 27-4

ALGEBRAIC
CONTINUED FRACTION EXPANSION OF ALGEBRAIC NUMBERS. 21-26

ALGORITHM
GENERAL NUMERICAL FLUID DYNAMICS ALGORITHM FOR ASTROPHYSICAL APPLICATIONS 3-17

PENTAERYTHRITOL TETRANITRATE II: ITS CRYSTAL STRUCTURE AND TRANSFORMATION TO PETN I: AN ALGORITHM FOR REFINEMENT OF CRYSTAL STRUCTURES WITH POOR DATA. 9-17

GENERAL FLUID DYNAMICS ALGORITHM FOR ASTROPHYSICAL APPLICATIONS. 18-17

SOLA A NUMERICAL SOLUTION ALGORITHM FOR TRANSIENT FLUID FLOWS. 18-47

GAUSSIAN ELIMINATION FOR DENSE SYSTEMS ON STAR AND A NEW PARALLEL ALGORITHM FOR DIAGONALLY DOMINANT TRIDIAGONAL SYSTEMS. 21-36

ALGORITHMS
ALGORITHMS TO REVEAL GRAPHIC TERMINAL CHARACTERISTICS. 21-1

ALGORITHMS TO REVEAL THE REPRESENTATION OF CHARACTERS, INTEGERS AND FLOATING POINT NUMBERS. 21-2

ALKALINE
PROCEDURE FOR THE RAPID LYSIS OF MAMMALIAN CELLS PRIOR TO ALKALINE SUCROSE DENSITY GRADIENT CENTRIFUGATION. 5-119

ALKYLCORRINOIDS
CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13: THE EFFECT OF TEMPERATURE AND LIGHT. 14-1

CARBON -13 NUCLEAR MAGNETIC RESONANCE STUDIES OF ADENOSYLCOBALAMIN AND ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13. 14-4

ALLCAL
ALLCAL: AN INTERACTIVE BASIC PROGRAM FOR SPECTROCHEMICAL CALCULATIONS. 2-1

ALLOY
EVIDENCE FOR THE EXISTENCE OF FAULTING IN A SPLAT COOLED DELTA PLUTONIUM(TITANIUM) ALLOY. 9-10

FRACTURE BEHAVIOR OF A PLATINUM(30 PERCENT) RHENIUM(8 PERCENT) TUNGSTEN ALLOY BETWEEN ROOM TEMPERATURE AND 1300 DEGREES CELSIUS. 23-22

DEGRADATION OF PIONEER TYPE TANTALUM ALLOY - PLUTONIUM DIOXIDE HEAT SOURCES. 23-9

ALLOYING
ELEVATED TEMPERATURE STRENGTHENING OF MELT GROWN SAPPHIRE BY ALLOYING. [illegible]

ALLOYS
DETERMINATION OF ZIRCONIUM IN PLUTONIUM -ZIRCONIUM ALLOYS. 2-11

PHONON THERMAL CONDUCTIVITY OF SUPERCONDUCTING LEAD - THALLIUM ALLOYS. 8-35

SPONTANEOUS MAGNETIC ORDER IN EXTREMELY DILUTE GOLD - IRON ALLOYS. 8-42

INDUCED PARAMAGNETISM IN URANIUM ALLOYS: A BORON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY OF ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND YTTRIUM TETRABORIDE. 14-8

INDUCED PARAMAGNETISM IN URANIUM ALLOYS: A BORON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY OF ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND YTTRIUM TETRABORIDE. 14-8

SPLAT COOLING OF SOME ACTINIDE ALLOYS. 23-55

STRENGTHENING OF LIQUID SINTERED TUNGSTEN ALLOYS. 23-56

ALONG
THERMAL CONDUCTION ALONG STRAIGHT THETA PINCHES AND PLASMA COLUMNS. 10-145

LINEAR THEORY OF A COLD RELATIVISTIC BEAM PROPAGATING ALONG AN EXTERNAL MAGNETIC FIELD. 20-85

ALPHA
ELECTRONIC STRUCTURE OF ALPHA PRIME CERIUM. 4-20

PROPOSAL REGARDING THE ELECTRONIC STRUCTURE OF ALPHA - CERIUM. 4-51

AGE RESPONSE FOR LINE CHO CHINESE HAMSTER CELLS EXPOSED TO X IRRADIATION AND ALPHA PARTICLES FROM PLUTONIUM. 5-1

FLUORESCENCE LIFETIMES OF ALPHA AND BETA CAROTENES. 5-68

PRESSURE PROFILES IN A THERMONUCLEAR PLASMA SHEATH CONTAINING ENERGETIC ALPHA PARTICLES. 10-106

DEVELOPMENT OF AN ALPHA PARTICLE AND PROTON DETECTOR FOR LASER - FUSION STUDIES. 20-23

ALPHA PARTICLE ENERGY ABSORPTION IN A REACTING DEUTERIUM - TRITIUM SPHERE. 20-3

MEASUREMENTS OF ALPHA PARTICLES AND PROTONS, PRODUCED FROM LASER FUSION. 20-89

ESTIMATE OF THE (Z-ALPHA)2 - ALPHA -2 VACUUM POLARIZATION TERM IN MUONIC LEAD. 22-13

EFFECT OF STRAIN RATE ON THE TENSILE PROPERTIES OF ALPHA AND DELTA STABILIZED PLUTONIUM. 23-14

SEARCH FOR ALPHA DECAY IN NATURAL OSMIUM -186. 25-200

CALCIUM -40 (NEUTRON,ALPHA) ARGON -37 CROSS SECTION FROM 3 TO 14 7 MEV 25-23

2P-1H STATES IN LEAD -209 EXCITED BY THE METASTABLE BISMUTH -210 (TRITON, ALPHA) REACTION. 25-5

ELASTIC SCATTERING OF 7-12 MEV TRITONS BY ALPHA PARTICLES. 25-57

FAST PION INDUCED PROCESSES IN COMPLEX NUCLEI: CROSS SECTION AND ALPHA REMOVAL. 25-79

ALPHA-0
KILOVOLT SULFUR -33 (NEUTRON,ALPHA-0) AND SULFUR -33 (NEUTRON,GAMMA) CROSS SECTIONS: IMPORTANCE IN THE NUCLEOSYNTHESIS OF THE RARE NUCLEUS SULFUR -36. 25-101

ALTERATION
ALBITE ALTERATION IN A SODIUM CARBONATE SOLUTION. 11-2

MONZO-GRANITE ALTERATION IN A HYDROTHERMAL SYSTEM. 11-31

ALTERNATING
ALTERNATING DIRECTION GALERKIN METHODS FOR PARABOLIC AND HYPERBOLIC PROBLEMS ON RECTANGULAR POLYGONS 21-3

ENGINEERING APPLICATIONS OF ADI (ALTERNATING - DIRECT - IMPLICIT) METHODS TO PIECEWISE LINEAR MULTIDIMENSIONAL HEAT TRANSFER. 21-31

ALTITUDE
HIGH ALTITUDE LOSS CONE AND CHARGE EXCHANGE CALCULATIONS, AND COMPARISON WITH STARFISH DATA. 4-26

ULTRAVIOLET CHARGE EXCHANGE ENERGY LOSS PARTITION AS A FUNCTION OF BURST ALTITUDE AND YIELD TO MASS RATIO. 4-68

EFFECTS OF TURBULENCE ON LOW ALTITUDE FIREBALLS AT LATE TIMES. 18-12

LASL CALCULATIONS OF LOW ALTITUDE FIREBALLS USING THE ICED ALE METHOD 18-21

LOW ALTITUDE FIREBALL CALCULATIONS. 1. COMPARISONS WITH DATA FOR DOMINIC EVENTS. 18-23

ALUMINUM
SPECTROPHOTOMETRIC DETERMINATION OF PLUTONIUM IN SOLUTIONS CONTAINING LARGE AMOUNTS OF ALUMINUM, CALCIUM, AND MAGNESIUM 2-27

MACH WAVES AND REFLECTED RAREFACTIONS IN ALUMINUM. 4-35

RADIATION EFFECTS ON THE LATTICE CONSTANTS OF SINGLE CRYSTAL ALUMINUM DIOXIDE. 9-19

NEUTRON ENERGY DEPENDENCE OF DEFECT PRODUCTION CROSS SECTIONS IN COPPER AND ALUMINUM 10-84

REFLECTED RAREFACTIONS, DOUBLE REGULAR REFLECTIONS, AND MACH WAVES IN ALUMINUM AND BERYLLIUM. 18-39

HIGH ENERGY PROTON SIMULATION OF 14 MEV NEUTRON DAMAGE IN ALUMINUM OXIDE. 23-28

ON THE DIFFUSION OF DIVALENT IMPURITIES IN ALUMINUM 23-43

ONE DIMENSIONAL ELASTIC - PLASTIC CALCULATIONS INVOLVING STRAIN HARDENING AND STRAIN RATE EFFECTS FOR ALUMINUM. 23-44

ONE DIMENSIONAL ELASTIC - PLASTIC CALCULATIONS INVOLVING STRAIN HARDENING AND STRAIN RATE EFFECTS FOR ALUMINUM. 23-45

RESEARCH ON CARBON - ALUMINUM COMPOSITES, JANUARY 1 - JUNE 30, 1975. 23-50

EXCITATION ENERGIES OF LEVELS IN ALUMINUM -27 AND SILICON -28 23-72

ACTIVATION STUDIES OF PION INDUCED REACTIONS ON CARBON, NITROGEN, OXYGEN, FLUORINE, ALUMINUM AND COPPER. 25-8

ANALOGS OF THE SILICON -28 COLLECTIVE M1 STATES OBSERVED IN THE SILICON -28 (TRITON,HELIUM -3) ALUMINUM -28 REACTION 25-9

ALVIN
CONSISTENCY AMONG DIFFERENTIAL NUCLEAR DATA AND INTEGRAL OBSERVATIONS: THE ALVIN CODE FOR DATA ADJUSTMENT, FOR SENSITIVITY CALCULATIONS, AND FOR IDENTIFICATION OF INCONSISTENT DATA. 25-36

AM
SPIN LATTICE RELAXATION IN AN AM(XN) SYSTEM: APPLICATION TO CARBON -13 RELAXATION IN ENRICHED MOLECULES. 14-11

AMATEX
FEASIBILITY OF USING AMATEX IN AIR FORCE SUBMUNITIONS, FEBRUARY 15 - NOVEMBER 30, 1974. 15-11

AMBIPOLAR
EFFECT OF THE AMBIPOLAR ELECTRIC FIELD ON THE TRANSPORT OF ENERGETIC ELECTRONS. 20-31

AMERICIUM
KINETICS OF THE OXIDATION - REDUCTION REACTIONS OF URANIUM, NEPTUNIUM, PLUTONIUM AND AMERICIUM IN AQUEOUS SOLUTIONS. 7-10

QUANTITATIVE SEPARATION OF AMERICIUM AND PLUTONIUM USING CUPFERRON. 7-14

MASS AND KINETIC ENERGY MEASUREMENTS OF FRAGMENTS FROM THE ISOMERIC AND EXCITED STATE FISSION OF AMERICIUM -242. 16-7

PLUTONIUM, AMERICIUM AND URANIUM CONCENTRATIONS IN NEVADA TEST SITE SOIL PROFILES. 17-43

STUDIES OF PLUTONIUM, AMERICIUM, AND URANIUM IN ENVIRONMENTAL MATRICES. 17-58

AMINES
SPOT TEST LIMIT OF DETECTION VALUES FOR CARCINOGENIC AROMATIC AMINES AND THEIR HOMOLOGUES AND ANALOGUES. 17-57

AMMONIA
SHOCK COMPRESSION OF LIQUID AMMONIA. 18-42

AMOUNTS
SPECTROPHOTOMETRIC DETERMINATION OF PLUTONIUM IN SOLUTIONS CONTAINING LARGE AMOUNTS OF ALUMINUM, CALCIUM, AND MAGNESIUM. 2-27

AMPLIFICATION
DIFFRACTION EFFECTS AND OPTICAL QUALITY IN THE MULTISTAGE AMPLIFICATION OF NANOSECOND CARBON DIOXIDE PULSES. 20-24

AMPLIFICATION OF MULTILINE/MULTIBAND CARBON DIOXIDE LASER PULSES. 20-4

AMPLIFICATION OF THE 1.32 MICRON LINE IN NEODYMIUM - YAG. 10-5

MULTILINE SHORT PULSE AMPLIFICATION AND COMPRESSION IN HIGH GAIN CARBON DIOXIDE LASER AMPLIFIER 20-99

AMPLIFIER
OPTICAL QUALITY STUDY OF THE LASL CARBON DIOXIDE LASER AMPLIFIER SYSTEM. 20-111

PULSE COMPRESSION FOR MORE EFFICIENT OPERATION OF SOLID STATE LASER AMPLIFIER CHAINS. 2. 20-122

PULSED HYDROGEN FLUORIDE LASER OSCILLATOR AMPLIFIER EXPERIMENTS 20-124

LASER FUSION EXPERIMENTS AT LOS ALAMOS. PART 2. THE LASL CARBON DIOXIDE SHORT PULSE OSCILLATOR - AMPLIFIER SYSTEM 20-70

MULTILINE OPERATION OF A CARBON DIOXIDE OSCILLATOR/AMPLIFIER SYSTEM. 20-98

MULTILINE SHORT PULSE AMPLIFICATION AND COMPRESSION IN HIGH GAIN CARBON DIOXIDE LASER AMPLIFIER. 20-99

100 MHZ POWER AMPLIFIER DESIGN AND CONTROL FOR A HEAVY ION ACCELERATOR. 27-1

AMPLIFIERS
DISTORTION AND NOISE INDUCED DC OFFSET IN OPERATIONAL AMPLIFIERS. 13-3

GAIN RECOVERY AFTER SATURATION IN SHORT PULSE CARBON DIOXIDE AMPLIFIERS. 20-46

AMPLIFIERS INVOLVING TWO PHOTON ENERGY EXTRACTION SCHEMES 20-6

ANOMALOUS DISPERSION EFFECTS ON PULSE PROPAGATION IN HIGH PRESSURE CARBON DIOXIDE AMPLIFIERS. 20-8

AMPLITUDE
LARGE ANGLE AMPLITUDE FOR POTENTIAL SCATTERING AT HIGH ENERGY 4-33

EXPANSION OF THE NUCLEON - NUCLEON SCATTERING AMPLITUDE IN EXCHANGED PARTIAL WAVES. 23-73

ANAKTUVUK
ANAKTUVUK PASS, ALASKA VILLAGE CENSUS 30-1

ANALOG
ANALOG COMPUTER FOR CALCULATING THE SHUNT IMPEDANCE OF A RESONANT CAVITY. 21-4

SURVEY OF THE STATE OF THE ART OF FAST SINGLE TRANSIENT ANALOG TO DIGITAL CONVERTER TECHNIQUES. 21-76

CAPSULE STORAGE AND DENSITY - ANALOG TECHNIQUES. 24-4

ANALOGS
ANALOGS OF THE SILICON -28 COLLECTIVE M1 STATES OBSERVED IN THE SILICON -28 (TRITON,HELIUM -3) ALUMINUM -28 REACTION. 25-9

ANALOGUES
SPOT TEST LIMIT OF DETECTION VALUES FOR CARCINOGENIC AROMATIC AMINES AND THEIR HOMOLOGUES AND ANALOGUES. 17-57

ANALOGY
LASER PHASE TRANSITION ANALOGY: APPLICATION TO FIRST ORDER TRANSITIONS. 20-79

ANALYSES
DIFFUSION ANALYSES FOR SYSTEMS OF SPHERICAL PARTICLES. 2-12

COPPER MINING AND MILL ANALYSES BY GAMMA RAYS FROM CAPTURE OF CALIFORNIUM -252 NEUTRONS. 2-6

ANALYSIS
MOLECULAR ACTIVATION ANALYSIS. 2-18

QUANTITATIVE PULSED EDDY CURRENT ANALYSIS. 2-23

CHEMICAL ANALYSIS OF NUCLEAR FUELS FOR MAJOR CONSTITUENTS. 2-4

ANALYSIS OF A SCORPIUS X-1 X RAY SPECTRUM OBTAINED WITH COOLED SILICON (LI) DETECTORS. 3-3

ANALYSIS OF VUV EMISSION IN A THETA PINCH SEEDED WITH NEON AND IRON. 4-1

MULTIPARAMETER CELL SORTING AND ANALYSIS. 5-103

POPULATION ANALYSIS OF ARRESTED HUMAN DIPLOID FIBROBLASTS BY FLOW MICROFLUOROMETRY. 5-116

PREPARATIVE METHODS FOR ANALYSIS OF DNA, PROTEIN AND NUCLEAR - TO - CYTOPLASMIC RATIOS IN NORMAL AND TUMOR CELL POPULATIONS 5-118

UNIQUE TECHNIQUES FOR CELL CYCLE ANALYSIS UTILIZING MITHRAMYCIN AND FLOW MICROFLUOROMETRY. 5-144

USE OF MESONS FOR TISSUE CHEMICAL ANALYSIS. 5-146

ANALYSIS OF CELL AGE DISTRIBUTION DURING ASCITES TUMOR GROWTH. 5-2

CELL CYCLE ANALYSIS: OPENING REMARKS. 5-21

CELL CYCLE ANALYSIS: SESSION SUMMARY. 5-22

DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, APRIL 1 - JUNE 30, 1975. 5-50

DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, SEPTEMBER 1, 1974 - MARCH 1, 1975. 5-51

FLOW MICROFLUOROMETRIC ANALYSIS OF ISOLATED CHINESE HAMSTER CHROMOSOMES. 5-65

AUTOMATED CANCER CELL SORTING AND ANALYSIS, APRIL 1 - SEPTEMBER 30, 1975. 5-7

HIGH SPEED OPTICAL ANALYSIS OF MICROSCOPIC PARTICLES. 5-75

IN VIVO TISSUE ANALYSIS USING MU MESIC X RAYS. 5-79

AUTOMATED CANCER CELL SORTING AND ANALYSIS, APRIL 1, 1974 - MARCH 31, 1975. 5-8

INTRODUCTION TO FLOW SYSTEMS FOR CELL ANALYSIS AND SORTING. 5-82

LASER FLOW MICROPHOTOMETERS FOR RAPID ANALYSIS AND SORTING OF INDIVIDUAL MAMMALIAN CELLS. 5-92

STABILITY ANALYSIS OF SHARP BOUNDARY VLASOV FLUID SCREW PINCH EQUILIBRIA. 10-128

STABILITY ANALYSIS OF SHARP BOUNDARY VLASOV FLUID SCREW PINCH EQUILIBRIA 10-129

APPLICATION OF SENSITIVITY ANALYSIS TO A QUANTITATIVE ASSESSMENT OF NEUTRON CROSS SECTION REQUIREMENTS FOR THE TFTR (TOKAMAK FUSION TEST REACTOR): AN INTERIM REPORT. 10-2

DYNAMICS OF THE DENSE PLASMA FOCUS AS DETERMINED FROM AN ANALYSIS OF LASER SCATTERING SPECTRA. 10-23

IMPLICATIONS TO THE CTR COMMUNITY OF STANDARDIZATION IN NUCLEAR ANALYSIS CODES 10-54

KINETIC NONLOCAL ANALYSIS OF CROSS FIELD INSTABILITIES IN THETA PINCH PLASMAS. 10-67

LASER - PLASMA INTERACTIONS IN THE SCYLLA I-C EXPERIMENT: PRELIMINARY ANALYSIS. 10-68

NONLOCAL ANALYSIS OF CROSS FIELD INSTABILITIES IN THETA PINCHES. 10-85

NUCLEONIC DESIGN SENSITIVITY ANALYSIS FOR THE REFERENCE THETA PINCH REACTOR (RTPR). 10-86

ANALYSIS OF GEOTHERMAL POWER PLANT WATER USING GAMMA RAYS FROM CAPTURE OF CALIFORNIUM -252 NEUTRONS. 11-3

CAVITY STABILITY: FINITE ELEMENT ANALYSIS FOR STEADY AND TRANSIENT CREEP. 11-5

VENTILATION SYSTEMS ANALYSIS DURING TORNADO CONDITIONS, JANUARY - JUNE 1975. 13-19

VENTILATION SYSTEMS ANALYSIS DURING TORNADO CONDITIONS, JULY THROUGH DECEMBER 1974. 13-20

QUANTITATIVE ANALYSIS OF CARBON - CARBON COUPLING IN THE CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF MOLECULES BIOSYNTHESIZED FROM CARBON -13 ENRICHED PRECURSORS. 14-10

AEROSOL RESEARCH AND DEVELOPMENT RELATED TO HEALTH HAZARD ANALYSIS. LASL PROJECT R-038, APRIL 1 THROUGH JUNE 30, 1972. 17-1

DISCHARGE FLOW WITH TWO DIMENSIONAL FLUID MODEL ANALYSIS. 18-11

MULTI-PHASE FLOW METHODS FOR REACTOR SAFETY ANALYSIS. 18-25

THREE DIMENSIONAL COMPUTER ANALYSIS OF SHOCK LOADS ON A SIMPLE STRUCTURE. 18-49

SYSTEMS ANALYSIS OF LASER FUSION POWER PLANTS. 20-148

ANALYSIS OF HOMOPOLAR GENERATORS AND SUPERCONDUCTING INDUCTIVE ENERGY STORAGE SYSTEMS AS POWER SUPPLIES FOR HIGH ENERGY, SPACE BASED LASERS. 20-7

COMPUTERIZED IMAGE ANALYSIS AT THE LOS ALAMOS SCIENTIFIC LABORATORY. 21-22

FUTURE POTENTIALITIES OF IMAGE ANALYSIS. 21-35

ANALYSIS OF CAVITY STABILITY BY THE FINITE ELEMENT METHOD. 21-5

NET-2 NETWORK ANALYSIS PROGRAM. 21-51

ANALYSIS OF SOME GALERKIN SCHEMES FOR THE SOLUTION OF NONLINEAR TIME DEPENDENT PROBLEMS. 21-6

USE OF MUONIC X RAYS FOR TISSUE ANALYSIS. 22-54

MEASUREMENT, ANALYSIS, AND IMPLICATIONS OF THE FISSION CROSS SECTIONS OF THE IMPORTANT FISSIONABLE ISOTOPES. 25-115

R-MATRIX ANALYSIS OF THE LIGHT ELEMENT STANDARDS. 25-191

CROSS SECTION UNCERTAINTY ANALYSIS. 25-40

INSTRUMENTATION TECHNIQUES FOR NDA (NONDESTRUCTIVE ANALYSIS) OF FISSILE MATERIAL. 26-10

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT. PROGRAM STATUS REPORT, JANUARY - APRIL 1975. 26-17

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT. PROGRAM STATUS REPORT, SEPTEMBER - DECEMBER 1974. 26-18

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT PROGRAM STATUS REPORT, SEPTEMBER -DECEMBER 1972. 26-19

RECENT DEVELOPMENTS IN THE DISSOLUTION AND AUTOMATED ANALYSIS OF PLUTONIUM AND URANIUM FOR SAFEGUARDS MEASUREMENTS. 26-23

ANALYSIS OF FUEL BUNDLE RADIOGRAPHS USING MODELING. 28-1

ANALYTICAL CHEMISTRY PROGRAM FOR THE ANALYSIS OF URANIUM LOADED FUEL ELEMENTS 28-2

PROPOSAL FOR ANALYSIS OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) CORE RESPONSE TO SEISMIC INPUT. 28-31

SENSITIVITY ANALYSIS IN SHIELDING: AN OVERVIEW. 28-37

ANALYSIS OF FIREBALL GROWTH AT SANDSTONE. 30-2

KIWI-B HEAT EXCHANGER AND NEUTRONICS -DYNAMICS ANALYSIS. 30-37

PHOEBUS-2A REACTIVITY ANALYSIS. 30-59

RATIONAL DYNAMIC LOADS ANALYSIS FOR AIR CUSHION VEHICLES IN RANDOM SEAWAY OR TERRAIN. 30-76

STRESS ANALYSIS AND STATIC TESTING OF KIWI GRAPHITE REFLECTOR CYLINDER STRUCTURES. 30-88

THERMAL AND FLOW PERFORMANCE ANALYSIS OF THE KIWI-B-4E REACTOR. 30-90

ANALYTIC
R-MATRIX THEORY FOR ELECTRON - ATOM AND ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS. 4-52

R-MATRIX THEORY FOR ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS. 2. ELECTRON - HYDROGEN(2) SCATTERING IN THE STATIC EXCHANGE MODEL. 4-53

ANALYTIC TRANSPORT THEORY SOLUTIONS FOR STEADY SOURCES IN PURE ABSORBERS. 24-1

ANALYTICAL
ANALYTICAL METHODS FOR LITHIUM HYDRIDE. 2-2

DEVELOPMENT OF SAMPLING AND ANALYTICAL METHODS FOR CARCINOGENS, JULY 1 -DECEMBER 31, 1974. 17-14

PLUTONIUM -242 VS PLUTONIUM -236 AS AN ANALYTICAL TRACER. 17-41

RADIOCHEMICAL ANALYTICAL RESULTS OF NAEG (NEVADA APPLIED ECOLOGY GROUP) SAMPLES BY LASL-H7. 17-48

THEORETICAL, ANALYTICAL, AND STATISTICAL INTERPRETATION OF ENVIRONMENTAL DATA. 17-59

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS. JULY 1 - SEPTEMBER 30, 1975. 28-11

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS. JULY 1 - SEPTEMBER 30, 1975. 28-11

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS, APRIL - JUNE 30, 1975, AND FY 1975. 28-12

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS, APRIL - JUNE 30, 1975, AND FY 1975. 28-12

ANALYTICAL CHEMISTRY PROGRAM FOR THE ANALYSIS OF URANIUM LOADED FUEL ELEMENTS. 28-2

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, JANUARY 1 THROUGH MARCH 31, 1975. 28-32

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, JANUARY 1 THROUGH MARCH 31, 1975. 28-32

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-33

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-33

ANALYZER
POTENTIAL SENSING CELL ANALYZER. 5-117

ANALYZING
GENERAL PURPOSE COMPUTER PROGRAM FOR MANIPULATING AND ANALYZING TABULAR DATA. 21-37

PROTON - PROTON ANALYZING POWER MEASUREMENTS AT 16 MEV. 25-182

ANDERSON
BIOMEDICAL APPLICATIONS OF THE CLINTON P. ANDERSON MESON PHYSICS FACILITY. 5-15

CLINTON P. ANDERSON MESON PHYSICS FACILITY RADIOISOTOPE PROGRAM. 22-8

ANDESITE
MAGMA CONTAMINATION WITHIN THE VOLCANIC PILE: ORIGIN OF ANDESITE AND DACITE: COMMENT AND REPLY. 11-26

ORIGIN OF ANDESITE AND DACITE: EVIDENCE OF MIXING AT GLASS MOUNTAIN IN CALIFORNIA AND OTHER CIRCUM-PACIFIC VOLCANOES. 11-35

ANDROMADAE
NON-LINEAR RADIATIVE TRANSFER MODEL OF SW ANDROMADAE. 3-29

ANEUPLOID
CHROMOSOME G-BANDING AND DNA CONSTANCY IN ANEUPLOID CELL POPULATIONS. 5-39

ANEUPLOIDY
INCIDENCE OF ANEUPLOIDY IN A HUMAN POPULATION. 5-60

ANGLE
USE OF TWO ANGLE ELASTIC AND RAMAN SCATTERING TO OBTAIN MOLECULAR DENSITY AND AEROSOL SCATTERING PROFILES. 1-31

LARGE ANGLE AMPLITUDE FOR POTENTIAL SCATTERING AT HIGH ENERGY. 4-33

MULTIPLE EXCHANGE AND HIGH ENERGY FIXED ANGLE SCATTERING. 25-123

ANGSTROM
HIGH TEMPERATURE MEASUREMENTS OF THE STARK BROADENED HE-II 4686 ANGSTROM LINE PROFILE. 10-49

ANGSTROMS
ABSORPTION SPECTRUM OF URANIUM HEXAFLUORIDE FROM 2000 TO 4200 ANGSTROMS. 20-1

ANGULAR
HIGH ANGULAR RESOLUTION SECONDARY ELECTRON SPECTROSCOPY: KIKUCHI CORRELATIONS FOR ARSENIC (0001). 9-11

RELATIVISTIC COMPTON SCATTERING FROM MOVING ELECTRONS AND ANGULAR MOMENTS. 18-40

ANGULAR DISTRIBUTION OF POLARIZATION TRANSFER IN HYDROGEN -2(DEUTERON,PROTON) HYDROGEN -3. 25-10

ANGULAR DISTRIBUTIONS IN THE RADIATIVE CAPTURE OF 14 MEV NEUTRONS. 25-11

ANGULAR MOMENTUM EFFECTS IN THE SPECTRA OF RESIDUAL NUCLEI. 25-12

ENERGY AND ANGULAR DISTRIBUTION OF NEUTRONS PRODUCED BY 800 MEV PROTON -PROTON COLLISIONS. 25-64

GAMMA RAY ANGULAR DISTRIBUTIONS AND PARITY TESTS IN THE DECAYS OF POLARIZED LUTETIUM -173 AND LUTETIUM -174M,G. 25-85

ANHYDRASE
KINETIC PARAMETERS OF CARBONIC ANHYDRASE E BY CARBON -13 NUCLEAR MAGNETIC RESONANCE. 14-9

ANILINE
PERSONAL AIR SAMPLING FOR VAPORS OF ANILINE COMPOUNDS. 17-39

ANIMALS
PLUTONIUM AND OTHER ACTINIDE ELEMENTS IN GONADAL TISSUE OF MAN AND ANIMALS. 5-114

ENVIRONMENTAL PATHWAYS OF PLUTONIUM INTO TERRESTRIAL PLANTS AND ANIMALS. 17-24

ANIONS
STRUCTURE AND HINDERED MOTION OF BORON (3) HYDROGEN(8) ANIONS IN SOLIDS: AN NMR (NUCLEAR MAGNETIC RESONANCE) STUDY. 14-12

STRUCTURE AND MOTION OF B3H8- ANIONS IN SOLIDS: A BORON AND PROTON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY. 14-13

ANISOTROPY
PROTON TEMPERATURE ANISOTROPY INSTABILITIES. 1-21

ELECTROMAGNETIC ION CYCLOTRON INSTABILITY DRIVEN BY ION ENERGY ANISOTROPY IN HIGH BETA PLASMAS. 10-25

FORE - AFT ANISOTROPY IN THE RADIATIVE CAPTURE OF 14 MEV NEUTRONS. 25-82

ANNIHILATION
MAYBE THE QUARK-PARTON MODEL CAN SURVIVE ELECTRON POSITRON ANNIHILATION. 25-110

ANNUAL
ANNUAL REPORT. SEROLOGIC TEST DEVELOPMENT, JULY 1, 1973 THROUGH JUNE 30, 1974. 5-3

HEALTH DIVISION ANNUAL REPORT 1952. 5-73

ANODE
DELAY LINE READOUT OF ANODE PLANES IN PROPORTIONAL CHAMBERS. 19-3

ANOMALOUS
ANOMALOUS THERMAL PROPERTY BEHAVIOUR OF URANIUM AT LOW TEMPERATURES 8-4

ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY. 10-1

POST-IMPLOSION ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY. 10-104

POST IMPLOSION ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY 10-105

HOT ELECTRON PRODUCTION, ANOMALOUS ABSORPTION AND EFFECT OF INTENSE ELECTROMAGNETIC FIELDS ON INVERSE BREMSSTRAHLUNG ABSORPTION NEAR THE ELECTRON PLASMA FREQUENCY. 10-60

LASER INDUCED INSTABILITIES AND ANOMALOUS ABSORPTION IN DENSE PLASMAS 20-76

ANOMALOUS DISPERSION EFFECTS ON PULSE PROPAGATION IN HIGH PRESSURE CARBON DIOXIDE AMPLIFIERS 20-8

ANOMOLOUS
ANOMOLOUS LOCAL SNOWSTORM IN NEW MEXICO 30-3

ANTIBODIES
RAPID DISEASE SCREENING WITH ENZYME LABELED ANTIBODIES 5-123

SEROLOGIC TESTING WITH ENZYME LABELED ANTIBODIES (ELA) 5-133

EVALUATION OF SOLUBLE ANTIGEN FLUORESCENT ANTIBODY TEST FOR ANTIBODIES TO TRICHINELLA SPIRALIS IN EXPERIMENTALLY INFECTED SWINE. 5-61

ANTIBODY
EVALUATION OF SOLUBLE ANTIGEN FLUORESCENT ANTIBODY TEST FOR ANTIBODIES TO TRICHINELLA SPIRALIS IN EXPERIMENTALLY INFECTED SWINE. 5-61

ANTIFERROMAGNET
IS SOLID HELIUM -3 A HEISENBERG ANTIFERROMAGNET 8-22

ANTIFERROMAGNETS
THEORY OF MAGNETIZED ISING ANTIFERROMAGNETS AT LOW TEMPERATURES 8-53

ANTIGEN
EVALUATION OF SOLUBLE ANTIGEN FLUORESCENT ANTIBODY TEST FOR ANTIBODIES TO TRICHINELLA SPIRALIS IN EXPERIMENTALLY INFECTED SWINE. 5-61

IMMUNODIFFUSION IN GELS CONTAINING ERYTHROCYTE ANTIGEN. 1. THEORY FOR DIFFUSION OF ANTISERUM FROM A CIRCULAR WELL. 5-76

KINETICS OF HEMOLYTIC PLAQUE FORMATION. 3. INHIBITION OF PLAQUES BY ANTIGEN. 5-88

ANTIGENS
ON SIGNALS GENERATED BY THE BINDING OF MULTIVALENT ANTIGENS TO LYMPHOCYTES 5-108

ANTIPODES
POSSIBLE DETECTION OF ATOMIC BOMB EXPLOSION BY PRESSURE MEASUREMENTS AT THE ANTIPODES. 30-65

ANTISERUM
IMMUNODIFFUSION IN GELS CONTAINING ERYTHROCYTE ANTIGEN. 1. THEORY FOR DIFFUSION OF ANTISERUM FROM A CIRCULAR WELL. 5-76

APERTURE
VERSATILE MULTIPOLE CORRECTION MAGNET OF RECTANGULAR APERTURE. 22-55

APPARATUS
APPARATUS AND METHOD FOR LARGE TUNNEL EXCAVATION IN HARD ROCK. 11-4

APPEARANCE
APPEARANCE OF CYTOPLASMIC INFORMOSOMES IN CULTURED CHINESE HAMSTER CELLS IN THE ABSENCE OF PROTEIN SYNTHESIS 5-4

APPLIED
RADIOCHEMICAL ANALYTICAL RESULTS OF NAEG (NEVADA APPLIED ECOLOGY GROUP) SAMPLES BY LASL-H7. 17-48

HOLOGRAPHY APPLIED TO STRUCTURAL COMPONENTS. 19-8

APPLIED MATHEMATICS RESEARCH AND VISITOR PROGRAM, JULY 1, 1974 - JUNE 30, 1975. 21-7

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT. QUARTERLY PROGRESS REPORT, OCTOBER 1 THROUGH DECEMBER 31, 1974. 25-13

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, APRIL 1 - JUNE 30, 1975. 25-14

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, JANUARY 1 - MARCH 31, 1975. 25-15

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, JULY 1 - SEPTEMBER 30, 1975. 25-16

APPROACH
NON-EIKONAL APPROACH TO THE SCATTERING OF HADRONS FROM NUCLEI. 2 PROTON AND PION SCATTERING FROM DEUTERIUM, HELIUM -3 AND HELIUM -4. 25-139

FOLDED DIAGRAM THEORY, TIME DEPENDENT APPROACH OF JOHNSON AND BARANGER. 25-81

UNIFIED APPROACH TO MULTIPARTICLE PRODUCTION PROCESSES AT HIGH ENERGY. 27-20

APPROACHES
MACROSCOPIC AND MICROSCOPIC APPROACHES TO NUCLEAR DISSIPATION 25-107

APPROXIMANTS
BETHE-SALPETER EQUATION FOR NUCLEON -NUCLEON SCATTERING. MATRIX PADE APPROXIMANTS. 2. 25-20

APPROXIMATE
APPROXIMATE SOLUTION OF THE ADIABATIC EXPLOSION PROBLEM. 15-1

APPROXIMATE SPHERICAL BLAST THEORY INCLUDING SOURCE MASS. 20-9

APPROXIMATE REPRESENTATIONS OF A LOCAL CURRENT ALGEBRA 21-8

APPROXIMATELY
RESPONSE OF THE PLASMA SHEET AT APPROXIMATELY 16 EARTH RADII TO SUDDEN SOUTHWARD TURNINGS OF THE INTERPLANETARY MAGNETIC FIELD. 1-23

VLF RADIO PHENOMENA FOLLOWING A BARIUM SHAPED CHARGE RELEASE AT L APPROXIMATELY EQUALS 6.5. 1-32

TIME OF FLIGHT NEUTRON SPECTROSCOPY USING APPROXIMATELY 20 METER FLIGHT PATHS TO A NUCLEAR DEVICE. 25-223

APPROXIMATION
ON THE VALIDITY OF THE SLATER APPROXIMATION IN ELECTRON SCREENING IN EXOTIC ATOMS. 4-47

WALSH FUNCTION APPROXIMATION FOR NEUTRON TRANSPORT IN X-Y GEOMETRY. 24-22

APPROXIMATION OF MULTI-CENTRE INTEGRALS ARISING IN PROTON - HYDROGEN CHARGE EXCHANGE CALCULATIONS. 25-17

COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATION FOR THE FULLY OFF SHELL TWO NUCLEON T MATRIX. 25-38

FOUNDATIONS OF THE TRIPLE CENTRE APPROXIMATION. 25-83

APPROXIMATIONS
RADIATIVE TRANSFER APPROXIMATIONS IN FIREBALL MODELING. 18-38

APRIL
DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES. APRIL 1 - JUNE 30, 1975. 5-50

AUTOMATED CANCER CELL SORTING AND ANALYSIS. APRIL 1 - SEPTEMBER 30, 1975. 5-7

AUTOMATED CANCER CELL SORTING AND ANALYSIS. APRIL 1, 1974 - MARCH 31, 1975. 5-8

SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL. APRIL 1 THROUGH SEPTEMBER 30, 1974. 8-46

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. APRIL 1 - JUNE 30, 1975. 8-58

MT BAKER 11 APRIL TO 1 JULY 1975 11-32

AEROSOL RESEARCH AND DEVELOPMENT RELATED TO HEALTH HAZARD ANALYSIS LASL PROJECT R-038. APRIL 1 THROUGH JUNE 30, 1972 17-1

DEVELOPMENT OF AIR SAMPLING TECHNIQUES. LASL PROJECT R-059. NIOSH-IA-74-10. APRIL 1 - SEPTEMBER 30, 1974 17-13

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES. APRIL 1 - JUNE 30, 1975 INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS 17-21

EVALUATION OF METHODS FOR THE DETERMINATION OF MERCURY. LASL PROJECT R-060 QUARTERLY REPORT. APRIL 1 THROUGH JUNE 30, 1972 17-27

STATUS REPORT LASER FUSION TARGET FABRICATION. 30 APRIL 1974 20-129

MEDIUM ENERGY PHYSICS PROGRAM. FEBRUARY 1 - APRIL 30, 1975 22-29

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT. APRIL 1 - JUNE 30, 1975 25-14

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT. PROGRAM STATUS REPORT. JANUARY - APRIL 1975 26-17

EXAMINATION OF FAST REACTOR FUELS. FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS. APRIL - JUNE 30, 1975, AND FY 1975 28-12

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM. APRIL -JUNE 1975 28-19

TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY APRIL 1 - JUNE 30, 1975 28-38

SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING APRIL 30, 1969 30-85

AQUATIC
ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES OCTOBER 1 - DECEMBER 31, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS 17-20

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES. APRIL 1 - JUNE 30, 1975 INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS 17-21

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES. JANUARY 1 - MARCH 31, 1975 INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS 17-22

PLUTONIUM RELEASE RATES FROM PLUTONIUM -238 FUELS EXPOSED TO AQUATIC ENVIRONMENTS 17-42

PROGRESS REPORT. ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JULY 1 THROUGH SEPTEMBER 30, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-45

AQUEOUS
KINETICS OF THE OXIDATION - REDUCTION REACTIONS OF URANIUM, NEPTUNIUM, PLUTONIUM AND AMERICIUM IN AQUEOUS SOLUTIONS. 7-10

KINETICS OF THE REACTION BETWEEN PLUTONIUM(III) AND CHROMIUM(VI) IN AQUEOUS PERCHLORATE SOLUTIONS. 7-11

FOURIER TRANSFORM CARBON -13 MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 2. LIGAND SUBSTITUTION PROCESSES. 7-7

FOURIER TRANSFORM CARBON -13 NUCLEAR MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 1. EQUILIBRIUM QUOTIENTS FROM RELATIVE ABUNDANCES OF SOLUTION SPECIES. 14-7

AR-RIYAS
GEOCHEMICAL IDENTIFICATION OF THE BRINE SOURCE OF THE SABKHAT AR-RIYAS, SAUDI ARABIA. 11-18

ARABIA
GEOCHEMICAL IDENTIFICATION OF THE BRINE SOURCE OF THE SABKHAT AR-RIYAS, SAUDI ARABIA. 11-18

ARBITRARY
CALCULATIONS OF COULOMB ENERGIES FOR UNIFORM CHARGE DISTRIBUTIONS OF ARBITRARY SHAPE. 24-2

AREA
EXPERIMENTAL STUDY OF AREA WAVES IN THE 8 METER SCYLLAC FEEDBACK SECTOR. 10-35

SEISMICITY OF LOS ALAMOS AREA ESTIMATED FROM FAULT MOVEMENTS. 11-49

EQUAL AREA PROPERTY OF NARROW RESONANCES INDUCED IN COUPLED DOPPLER BROADENED SYSTEMS BY INTENSE LASER RADIATION. 20-40

LAMPF EXPERIMENTAL AREA BEAM CURRENT MONITORS. 22-23

TECHNIQUES FOR HIGH PRECISION MAGNETIC FIELD MAPPING OF LARGE AREA DIPOLES. 22-51

AREAS
VENTILATION DESIGN MODIFICATIONS AT LOS ALAMOS SCIENTIFIC LABORATORY MAJOR PLUTONIUM OPERATIONAL AREAS. 17-61

ENVIRONMENTAL EVALUATION OF SOLID RADIOACTIVE WASTE DISPOSAL AREAS. 30-24

PROPOSAL TO DESIGNATE CERTAIN LAND AREAS OF THE LOS ALAMOS SCIENTIFIC LABORATORY AS A NATIONAL ENVIRONMENTAL RESEARCH PARK. 30-66

ARGON
DISSOCIATIVE EXCITATION CHANNELS IN THE INTERACTION OF ARGON(3-P-0,2) AND HELIUM (2-3-S) METASTABLE ATOMS WITH METHANE, ETHYLENE, ACETYLENE, AND BENZENE. 6-6

DETERMINATION OF ARGON OXIDE 558 NM LASER PARAMETERS 20-22

RADIOCHEMICAL INVESTIGATION OF REACTIONS OF ARGON -40 AND KRYPTON -84 IONS WITH URANIUM -238 TARGETS. 25-183

CALCIUM -40 (NEUTRON,ALPHA) ARGON -37 CROSS SECTION FROM 3 TO 14.7 MEV. 25-23

ZERO PLUS STATES NEAR THE N=20 NEUTRON SHELL FROM ARGON(TRITON,PROTON) REACTIONS. 25-232

(TRITON,PROTON) REACTION ON ARGON -36, 38, 40. 25-4

ARITHMETIC
SIGNIFICANCE ARITHMETIC. APPLICATION TO A PARTIAL DIFFERENTIAL EQUATION 21-73

ARMY
INVESTIGATION OF PERFORMANCE OF US ARMY FILTER CANISTERS AND RESPIRATORS EQUIPPED WITH PROTOTYPE FACEPIECES. 17-29

AROMATIC
SPOT TEST LIMIT OF DETECTION VALUES FOR CARCINOGENIC AROMATIC AMINES AND THEIR HOMOLOGUES AND ANALOGUES. 17-57

AROUND
COMPILATION OF SPECTROSCOPIC OBSERVATION OF AIR AROUND ATOMIC BOMB EXPLOSIONS 30-13

ARREST
DIFFERENT DRUGS ARREST CELLS AT A NUMBER OF DISTINCT STAGES IN G2. 5-53

ARRESTED
POPULATION ANALYSIS OF ARRESTED HUMAN DIPLOID FIBROBLASTS BY FLOW MICROFLUOROMETRY. 5-116

ARRESTED AND CYCLING CHO CELLS AS A KINETIC MODEL 5-6

ARSENATE
SPECTRAL ACCEPTANCE FOR SECOND HARMONIC GENERATION IN CD*A (CESIUM DIDEUTERIUM ARSENATE). 20-137

ARSENIC
HIGH ANGULAR RESOLUTION SECONDARY ELECTRON SPECTROSCOPY: KIKUCHI CORRELATIONS FOR ARSENIC (0001). 9-11

COHERENT INELASTIC ELECTRON SCATTERING IN LEED (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF ARSENIC(0001). 9-5

ART
BAYESIAN RELIABILITY ESTIMATION: STATE OF THE ART FOR THE TIME DEPENDENT CASE. 21-10

SURVEY OF THE STATE OF THE ART OF FAST SINGLE TRANSIENT ANALOG TO DIGITAL CONVERTER TECHNIQUES. 21-78

QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENDING JULY 31, 1967. 30-70

ARTERIES
NUMERICAL STUDY OF PULSATILE FLOW THROUGH CONSTRICTED ARTERIES. 5-107

ASBESTOS
CALIBRATION STANDARDS FOR COUNTING ASBESTOS. 17-4

ASCITES
CELL AGE DISTRIBUTION STUDY OF LSA ASCITES LYMPHOMA DURING GROWTH. 5-18

ANALYSIS OF CELL AGE DISTRIBUTION DURING ASCITES TUMOR GROWTH. 5-2

ASH
MECHANISM OF CALDERA FORMING ASH BLAST ERUPTIONS. 11-29

ASM80
ASM80: A CDC 7600 MACRO CROSS ASSEMBLER FOR III-15 AND D.E.C. PDP-9 AND PDP-15 COMPUTERS. 21-9

ASPECTS
FUNDAMENTAL ASPECTS OF SYSTEMS FOR THE THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER. 7-8

ECONOMIC AND SYSTEM ASPECTS OF A SUPERCONDUCTING MAGNETIC ENERGY STORAGE DEVICE AND A DC SUPERCONDUCTING TRANSMISSION LINE. 8-14

ASPECTS OF THETA PINCH POWER PLANT DEVELOPMENT. 10-3

TRANSPORT AND HYDRODYNAMIC ASPECTS OF MULTIPARTICLE PRODUCTION. 25-226

SAFEGUARDS ASPECTS OF SPENT NUCLEAR FUEL. 26-25

ASSAY
NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 1. X RAY METHOD. 20-102

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 2. PHOTONUCLEAR (DEUTERIUM (GAMMA,NEUTRON)) METHOD. 20-103

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 3. ELASTIC SCATTERING METHOD. 20-104

EFFECT OF GALLIUM ON PLUTONIUM ASSAY. 23-11

AUTOMATED NONDESTRUCTIVE ASSAY INSTRUMENTATION FOR NUCLEAR MATERIALS SAFEGUARDS. 26-1

NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL RODS. 26-12

NONDESTRUCTIVE ASSAY OF INVENTORY VERIFICATION SAMPLES AT THE LASL VAN DE GRAAFF SMALL SAMPLE ASSAY STATION. 26-13

NONDESTRUCTIVE ASSAY OF INVENTORY VERIFICATION SAMPLES AT THE LASL VAN DE GRAAFF SMALL SAMPLE ASSAY STATION. 26-13

NONDESTRUCTIVE ASSAY PHYSICAL STANDARDS AND TODAY'S SAFEGUARDS REQUIREMENTS. 26-14

NONDESTRUCTIVE ASSAY TECHNOLOGY AND IN-PLANT DYNAMIC MATERIALS CONTROL. 26-15

NONDESTRUCTIVE ASSAY TECHNOLOGY AND IN-PLANT MATERIALS CONTROL: DYMAC 26-16

AUTOMATED NONDESTRUCTIVE ASSAY SYSTEM FOR THE MEASUREMENT OF IRRADIATED ROVER FUEL. 26-2

PERFORMANCE OF SELECTED NONDESTRUCTIVE ASSAY TECHNIQUES ON LWR (LIGHT WATER REACTOR) (PLUTONIUM,URANIUM) DIOXIDE AND URANIUM DIOXIDE FUEL. 26-21

ROLE OF THE SMALL ACCELERATOR IN THE NONDESTRUCTIVE ASSAY LABORATORY. 26-24

CALIFORNIUM -252 NEUTRON SOURCE SYSTEMS FOR THE ASSAY OF URANIUM AND PLUTONIUM IN FUEL RODS. 26-3

DO'S AND DONT'S OF NONDESTRUCTIVE ASSAY MEASUREMENTS. 26-6

FUNDAMENTALS OF PASSIVE NONDESTRUCTIVE ASSAY OF FISSIONABLE MATERIAL: LABORATORY WORKBOOK. 26-7

GUIDE TO GAMMA RAY ASSAY FOR NUCLEAR MATERIAL ACCOUNTABILITY. 26-8

IN-PLANT NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL MATERIALS. 26-9

ASSEMBLER
ASM80: A CDC 7600 MACRO CROSS ASSEMBLER FOR III-15 AND D.E.C. PDP-9 AND PDP-15 COMPUTERS. 21-9

ASSEMBLIES
PERFORMANCE OF MULTIHUNDRED WATT FUELED SPHERE ASSEMBLIES IN THE SAFETY SEQUENTIAL TEST PROGRAM. 17-35

REFLECTOR MODERATED CRITICAL ASSEMBLIES. 24-18

CALCULATIONS OF FAST CRITICAL ASSEMBLIES USING ENDF/B-IV CROSS SECTION DATA. 24-3

CRITICAL ASSEMBLIES. 24-7

CRITICAL ASSEMBLIES. 24-8

ASSEMBLY
SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE III: FSA (FUEL SPHERE ASSEMBLY) IMPACTS. 17-53

RESEARCH PROGRAM ON PLASMA CORE ASSEMBLY. 24-19

TUNGSTEN CARBIDE CRITICAL ASSEMBLY. 24-20

CENTRAL NEUTRON SPECTRUM OF THE FAST CRITICAL ASSEMBLY BIG-TEN. 24-5

CRITICAL ASSEMBLY MOCKUP STUDIES OF THE PHOEBUS-2 ROVER REACTOR. 30-15

ASSESSMENT
APPLICATION OF SENSITIVITY ANALYSIS TO A QUANTITATIVE ASSESSMENT OF NEUTRON CROSS SECTION REQUIREMENTS FOR THE TFTR (TOKAMAK FUSION TEST REACTOR): AN INTERIM REPORT. 10-2

PLUTONIUM: ASSESSMENT OF THE OCCUPATIONAL ENVIRONMENT. 17-44

QUANTITATIVE ASSESSMENT OF CTR CROSS SECTION NEEDS. 25-187

OMNIBUS ENVIRONMENTAL ASSESSMENT. 30-53

ASSIST
PERFORMANCE TESTS OF GRAVITY ASSIST HEAT PIPES WITH SCREEN WICK STRUCTURES. 13-12

GRAVITY ASSIST HEAT PIPES FOR THERMAL CONTROL SYSTEMS. 13-7

ASSOCIATIVE
ASSOCIATIVE IONIZATION AND EXCITATION TRANSFER IN HELIUM. 4-2

ASSURANCE
ELEMENTS OF QUALITY ASSURANCE IN ENVIRONMENTAL SURVEILLANCE. 17-17

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS. JULY 1 - SEPTEMBER 30, 1975. 28-11

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS, APRIL - JUNE 30, 1975, AND FY 1975. 28-12

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, JANUARY 1 THROUGH MARCH 31, 1975. 28-32

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-33

ASTRONOMICAL
IMAGE INTENSIFICATION AND VIDEO RECORDING SYSTEM FOR ASTRONOMICAL OBSERVATIONS. 3-22

ASTROPHYSICAL
GENERAL NUMERICAL FLUID DYNAMICS ALGORITHM FOR ASTROPHYSICAL APPLICATIONS. 3-17

GENERAL FLUID DYNAMICS ALGORITHM FOR ASTROPHYSICAL APPLICATIONS. 18-17

ASYMMETRIC
OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 3. ASYMMETRIC CONFOCAL RESONATOR. 20-109

TWO DIMENSIONAL CALCULATIONS OF ASYMMETRIC LASER FUSION TARGETS USING IRIS. 20-158

ASYMMETRIES
POWER DENSITY ASYMMETRIES IN COUPLED CORE REACTOR SYSTEMS. 30-64

ASYMMETRY
INVESTIGATION OF THE SOURCES OF ASYMMETRY EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT IN TYPE II TANTALUM WIRES. 8-21

OBSERVATION OF ASYMMETRY EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT IN TYPE II TANTALUM WIRES. 8-32

CARBON DIOXIDE LASER DEVELOPMENT AND ASYMMETRY IN LASER DRIVEN IMPLOSIONS. 20-15

PARITY VIOLATING ASYMMETRY IN NEUTRON PHOTO CAPTURE BY PROTONS AND THE ISOSPIN STRUCTURE OF THE STRANGENESS CONSERVING NONLEPTONIC WEAK INTERACTIONS. 25-155

PROTON - PROTON ASYMMETRY MEASUREMENTS AT 16.000 MEV. 25-180

CHARGE ASYMMETRY EFFECTS AND THE TRINUCLEON BINDING ENERGY. 2. INCLUSION OF THE TENSOR FORCE AND SINGLET REPULSION. 25-27

HYDROGEN -3 - HELIUM -3 BINDING ENERGY DIFFERENCE AND POSSIBLE CHARGE ASYMMETRY EFFECTS IN THE NUCLEON - NUCLEON FORCE. 25-95

ASYMPTOTIC
ASYMPTOTIC FORM OF PARTITION FUNCTIONS OF LINEAR CHAIN MOLECULES: AN APPLICATION OF RENEWAL THEORY. 4-3

INTEGRAL RELATION FOR THE ASYMPTOTIC NORMALIZATION OF THE TRITON. 25-100

ATMOSPHERE
OXYGEN POTENTIAL OF URANIUM - PLUTONIUM OXIDE AS DETERMINED BY CONTROLLED ATMOSPHERE THERMOGRAVIMETRY. 2-19

RELEASE OF PLUTONIUM TO THE ATMOSPHERE. 17-49

ATMOSPHERES
HYDRODYNAMIC EFFECTS IN THE ATMOSPHERES OF VARIABLE STARS. 3-20

WIND FLOW OVER SIMULATED STRUCTURES FOR MARTIAN AND TERRESTRIAL ATMOSPHERES. 18-55

ATMOSPHERIC
HEAVY METHANES AS ATMOSPHERIC TRACERS. 1-13

ATMOSPHERIC IONIZATION PRODUCED BY SPRINT BURSTS. 4-4

ATMOSPHERIC MERCURY SAMPLING MATERIAL AND METHOD. 17-2

EFFECT OF ATMOSPHERIC LIQUID WATER ON ATOMIC BOMBS. 30-20

ATOM
R-MATRIX THEORY FOR ELECTRON - ATOM AND ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS. 4-52

RELATIVISTIC EFFECTS IN THE THOMAS-FERMI ATOM. 4-55

ON THE THERMAL RATE COEFFICIENT AND ACTIVATION ENERGY OF THE IODINE + IODINE(2) ATOM EXCHANGE REACTION. 6-12

QUASICLASSICAL TRAJECTORY STUDY OF THE MOLECULAR BEAM KINETICS OF THE DEUTERIUM ATOM - HYDROGEN HALIDE EXCHANGE REACTION. 6-15

DEPENDENCE OF THE SECOND EXPLOSION LIMITS OF HYDROGEN - FLUORINE - OXYGEN -HYDROGEN FLUORIDE MIXTURES ON A HOT ATOM EFFECT. 6-5

ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 1. PHASE BOUNDARY, THERMODYNAMICS AND LATTICE PARAMETER. 9-1

ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 2. SUPERCONDUCTING TRANSITION TEMPERATURE. 9-2

METAL ATOM OXIDATION LASER. 20-90

METAL ATOM OXIDATION LASERS: A NEW FAMILY OF CHEMICAL LASERS. 20-91

ATOMIC
DRIFT COMPENSATING INTEGRATOR FOR MEASUREMENT OF TRANSIENT ATOMIC ABSORPTION SIGNALS. 2-13

URANIUM TRANSITIONS AND ENERGY LEVELS WHICH MAY BE USEFUL IN ATOMIC PHOTOIONIZATION SCHEMES FOR SEPARATING URANIUM -238 AND URANIUM -235. 2-28

ELECTRON TRANSFER IN COLLISIONS BETWEEN ATOMIC IONS AND RARE GAS ATOMS. 4-17

ATOMIC CAPTURE OF NEGATIVE MESONS: THE FUZZY FERMI-TELLER MODEL. 4-5

SEMIEMPIRICAL ATOMIC MASS FORMULA. 4-61

ATOMIC SCATTERING FACTORS FOR X RAYS. 9-3

DISPERSION CORRECTIONS FOR X RAY ATOMIC SCATTERING FACTORS. 9-9

LOS ALAMOS PRESENTATION ON LASER FUSION TO THE JOINT COMMITTEE ON ATOMIC ENERGY, WASHINGTON, DC, MARCH 13, 1975. 20-86

COMPILATION OF SPECTROSCOPIC OBSERVATION OF AIR AROUND ATOMIC BOMB EXPLOSIONS. 30-13

EFFECT OF ATMOSPHERIC LIQUID WATER ON ATOMIC BOMBS. 30-20

POSSIBLE DETECTION OF ATOMIC BOMB EXPLOSION BY PRESSURE MEASUREMENTS AT THE ANTIPODES. 30-63

RADIATION DOSE TO BE EXPECTED FROM AERIAL PENETRATION OF AN ATOMIC CLOUD. 30-72

SELF FLYING ATOMIC BOMBS (NEW MEXICO JUMPING BEANS). 30-82

ATOMS
ELECTRON SCATTERING FROM ATOMS, NUCLEI AND NUCLEONS. 4-16

ELECTRON TRANSFER IN COLLISIONS BETWEEN ATOMIC IONS AND RARE GAS ATOMS. 4-17

HIGH ORDER VACUUM POLARIZATION IN EXOTIC ATOMS. 4-27

HIGHER ORDER CORRECTIONS TO ENERGY LEVELS OF MUONIC ATOMS. 4-28

NUCLEAR RESONANCES IN HADRONIC ATOMS. 4-43

ON THE VALIDITY OF THE SLATER APPROXIMATION IN ELECTRON SCREENING IN EXOTIC ATOMS. 4-47

REACTIONS OF DIATOMIC RARE GAS IONS WITH RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 50 EV. 4-54

DISSOCIATIVE EXCITATION CHANNELS IN THE INTERACTION OF ARGON(3-P-0,2) AND HELIUM (2-3-S) METASTABLE ATOMS WITH METHANE, ETHYLENE, ACETYLENE, AND BENZENE. 6-6

NUCLEAR STRUCTURE STUDIES IN HEAVY DEFORMED NUCLEI USING MUONIC ATOMS. 25-147

HADRONIC ATOMS AND TICKLISH NUCLEI: THE E2 NUCLEAR RESONANCE EFFECT. 25-88

HADRONIC ATOMS AND TICKLISH NUCLEI: THE E2 NUCLEAR RESONANCE EFFECT. 25-89

AU
EVIDENCE FOR THE REGULATION OF SOLAR WIND HEAT FLUX AT 1 AU. 1-9

AUGUST
H-DIVISION PROGRESS REPORT, 20 JULY 1949 - 20 AUGUST 1949 5-71

LASL NIOBIUM(3)GERMANIUM CONDUCTOR DEVELOPMENT, AUGUST 1 - OCTOBER 31, 1975. 8-23

E DIVISION QUARTERLY STATUS REPORT, JUNE 1 - AUGUST 31, 1975. 13-4

PROGRESS REPORT. RESEARCH ON CARBON -ALUMINUM COMPOSITES AUGUST 1 - DECEMBER 31, 1974. 22-43

AUTOCATALYSIS
RESONANCE AUTOCATALYSIS. 30-79

AUTOMATED
AUTOMATED CANCER CELL SORTING AND ANALYSIS, APRIL 1 - SEPTEMBER 30, 1975. 5-7

AUTOMATED CANCER CELL SORTING AND ANALYSIS, APRIL 1, 1974 - MARCH 31, 1975. 5-8

AUTOMATED NONDESTRUCTIVE ASSAY INSTRUMENTATION FOR NUCLEAR MATERIALS SAFEGUARDS. 26-1

AUTOMATED NONDESTRUCTIVE ASSAY SYSTEM FOR THE MEASUREMENT OF IRRADIATED ROVER FUEL. 26-2

RECENT DEVELOPMENTS IN THE DISSOLUTION AND AUTOMATED ANALYSIS OF PLUTONIUM AND URANIUM FOR SAFEGUARDS MEASUREMENTS. 26-23

AUTOMOBILE
ALTERNATE FUELS FOR TRANSPORTATION, .2. HYDROGEN FOR THE AUTOMOBILE. 12-1

AUTOPSY
CESIUM -134 IN HUMAN AUTOPSY TISSUE. 5-32

AUXILIARY
SCYLLAC SECTOR RESULTS WITH PROGRAMMED L=0 AND L=2 AUXILIARY FIELDS. 10-123

AVAILABILITY
MODELING MAXIMUM LIKELIHOOD ESTIMATION OF AVAILABILITY. 21-46

AVAILABLE
REVIEW OF AVAILABLE TECHNOLOGY FOR NARROW BAND TRANSMISSION OF VISUAL MATERIAL. 13-15

AXES
RELATIVISTIC ROTATION OF AXES UNDER SUCCESSIVE LORENTZ TRANSFORMATIONS. 27-15

AXIAL
AXIAL DISTRIBUTIONS OF NIOBIUM -95 AND ZIRCONIUM -95 ISOTOPES IN IRRADIATED URANIUM DIOXIDE - PLUTONIUM DIOXIDE FUEL PINS. 2-3

ORIGIN OF AXIAL CURRENT IN SCYLLAC. 10-96

AXISYMMETRIC
SPECTRUM OF IDEAL MAGNETOHYDRODYNAMICS OF AXISYMMETRIC TOROIDAL SYSTEMS 10-127

AZIMUTHALLY
NUMERICAL EVALUATION OF THE AZIMUTHALLY DEPENDENT ALBEDO PROBLEM IN SLAB GEOMETRY. 21-55

B
OSCILLATOR STRENGTHS FROM LINE ABSORPTION IN A HIGH TEMPERATURE FURNACE. 2. THE (0,0) BAND OF THE B(?,SIGMA(+) -X(2)SIGMA (+) TRANSITION IN CYANOGEN. 4-48

B LYMPHOCYTE ACTIVATION AND LATTICE FORMATION. 5-9

B-IV
CALCULATIONS OF FAST CRITICAL ASSEMBLIES USING ENDF/B-IV CROSS SECTION DATA. 24-3

ENDF/B-IV FISSION PRODUCT FILES: SUMMARY OF MAJOR NUCLIDE DATA. 25-63

BACKSCATTER
SHORT RANGE RADIO TELEMETRY FOR ELECTRONIC IDENTIFICATION USING MODULATED RF BACKSCATTER. 19-18

BACKSCATTER MEASUREMENTS FROM LASER PRODUCED PLASMAS AT 10.6 MICRONS. 20-10

BACKWARD
BACKWARD POTENTIAL SCATTERINGS AT HIGH ENERGY. 4-6

BADGES
ENERGY RESPONSE OF TLD BADGES LOCATED ON PERSONNEL. 17-19

BAFFLING
CASE OF THE BAFFLING BURSTS. 3-7

BAKER
MT. BAKER 11 APRIL TO 1 JULY 1975. 11-32

BALL
LASER - FUSION TARGET FABRICATION: APPLICATION OF A POLYMERIC ABLATOR COATING TO A BALL AND DISK TARGET DESIGN BY THE PHYSICAL VAPOR DEPOSITION OF POLYETHYLENE. 20-66

BAND
OSCILLATOR STRENGTHS FROM LINE ABSORPTION IN A HIGH TEMPERATURE FURNACE. 2. THE (0,0) BAND OF THE B(2)SIGMA(+) -X(2)SIGMA (+) TRANSITION IN CYANOGEN. 4-48

REVIEW OF AVAILABLE TECHNOLOGY FOR NARROW BAND TRANSMISSION OF VISUAL MATERIAL. 13-15

TEMPERATURE DEPENDENT ABSORPTION SPECTRUM OF THE NU(3) BAND OF SULFUR HEXAFLUORIDE AT 10.6 MICRONS. 20-150

BANDS
ISOTOPE EFFECTS IN THE SCHUMANN-RUNGE BANDS OF MOLECULAR OXYGEN. 4-32

BARANGER
FOLDED DIAGRAM THEORY, TIME DEPENDENT APPROACH OF JOHNSON AND BARANGER. 25-81

BARE
EMF'S ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM: BARE ELECTRODE EFFECTS, USE OF N UNEQUAL TO 2, PREMONITORY PHENOMENA AND LIQUID STRUCTURE IN GOLD -CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS. 7-5

EMF'S ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM: BARE ELECTRODE EFFECTS, USE OF N UNEQUAL TO 2, PREMONITORY PHENOMENA AND LIQUID STRUCTURE IN GOLD -CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS. 7-5

BARIUM
L = 6.6 OOSIK BARIUM PLASMA INJECTION EXPERIMENT AND MAGNETIC STORM OF MARCH 7, 1972. 1-16

L = 6.7 QUIET TIME BARIUM SHAPED CHARGE INJECTION EXPERIMENT CHACHALACA. 1-17

TWO BARIUM PLASMA INJECTIONS INTO THE NORTHERN MAGNETOSPHERIC CLEFT. 1-30

VLF RADIO PHENOMENA FOLLOWING A BARIUM SHAPED CHARGE RELEASE AT L APPROXIMATELY EQUALS 6.5. 1-32

BARRIERS
TEMPERATURE DEPENDENT ORDINARY AND THERMAL DIFFUSION OF TRITIUM THROUGH METAL BARRIERS. 20-151

BARSHAY-TEMMER
CONDITION FOR A VANISHING CROSS SECTION AT THETA = PI/2 IN BARSHAY-TEMMER REACTIONS 25-35

BASALT
CHEMICAL CORROSION OF MOLYBDENUM AND TUNGSTEN IN LIQUID BASALT, TUFF, AND GRANITE WITH APPLICATION TO SUBTERRENE PENETRATORS. 11-7

BASE
MUMPS CODE BUILDING PACKAGE FOR DATA BASE MANAGEMENT. 5-104

PROCESS FOR IMPROVING THE LOW TEMPERATURE DUCTILITY OF TUNGSTEN BASE COMPOSITES. 23-46

BASES
PROPRIETARY, STANDARD, AND GOVERNMENT SUPPORTED NUCLEAR DATA BASES. 25-180

BASIC
ALLCAL: AN INTERACTIVE BASIC PROGRAM FOR SPECTROCHEMICAL CALCULATIONS. 2-1

BAYESIAN
BAYESIAN RELIABILITY ESTIMATION: STATE OF THE ART FOR THE TIME DEPENDENT CASE. 21-10

BEAD
BEAD PERTURBATION MEASUREMENT FOR THE KEK LINAC CAVITY. 25-18

BEAM
ELECTROMAGNETIC ION BEAM INSTABILITIES IN THE SOLAR WIND. 1-5

BIOLOGICAL EFFECTS OF THE LOS ALAMOS MESON BEAM ON CELLS IN CULTURE. 5-13

SURVIVAL OF CULTURED MAMMALIAN CELLS IRRADIATED AT VARIOUS DEPTHS IN THE LAMPF NEGATIVE PION THERAPY BEAM. 5-139

CHARACTERISTICS OF A NEGATIVE PION BEAM FOR THE IRRADIATION OF SUPERFICIAL NODULES. 5-37

CHARACTERISTICS OF A NEGATIVE PION BEAM IN A THERAPEUTIC APPLICATION. 5-38

QUASICLASSICAL TRAJECTORY STUDY OF THE MOLECULAR BEAM KINETICS OF THE DEUTERIUM ATOM - HYDROGEN HALIDE EXCHANGE REACTION. 6-15

ENERGY LOSS OF A RELATIVISTIC, FINITE ELECTRON BEAM IN A PLASMA. 10-28

INFLUENCE OF SELF FIELDS ON THE FILAMENTATION INSTABILITY IN RELATIVISTIC BEAM PLASMA SYSTEMS. 10-58

INFLUENCE OF SELF FIELDS ON THE VLASOV EQUILIBRIUM AND STABILITY PROPERTIES OF RELATIVISTIC ELECTRON BEAM - PLASMA SYSTEMS. 10-59

ELECTRIC FIELD INDUCED HARMONIC GENERATION AS A PROBE OF THE FOCAL REGION OF A LASER BEAM. 20-32

LINEAR THEORY OF A COLD RELATIVISTIC BEAM PROPAGATING ALONG AN EXTERNAL MAGNETIC FIELD. 20-85

MEASUREMENT OF BEAM QUALITY FROM SHORT PULSE CARBON DIOXIDE LASERS. 20-88

NON-INTERCEPTING BEAM POSITION SENSOR FOR LAMPF. 21-52

INSTRUMENTATION OPERATING EXPERIENCE ON LAMPF MAIN BEAM LINES. 22-21

LAMPF EXPERIMENTAL AREA BEAM CURRENT MONITORS. 22-23

MEASUREMENT OF THE NEUTRON FLUX GENERATED BY THE LAMPF 800 MEV PROTON BEAM STOP. 22-28

BEAM CALCULATIONS FOR LAMPF MUON CHANNEL. 22-3

NON-INTERCEPTING POSITION MONITOR FOR THE LAMPF WNR BEAM. 22-53

OPERATING EXPERIENCE WITH LAMPF MAIN BEAM LINES INSTRUMENTATION AND CONTROL SYSTEM. 22-36

PERFORMANCE OF THE HIGH ENERGY PION BEAM AT LAMPF. 22-38

BEAM EMITTANCE GROWTH IN A PROTON STORAGE RING EMPLOYING CHARGE EXCHANGE INJECTION. 22-4

PULSED BEAM CHOPPER FOR LAMPF. 22-45

BEAM INTENSITY MONITORING FOR THE EXTERNAL PROTON BEAM AT LAMPF. 22-5

BEAM INTENSITY MONITORING FOR THE EXTERNAL PROTON BEAM AT LAMPF. 22-5

TESTING AND CALIBRATION OF A FARADAY CUP AND OTHER INTENSITY MONITORS FOR THE EXTERNAL PROTON BEAM AT LAMPF. 22-52

CALCULATED NEUTRON SPECTRUM FROM 800 MEV PROTONS INCIDENT ON A COPPER BEAM STOP. 22-6

CALIBRATION OF THE BEAM SPILL CONTROL SYSTEM AT LAMPF. 22-7

PRODUCTION OF FLUORINE -18 USING ENERGETIC NEUTRONS FROM LAMPF BEAM STOP. 25-179

BEAMS
DIAGNOSES OF DISEASE STATES BY FLUORESCENT MEASUREMENTS UTILIZING SCANNING LASER BEAMS. 5-52

DOSIMETRY FOR PION BEAMS AT LAMPF. 5-57

HYBRID SIMULATION OF SCREW PINCH IMPLOSIONS WITH IMPURITIES AND OF THETA PINCH IMPLOSIONS RESULTING IN REFLECTED ION BEAMS. 10-53

COMPUTER SIMULATION OF COLLECTIVE ION ACCELERATION BY RELATIVISTIC ELECTRON BEAMS. 10-9

PLASMA HEATING BY RELATIVISTIC ELECTRON BEAMS. PART 2. RETURN CURRENT INTERACTION. 20-117

EFFECT OF REFRACTIVE INDEX NONLINEARITY ON THE OPTICAL QUALITY OF HIGH POWER LASER BEAMS. 20-29

BEANS
SELF FLYING ATOMIC BOMBS (NEW MEXICO JUMPING BEANS). 30-82

BEARING
TRANSFER OF MOUSE IGG2 PRODUCTION BY IGM BEARING SPLEEN CELLS SEPARATED BY A FLUORESCENCE ACTIVATED CELL SORTER. 5-141

BEAT
CAN WE BEAT FLUORINE AND HYDROGEN FOR HYDROGEN FLUORIDE LASERS 20-14

BED
INVESTIGATIONS ON POTENTIAL CONDUCTORS FOR A DC SUPERCONDUCTING POWER TRANSMISSION LINE IN A 20 METER TEST BED. 8-21

PILOT MODEL: INDUCTION HEATED ROTATING FLUIDIZED BED. 30-61

BEHAVIOR
MECHANISM AND TYPES OF EXPLOSIVE BEHAVIOR IN HYDROGEN - FLUORINE SYSTEMS. 6-11

PROBLEMS AND POTENTIALITIES OF STABLE ISOTOPES AS TRACERS FOR STUDYING POLLUTANT BEHAVIOR UNDER FIELD CONDITIONS. 7-13

CHEMISTRY OF PLUTONIUM IN RELATION TO ITS BEHAVIOR IN BIOLOGICAL AND ENVIRONMENTAL SYSTEMS. 7-3

THERMAL BEHAVIOR OF ORDERED LIQUID HELIUM -3. 8-54

CONSEQUENCES OF COUPLING COEFFICIENT SATURATION ON THE NONLINEAR BEHAVIOR OF DECAY INSTABILITIES. 10-10

ECOLOGICAL CONSIDERATIONS OF THE BEHAVIOR OF PLUTONIUM IN THE ENVIRONMENT. 17-16

BEHAVIOR OF PLUTONIUM IN THE ENVIRONMENT. 17-3

TURBULENT PUSHER BEHAVIOR. 20-157

EFFECTS OF SOLUTION AND INTERMEDIATE HEAT TREATMENTS ON THE NOTCH - RUPTURE BEHAVIOR OF INCONEL 718. 23-17

FRACTURE BEHAVIOR OF A PLATINUM(30 PERCENT) RHENIUM(6 PERCENT) TUNGSTEN ALLOY BETWEEN ROOM TEMPERATURE AND 1300 DEGREES CELSIUS. 23-22

FRACTURE BEHAVIOR OF IRIDIUM - 0.3 PERCENT TUNGSTEN AT HIGH STRAIN RATES. 23-23

TIME DEPENDENT BEHAVIOR IN ELECTRON HOLE CONDENSATION. 27-18

BEHAVIOUR
ANOMALOUS THERMAL PROPERTY BEHAVIOUR OF URANIUM AT LOW TEMPERATURES. 8-4

BELL
BELL TRANSFORM. 21-11

BENCHMARK
BENCHMARK EXPERIMENTS FOR NUCLEAR DATA. 25-19

BENCHMARK DOPPLER MEASUREMENTS USING A HYBRID STATIC/DYNAMIC HEATING TECHNIQUE. 28-3

BENEATH
MANTLE PROCESSES BENEATH HAWAII. 11-28

BENZENE
DISSOCIATIVE EXCITATION CHANNELS IN THE INTERACTION OF ARGON(3-P-0,2) AND HELIUM (2-3-S) METASTABLE ATOMS WITH METHANE, ETHYLENE, ACETYLENE, AND BENZENE. 6-6

HUGONIOT DATA FOR SEVERAL BENZENE RING LIQUIDS. 18-18

BENZO
PICRYL DERIVATIVES OF BENZO (1,2-D:4,5-D') BISTRIAZOLE AND BENZO (1,2-D:4,5-D') BISTRIAZOLE -4,8- DIONE. 15-19

PICRYL DERIVATIVES OF BENZO (1,2-D:4,5-D') BISTRIAZOLE AND BENZO (1,2-D:4,5-D') BISTRIAZOLE -4,8- DIONE. 15-19

BERYLLIUM
ONE DIMENSIONAL CALCULATIONS OF SHOCK LOADED POLYCRYSTALLINE BERYLLIUM. 18-34

REFLECTED RAREFACTIONS, DOUBLE REGULAR REFLECTIONS, AND MACH WAVES IN ALUMINUM AND BERYLLIUM. 18-39

STUDY OF THE (TRITON,PROTON) REACTIONS ON HELIUM -4, LITHIUM -6, LITHIUM -7 AND BERYLLIUM -9. 25-211

TEST OF THE GENERALIZED PAULI PRINCIPLE AND OF SUPERMULTIPLET SYMMETRY IN THE REACTIONS TRITON + BERYLLIUM -8 TO LITHIUM -6 + HELIUM -6, LITHIUM -6(*0+) + HELIUM -6. 25-217

BETA
FLUORESCENCE LIFETIMES OF ALPHA AND BETA CAROTENES. 5-68

STABILITY OF A DIFFUSE, HIGH BETA, L = 1 SYSTEM. 10-133

STABILITY OF KINK MODES IN HIGH BETA TOKAMAKS. 10-134

STABILITY OF KINK MODES IN HIGH BETA TOKAMAKS 10-135

EFFECT OF LARGE POLOIDAL BETA ON TOKAMAK TRANSPORT. 10-24

ELECTROMAGNETIC ION CYCLOTRON INSTABILITY DRIVEN BY ION ENERGY ANISOTROPY IN HIGH BETA PLASMAS. 10-25

EQUILIBRIUM AND STABILITY OF HIGH BETA DIFFUSE TOKAMAKS. 10-34

HEAT TRANSFER MODEL FOR COMPOSITE FIRST WALL MATERIALS IN A PULSED HIGH BETA CONTROLLED THERMONUCLEAR REACTOR (CTR). 10-46

HYBRID - KINETIC MODEL FOR HIGH BETA PLASMAS. 10-51

HYBRID MODEL STUDIES OF MAGNETIC FIELD DIFFUSION IN HIGH BETA PINCHES. 10-52

ON-LINE PLASMA BETA CALCULATION. 10-93

GAMMA AND BETA DECAY POWER FOLLOWING URANIUM -235 AND PLUTONIUM -239 FISSION BURSTS. 16-5

MONITOR FOR TRITIUM IN AIR CONTAINING OTHER BETA EMITTERS. 17-31

BETA ABSORPTION IN TRITIATED TARGETS AND X RAY COUNTING CORRECTIONS. 20-11

BETHE-SALPETER
BETHE-SALPETER EQUATION FOR NUCLEON -NUCLEON SCATTERING: MATRIX - PADE APPROXIMANTS. 2. 25-20

BHABHA
POINCARE GENERATORS AND FW TRANSFORMATIONS FOR BHABHA FIRST ORDER FIELDS. 25-174

BHABHA FIRST ORDER WAVE EQUATIONS. 2. MASS AND SPIN COMPOSITION, HAMILTONIANS, AND GENERAL SAKATA-TAKETANI REDUCTIONS. 25-21

BHABHA FIRST ORDER WAVE EQUATIONS. 3. POINCARE GENERATORS. 25-22

BIBLIOGRAPHY
BIBLIOGRAPHY OF CHEMISTRY AND METALLURGY DOCUMENTS RECEIVED BY THE LOS ALAMOS DOCUMENT ROOM IN THE PERIOD JANUARY 1, 1947 TO JANUARY 1, 1948. 23-2

BIFURCATING
PARTICULATE TRANSPORT IN THREE DIMENSIONAL FLUID FLOWS THROUGH CURVED AND BIFURCATING VESSELS. 18-37

BIG-TEN
CENTRAL NEUTRON SPECTRUM OF THE FAST CRITICAL ASSEMBLY BIG-TEN. 24-5

BINARY
THERMODYNAMIC PROPERTIES OF THE BINARY LAVES PHASE COMPOUNDS OF PLUTONIUM WITH THE GROUP VIIIA METALS. 7-23

BINDER
DETERMINATION OF BINDER DEGRADATION IN PLASTIC BONDED EXPLOSIVES. 15-4

BINDING
ELECTRON BINDING EFFECTS ON SCATTERING CONTRIBUTION TO MONOCHROMATIC AND MEAN OPACITIES. 4-14

ON SIGNALS GENERATED BY THE BINDING OF MULTIVALENT ANTIGENS TO LYMPHOCYTES. 5-108

SCALAR BINDING OF QUARKS. 25-199

CHARGE ASYMMETRY EFFECTS AND THE TRINUCLEON BINDING ENERGY. 2. INCLUSION OF THE TENSOR FORCE AND SINGLET REPULSION. 25-27

HYDROGEN -3 - HELIUM -3 BINDING ENERGY DIFFERENCE AND POSSIBLE CHARGE ASYMMETRY EFFECTS IN THE NUCLEON - NUCLEON FORCE. 25-95

BIOCHEMICAL
BIOCHEMICAL EVENTS DURING THE MAMMALIAN CELL CYCLE. 5-10

SEQUENTIAL BIOCHEMICAL EVENTS IN PREPARATION FOR DNA REPLICATION AND MITOSIS. 5-130

BIOCHEMISTRY
BIOCHEMISTRY OF G2 AND MITOSIS. 5-11

BIOLOGICAL
BIOLOGICAL EFFECTS OF NEGATIVE PIONS. 5-12

BIOLOGICAL EFFECTS OF THE LOS ALAMOS MESON BEAM ON CELLS IN CULTURE. 5-13

BIOLOGICAL EFFECTS OF ULTRASOUND ON CULTURED MAMMALIAN CELLS. 5-14

FLOW SYSTEM MULTIANGLE LIGHT SCATTERING INSTRUMENT FOR BIOLOGICAL CELL CHARACTERIZATION. 5-66

CHEMISTRY OF PLUTONIUM IN RELATION TO ITS BEHAVIOR IN BIOLOGICAL AND ENVIRONMENTAL SYSTEMS. 7-3

BIOMEDICAL
TUNING OF THE BIOMEDICAL CHANNEL AT LAMPF. 5-142

TUNING OF THE FIRST SECTION OF THE BIOMEDICAL CHANNEL AT LAMPF. 5-143

BIOMEDICAL APPLICATIONS OF THE CLINTON P. ANDERSON MESON PHYSICS FACILITY. 5-15

BIOMEDICAL PROGRAM LEADING TO THERAPEUTIC TRIALS OF PION RADIATION THERAPY AT LOS ALAMOS. 5-16

DIGITAL ENHANCEMENT OF BIOMEDICAL RADIOGRAPHS. 5-55

ISOLATION OF STRONTIUM -82 FROM 200-500 MEV PROTON IRRADIATED MOLYBDENUM TARGETS FOR BIOMEDICAL APPLICATIONS. 5-85

MEDICAL RADIOISOTOPES FROM LAMPF: STRONTIUM -82 - RUBIDIUM -82 PRODUCTION, RECOVERY, AND BIOMEDICAL GENERATOR. 5-98

BIOSYNTHESIZED
QUANTITATIVE ANALYSIS OF CARBON - CARBON COUPLING IN THE CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF MOLECULES BIOSYNTHESIZED FROM CARBON -13 ENRICHED PRECURSORS. 14-10

BIS
DI-MU-(PYRIDINE OXIDE)- BIS(DICHLORO (DIMETHYL SULFOXIDE)COPPER(II)). 7-4

BISMUTH
2P-1H STATES IN LEAD -209 EXCITED BY THE METASTABLE BISMUTH -210 (TRITON, ALPHA) REACTION. 25-5

BISTRIAZOLE
PICRYL DERIVATIVES OF BENZO (1,2-D:4,5-D') BISTRIAZOLE AND BENZO (1,2-D:4,5-D') BISTRIAZOLE -4,8- DIONE. 15-19

PICRYL DERIVATIVES OF BENZO (1,2-D:4,5-D') BISTRIAZOLE AND BENZO (1,2-D:4,5-D') BISTRIAZOLE -4,8- DIONE. 15-19

BLACK
GAMMA RAY BURSTS FROM BLACK HOLE ACCRETION DISKS. 3-16

PARTICLE ACCELERATION NEAR AN ACCRETING BLACK HOLE. 3-33

COKING YIELD AND THE ACIDITY OF CARBON BLACK. 23-6

BLAST
MECHANISM OF CALDERA FORMING ASH BLAST ERUPTIONS. 11-29

APPROXIMATE SPHERICAL BLAST THEORY INCLUDING SOURCE MASS. 26-9

JULY 16TH NUCLEAR EXPLOSION, BLAST MEASUREMENTS WITH CONDENSER GAUGES 30-35

BLAST WAVE. 30-4

BLAST WAVE, VOLUME 7, PART 3. 30-5

SCALING OF A BLAST FROM ONE MEDIUM TO ANOTHER. 30-81

BLUMLEIN
LASER INITIATED KRYTRON SWITCHED BLUMLEIN STRUCTURE FOR PULSE SELECTION. 26-77

BODY
SOME OBSERVATIONS ON THE COMPARATIVE EFFECTS OF INBREEDING AND WHOLE BODY X RAY EXPOSURE TO SEVENTY GENERATIONS OF MICE. 5-134

COMPUTER MODELING OF NEUTRON DOSE AT VARIOUS LOCATIONS WITHIN THE BODY DURING PION RADIOTHERAPY. 5-46

TWO BODY PHOTODISINTEGRATION OF HELIUM -3 AND HYDROGEN -3 22-53

THREE BODY PHOTODISINTEGRATION OF HELIUM -3. 25-221

EFFECTIVE TWO BODY INTERACTION IN SIMPLE NUCLEAR SPECTRA. 25-53

BOILING
POOL BOILING HEAT TRANSFER TO LIQUID HELIUM AND LIQUID NITROGEN IN A NEARLY ZERO GRAVITY ENVIRONMENT. 8-36

BOMB
COMPILATION OF SPECTROSCOPIC OBSERVATION OF AIR AROUND ATOMIC BOMB EXPLOSIONS. 30-13

PHOTOELECTRIC OBSERVATIONS OF BOMB FLASHES AT A LONG DISTANCE. 30-60

POSSIBLE DETECTION OF ATOMIC BOMB EXPLOSION BY PRESSURE MEASUREMENTS AT THE ANTIPODES. 30-63

BOMBARDMENT
MEASUREMENT OF THE 0 DEGREE NEUTRON SPECTRA FROM 647 AND 800 MEV PROTON BOMBARDMENT OF LIGHT NUCLEI. 22-27

NEUTRON SPECTRA FROM PROTON BOMBARDMENT OF DEUTERIUM AT 647 AND 800 MEV. 25-134

BOMBS
EFFECT OF ATMOSPHERIC LIQUID WATER ON ATOMIC BOMBS. 30-20

SELF FLYING ATOMIC BOMBS (NEW MEXICO JUMPING BEANS). 30-82

BOND
BOND LENGTHS AND BOND STRENGTHS IN COMPOUNDS OF THE 5F ELEMENTS. 9-4

BOND LENGTHS AND BOND STRENGTHS IN COMPOUNDS OF THE 5F ELEMENTS. 9-4

BOND GRAPH JUNCTION STRUCTURES. 21-12

BOND GRAPH SIGN CONVENTIONS. 21-13

CALCULATED CONSEQUENCES OF SODIUM BOND LOSS FROM ADVANCED FUEL ELEMENTS. 28-4

CONSEQUENCES OF SODIUM BOND LOSS FROM AN LMFBR (LIQUID METAL FUELED BREEDER REACTOR) CARBIDE FUEL ELEMENT. 28-8

BONDED
DETERMINATION OF BINDER DEGRADATION IN PLASTIC BONDED EXPLOSIVES. 15-4

POSTIRRADIATION RESULTS AND EVALUATION OF SODIUM BONDED URANIUM - PLUTONIUM CARBIDE FUEL ELEMENTS IRRADIATED IN EBR-II. INTERIM REPORT. 28-27

BONDING
COMPRESSION AND BONDING OF ICE VII AND AN EMPIRICAL LINEAR EXPRESSION FOR THE ISOTHERMAL COMPRESSION OF SOLIDS. 4-11

ELECTRON CONFIGURATIONS AND BONDING IN THE EARLY ACTINIDE METALS 4-15

BONE
PROPERTIES OF BONE AT LOW TEMPERATURE AND ITS POTENTIAL AS CRYOSTAT SUPPORT MATERIAL. 8-39

BOOK
BOOK REVIEW: APPLICABLE FINITE MATHEMATICS, BY D. S. MOORE AND J. W. YACKEL. 21-14

BORATE
EVALUATION OF LITHIUM BORATE AS A 7000-R DOSIMETER. 5-59

BORE
INVESTIGATION OF MICRO-CHANNEL PLATES AS PARALLEL BORE ELECTRON COLLIMATORS FOR USE IN A PROXIMITY FOCUSED ULTRA FAST STREAK TUBE. 19-12

MICRO-CHANNEL PLATE AS A PARALLEL BORE COLLIMATOR FOR SOFT X RAY IMAGING. 19-14

BOREHOLE
TRANSDUCER TECHNOLOGY FOR DEEP BOREHOLE GEOTHERMAL ENVIRONMENTS 11-59

CRITICAL BOREHOLE PRESSURE FOR A VERTICAL HYDRAULIC CRACK IN THE PRESENCE OF TWO PRINCIPAL TOTAL STRESSES. 11-9

BOREHOLES
NEW AND MORE ACCURATE METHOD FOR THE DIRECT MEASUREMENTS OF EARTH TEMPERATURE GRADIENTS IN DEEP BOREHOLES. 11-33

BORIDES
MAGNETISM IN NEPTUNIUM BORIDES. 23-35

MAGNETISM IN NEPTUNIUM BORIDES. 23-36

BORON
ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 1. PHASE BOUNDARY, THERMODYNAMICS AND LATTICE PARAMETER. 9-1

ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 2. SUPERCONDUCTING TRANSITION TEMPERATURE. 9-2

STRUCTURE AND HINDERED MOTION OF BORON (3) HYDROGEN(8) ANIONS IN SOLIDS: AN NMR (NUCLEAR MAGNETIC RESONANCE) STUDY. 14-12

STRUCTURE AND MOTION OF B3H8- ANIONS IN SOLIDS: A BORON AND PROTON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY. 14-13

INDUCED PARAMAGNETISM IN URANIUM ALLOYS: A BORON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY OF ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND YTTRIUM TETRABORIDE. 14-8

LASER DRIVEN SYNTHESIS OF BORON HYDROCHLORIDE FROM BORON CHLORIDE AND HYDROGEN 20-69

LASER INDUCED CHEMILUMINESCENCE OF BORON TRICHLORIDE/HYDROGEN SULFIDE MIXTURES 20-75

ION CHARGE EXCHANGE SCATTERING FROM LITHIUM -7, BORON -10, AND CARBON -13. 25-170

BOSON
SELF INTERACTING, BOSON, QUANTUM, FIELD THEORY AND THE THERMODYNAMIC LIMIT IN D DIMENSIONS. 21-72

BOULDER
NUMERICAL METHODS IN FLUID DYNAMICS 1974. 4TH INTERNATIONAL CONFERENCE, BOULDER. PROCEEDINGS, LECTURE NOTES IN PHYSICS, V.35. 18-32

BOUNDARY
ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON PART 1 PHASE BOUNDARY, THERMODYNAMICS AND LATTICE PARAMETER. 9-1

STABILITY ANALYSIS OF SHARP BOUNDARY VLASOV FLUID SCREW PINCH EQUILIBRIA 10-128

STABILITY ANALYSIS OF SHARP BOUNDARY VLASOV FLUID SCREW PINCH EQUILIBRIA. 10-129

FREE SPACE BOUNDARY CONDITIONS 10-42

MAGNETOHYDRODYNAMIC STABILITY OF A SHARP BOUNDARY MODEL OF TOKAMAK 10-78

ACCURACY OF THE WHITE BOUNDARY CONDITION IN R-Z GEOMETRY. 18-1

ENTRAPOLATED COLLOCATION FOR TWO POINT BOUNDARY VALUE PROBLEMS USING CUBIC SPLINES. 21-33

FREE SPACE BOUNDARY CONDITIONS FOR THE TIME DEPENDENT WAVE EQUATION. 27-7

BOW
STANDING WAVES AT LOW MACH NUMBER LAMINAR BOW SHOCKS. 1-28

BREAKDOWN
ELECTRICAL BREAKDOWN AND TRACKING CHARACTERISTICS OF PULSED HIGH VOLTAGES IN CRYOGENIC HELIUM AND NITROGEN. 8-15

BREAKING
ACOUSTIC MEASURING SYSTEM FOR DETERMINING THE BREAKING STRENGTH OF MICROBALLOONS 20-2

GAUGE THEORY AT FINITE TEMPERATURE OF SU(3) SYMMETRY BREAKING AND QUARK MASSES. 25-87

BREEDER
FAST REACTOR FISSION YIELDS FOR URANIUM -233, URANIUM -235, URANIUM -238, AND PLUTONIUM -239 AND DETERMINATION OF BURNUP IN FAST BREEDER REACTOR MIXED OXIDE FUELS. 2-14

CHIT A COST ACCOUNTING PROGRAM FOR POSTIRRADIATION EXAMINATIONS OF FAST BREEDER REACTOR MATERIALS. 2-5

EXPERIENCE RELATED TO THE SAFETY OF ADVANCED LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL ELEMENTS. 17-28

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS, JULY 1 - SEPTEMBER 30, 1975. 28-11

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS, APRIL - JUNE 30, 1975, AND FY 1975. 28-12

LASL ADVANCED PLUTONIUM LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL PROGRAM PUBLICATIONS. 28-21

QUARTERLY REPORT, EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, JANUARY 1 THROUGH MARCH 31, 1975. 28-32

QUARTERLY REPORT, EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-33

CLADDING OVALITIES IN ADVANCED LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL ELEMENTS. 28-6

CONSEQUENCES OF SODIUM BOND LOSS FROM AN LMFBR (LIQUID METAL FUELED BREEDER REACTOR) CARBIDE FUEL ELEMENT. 28-8

BREMSSTRAHLUNG
HOT ELECTRON PRODUCTION, ANOMALOUS ABSORPTION AND EFFECT OF INTENSE ELECTROMAGNETIC FIELDS ON INVERSE BREMSSTRAHLUNG ABSORPTION NEAR THE ELECTRON PLASMA FREQUENCY. 10-50

MESON EXCHANGE CURRENTS IN NEUTRON -PROTON BREMSSTRAHLUNG 25-117

NEUTRON - PROTON BREMSSTRAHLUNG 25-128

BRINE
GEOCHEMICAL IDENTIFICATION OF THE BRINE SOURCE OF THE SABKHAT AR-RIYAS, SAUDI ARABIA. 11-18

BRITTLE
DUCTILE TO BRITTLE TRANSITION OF URANIUM - 0.75 WT PERCENT TITANIUM PENETRATOR CORES 23-10

BROADENED
HIGH TEMPERATURE MEASUREMENTS OF THE STARK BROADENED HE-II 4686 ANGSTROM LINE PROFILE. 10-49

EQUAL AREA PROPERTY OF NARROW RESONANCES INDUCED IN COUPLED DOPPLER BROADENED SYSTEMS BY INTENSE LASER RADIATION. 20-40

BROMIDE
ABSTRACTION VERSUS EXCHANGE IN THE REACTION OF HYDROGEN WITH DEUTERIUM BROMIDE. 6-1

BROMINE
COMPARISON OF THE COMBINED PHASE SPACE TRAJECTORY AND QUASICLASSICAL TRAJECTORY METHODS IN THE STUDY OF REACTION DYANMICS. HYDROGEN + IODINE(2) AND HYDROGEN + BROMINE(2). 6-4

BUBBLE
REACTIVITY CHANGES DUE TO BUBBLE GROWTH OR COLLAPSE IN MOLTEN FUEL SYSTEMS. 28-36

BUILDING
MUMPS CODE BUILDING PACKAGE FOR DATA BASE MANAGEMENT. 5-104

CONTROL SYSTEM DESIGN AND SIMULATION FOR A SOLAR HEATED AND COOLED BUILDING. 12-3

DESIGN OF CONTROLS FOR A SOLAR HEATED BUILDING. 12-5

DYNAMIC SIMULATION OF A SOLAR HEATED AND COOLED BUILDING 12-7

LOS ALAMOS BUILDING COST INDEX. 13-10

DEMOLITION OF BUILDING 12, AN OLD PLUTONIUM FILTER FACILITY. 17-8

DEMOLITION OF BUILDING 12, AN OLD PLUTONIUM FILTER FACILITY 17-9

BUILDING D PLUTONIUM PURIFICATION: EQUIPMENT DRAWINGS. 30-6

BUILDUP
ION STAGE BUILDUP IN A THETA PINCH SEEDED WITH IRON. 10-64

BULK
BULK SUPERCONDUCTIVITY ABOVE 20 DEGREES KELVIN IN NIOBIUM(3)GERMANIUM. 8-6

BULLET
SENSITIVITY OF X-0219 TO BULLET IMPACT. 15-24

BUNDLE
ANALYSIS OF FUEL BUNDLE RADIOGRAPHS USING MODELING 28-1

BUOYANT
W44: A BUOYANT SUPERNOVA REMNANT. 3-46

BURIAL
TRITIUM CONTAINMENT AFTER BURIAL OF CONTAMINATED SOLID WASTE. 30-93

BURN
DETONATION OF HIGH EXPLOSIVES IN LAGRANGIAN HYDRODYNAMIC CODES USING THE PROGRAMMED BURN TECHNIQUE. 18-9

TAMPED THERMONUCLEAR BURN OF DEUTERIUM -TRITIUM MICROSPHERES 20-149

HYDRODYNAMICS AND BURN OF OPTIMALLY IMPLODED DEUTERIUM - TRITIUM SPHERES. 20-51

IMPLOSION, STABILITY, AND BURN OF MULTISHELL FUSION TARGETS. 20-54

LASER DRIVEN IMPLOSION OF SPHERICAL DEUTERIUM - TRITIUM TARGETS TO THERMONUCLEAR BURN CONDITIONS. 20-68

BURNUP
FAST REACTOR FISSION YIELDS FOR URANIUM -233, URANIUM -235, URANIUM -238, AND PLUTONIUM -239 AND DETERMINATION OF BURNUP IN FAST BREEDER REACTOR MIXED OXIDE FUELS. 2-14

FTR (FUSION TEST REACTOR) TAG BURNUP. 28-14

BURST
MODEL COSMIC GAMMA RAY BURST. 3-26

ULTRAVIOLET CHARGE EXCHANGE ENERGY LOSS PARTITION AS A FUNCTION OF BURST ALTITUDE AND YIELD TO MASS RATIO. 4-68

SINGLE BURST CALCULATIONS WITH YAQUI. 18-46

BURSTS
FAST SOLAR ELECTRONS, INTERPLANETARY PLASMA AND KM WAVE TYPE III RADIO BURSTS OBSERVED FROM THE IMP-6 SPACECRAFT 1-10

COSMIC GAMMA RAY BURSTS. 3-12

GAMMA RAY BURSTS FROM BLACK HOLE ACCRETION DISKS. 3-16

OBSERVATIONS OF COSMIC GAMMA RAY BURSTS 3-30

OBSERVATIONS OF GAMMA RAY BURSTS. 3-31

STUDY OF FAST TIME STRUCTURE WITHIN COSMIC GAMMA RAY BURSTS 3-42

CASE OF THE BAFFLING BURSTS. 3-7

ATMOSPHERIC IONIZATION PRODUCED BY SPRINT BURSTS. 4-4

GAMMA AND BETA DECAY POWER FOLLOWING URANIUM -235 AND PLUTONIUM -239 FISSION BURSTS. 16-5

BUSINESSMAN
RESPIRATORY PROTECTION: OSHA AND THE SMALL BUSINESSMAN. 17-50

B3H8-
STRUCTURE AND MOTION OF B3H8- ANIONS IN SOLIDS. A BORON AND PROTON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY 14-13

B5
FABRICATION OF URANIUM LOADED GRAPHITE FUEL ELEMENTS FOR KIWI-B4/B5 REACTORS. 30-27

C
PREPARATION OF HIGH T(C) NIOBIUM(3) GERMANIUM SUPERCONDUCTORS BY CHEMICAL VAPOR DEPOSITION. 8-37

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF (2- CARBON -13) CARBOXYMETHYLCYTOCHROME C. 14-2

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF WHOLE CELLS AND OF CYTOCHROME C FROM NEUROSOPORA CRASSA GROWN WITH CARBON -13 METHIONINE. 14-1

ASM80: A CDC 7600 MACRO CROSS ASSEMBLER FOR HI-15 AND D.E.C PDP-9 AND PDP-15 COMPUTERS. 22-9

SPECIAL REPORT PRESENTED AT JULY MEETING WITH C. A. THOMAS ON FINAL PURIFICATION AND METALLURGY OF 49. 23-54

LIMIT ON PARITY NONCONSERVATION IN P-NUCLEUS SCATTERING AT 6 GEV/C. 25-103

CADMIUM
EMF'S ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM: BARE ELECTRODE EFFECTS, USE OF N UNEQUAL TO 2, PREMONITORY PHENOMENA AND LIQUID STRUCTURE IN GOLD -CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS. 7-5

USE OF ADIABATIC DEMAGNETIZATION TO MEASURE THE ELECTRIC FIELD GRADIENT IN CADMIUM. 6-57

PULSED INFRARED DIFFERENCE FREQUENCY GENERATION IN CADMIUM GERMANIUM -ARSENIC(2). 20-125

OBSERVATION OF THE E2 NUCLEAR RESONANCE EFFECT IN IONIC CADMIUM -112. 22-34

ELECTRIC FIELD GRADIENT IN CADMIUM METAL AND THE DECAY OF METASTABLE CADMIUM -115. 25-61

ELECTRIC FIELD GRADIENT IN CADMIUM METAL AND THE DECAY OF METASTABLE CADMIUM -115. 25-61

CALCIUM
SPECTROPHOTOMETRIC DETERMINATION OF PLUTONIUM IN SOLUTIONS CONTAINING LARGE AMOUNTS OF ALUMINUM, CALCIUM, AND MAGNESIUM. 2-27

EXTENSIVE SPATIAL DISTRIBUTION OF 569.4 NM CALCIUM XV EMISSION IN THE SOLAR CORONA DURING THE ECLIPSE OF 1973. 3-15

NEUTRON DIFFRACTION STUDY OF HEXAAMMINE D3 CALCIUM(0) AT 75 DEGREES KELVIN. 9-15

LIFETIMES OF NEGATIVE PARITY STATES OF SCANDIUM -49 BY THE CALCIUM -48(PROTON, GAMMA)SCANDIUM -49 REACTION. 25-102

CALCIUM -40 (NEUTRON,ALPHA) ARGON -37 CROSS SECTION FROM 3 TO 14.7 MEV. 25-23

CALCIUM -41 (DEUTERON,TRITON) AND (DEUTERON,H) REACTIONS. 25-24

CALCULATE
PHONEX, A COMPUTER PROGRAM TO CALCULATE PHOTONEUTRON SPECTRA. 25-159

CALCULATED
EXPERIMENTAL AND CALCULATED ELECTRONIC STRUCTURE OF GASEOUS CHROMIUM OXYFLUORIDE AND CHROMIUM OXYCHLORIDE. 4-23

CALCULATED AND EXPERIMENTAL ELECTRONIC STRUCTURE OF GASEOUS MANGANESE OXYFLUORIDE AND MANGANESE OXYCHLORIDE. 4-7

ISOTHERMAL LINEAR AND VOLUME COMPRESSION OF PENTAERYTHRITOL TETRANITRATE (PETN) TO 10 GPA (100 KBAR) AND THE CALCULATED SHOCK COMPRESSION 15-16

CALCULATED PERFORMANCE OF STRUCTURED LASER FUSION PELLETS 20-12

CALCULATED NEUTRON SPECTRUM FROM 800 MEV PROTONS INCIDENT ON A COPPER BEAM STOP 22-6

CALCULATED CONSEQUENCES OF SODIUM BOND LOSS FROM ADVANCED FUEL ELEMENTS 28-4

CALCULATING
CALCULATING THREE DIMENSIONAL FLUID FLOWS AT ALL SPEEDS WITH AN EULERIAN-LAGRANGIAN COMPUTING MESH 16-3

ANALOG COMPUTER FOR CALCULATING THE SHUNT IMPEDANCE OF A RESONANT CAVITY 21-4

GENERALIZED DIFFUSION THEORY FOR CALCULATING THE NEUTRON TRANSPORT SCALAR FLUX 24-12

CALCULATION
CALCULATION OF SNR (SUPERNOVA REMNANT) EXTRACTION 1-6

SELF CONSISTENT FIELD CALCULATION OF THE ELECTRONIC STRUCTURE OF THE URANYL ION. 4-59

ON-LINE PLASMA BETA CALCULATION 16-21

NUMERICAL CALCULATION OF FLASHING FROM LONG PIPES USING A TWO FIELD MODEL. 18-26

NUMERICAL CALCULATION OF MULTIPHASE FLUID FLOW 18-27

NUMERICAL CALCULATION OF THE CYLINDER TEST 18-28

NUMERICAL CALCULATION OF TWO PHASE FLOWS 18-29

DEBRIS ENERGY PATCH CALCULATION 18-8

PROPER CALCULATION OF THE FRACTIONAL ORDER NUMBER AT THE CENTER OF A FABRY-PEROT INTERFEROMETER FRINGE SYSTEM 19-16

CALCULATION OF X RAY PINHOLE PHOTOGRAPHS 20-13

NUCLEAR DATA FOR CALCULATION OF RADIOACTIVITY EFFECTS 25-142

NEUTRON MONTE CARLO CALCULATION FOR A 1000 MW PROPULSION REACTOR 30-24

MONTE CARLO CALCULATION OF THE GAMMA RAY HEATING IN A PHOEBUS 1 NOZZLE FROM CORE SOURCES 30-49

CALCULATIONS
ALLCAL, AN INTERACTIVE BASIC PROGRAM FOR SPECTROCHEMICAL CALCULATIONS 2-1

IMPROVED OPACITY CALCULATIONS 3-23

HIGH ALTITUDE LOSS CONE AND CHARGE EXCHANGE CALCULATIONS, AND COMPARISON WITH STARFISH DATA 4-26

IMPROVED OPACITY CALCULATIONS 4-31

SELF CONSISTENT PHONON CALCULATIONS AND EQUATIONS OF STATE OF SOLID HYDROGEN AND DEUTERIUM 4-60

CALCULATIONS ON THE EXCITED STATES OF SMALL MOLECULES 4-8

FAST MOLECULAR TRAJECTORY CALCULATIONS BY HYBRID COMPUTATION A FEASIBILITY STUDY. 6-6

TIME DEPENDENT CALCULATIONS OF EQUILIBRIUM AND STABILITY PROBLEMS IN SCYLLAC AND TOKAMAK GEOMETRIES. 10-149

FIREBALL CALCULATIONS WITH THE SN METHOD. 18-14

LASL CALCULATIONS OF LOW ALTITUDE FIREBALLS USING THE ICED ALE METHOD. 18-21

LOW ALTITUDE FIREBALL CALCULATIONS. 1. COMPARISONS WITH DATA FOR DOMINIC EVENTS. 18-23

ONE DIMENSIONAL CALCULATIONS OF SHOCK LOADED POLYCRYSTALLINE BERYLLIUM. 18-34

SINGLE BURST CALCULATIONS WITH YAQUI. 18-46

TWO DIMENSIONAL FIREBALL CALCULATIONS. 18-54

TWO DIMENSIONAL CALCULATIONS OF ASYMMETRIC LASER FUSION TARGETS USING IRIS. 20-150

INVESTIGATION OF PATTERN RECOGNITION TECHNIQUES FOR THE IDENTIFICATION OF SPLITTING SURFACES IN MONTE CARLO PARTICLE TRANSPORT CALCULATIONS. 21-44

PERSPECTIVE DISPLAYS FOR THREE DIMENSIONAL FINITE DIFFERENCE CALCULATIONS. 21-64

SINGULARITY FITTING IN HYDRODYNAMICAL CALCULATIONS. 2. 21-74

BEAM CALCULATIONS FOR LAMPF MUON CHANNEL 22-3

ONE DIMENSIONAL ELASTIC - PLASTIC CALCULATIONS INVOLVING STRAIN HARDENING AND STRAIN RATE EFFECTS FOR ALUMINUM 23-41

ONE DIMENSIONAL ELASTIC - PLASTIC CALCULATIONS INVOLVING STRAIN HARDENING AND STRAIN RATE EFFECTS FOR ALUMINUM 23-43

LINEAR DISCONTINUOUS FINITE ELEMENT SCHEME IN TIME DEPENDENT TRANSPORT CALCULATIONS 23-12

NEUTRON AND GAMMA TRANSPORT CALCULATIONS FOR SPRINT 23-16

CALCULATIONS OF COULOMB ENERGIES FOR UNIFORM CHARGE DISTRIBUTIONS OF ARBITRARY SHAPE 24-2

CALCULATIONS OF FAST CRITICAL ASSEMBLIES USING ENDF/B CROSS SECTION DATA 24-3

COARSE MESH REBALANCE METHODS COMPATIBLE WITH THE SPHERICAL HARMONIC FICTITIOUS SOURCE IN NEUTRON TRANSPORT CALCULATIONS 24-6

APPROXIMATION OF MULTI CENTRE INTEGRALS ARISING IN PROTON HYDROGEN CHARGE EXCHANGE CALCULATIONS 25-17

SPECTRUM AND SHIELDING MEASUREMENTS AND CALCULATIONS OF NEUTRONS PRODUCED BY 600 MEV PROTONS 25-250

CONSISTENCY AMONG DIFFERENTIAL NUCLEAR DATA AND INTEGRAL OBSERVATIONS THE ALAIN CODE FOR DATA ADJUSTMENT FOR SENSITIVITY CALCULATIONS, AND FOR IDENTIFICATION OF INCONSISTENT DATA 25-16

PINTEMP A COMPUTER PROGRAM FOR FUEL ELEMENT DESIGN CALCULATIONS 26-23

PRELIMINARY TOPICAL REPORT ON COMPARISON REACTOR DISASSEMBLY CALCULATIONS 26-29

CALDERA
MECHANISM OF CALDERA FORMING AND BLAST ERUPTIONS 11-25

CALIBRATION
CALIBRATION STANDARDS FOR COUNTING ASBESTOS 17-4

FABRICATION AND CALIBRATION OF THIN PLASTIC SCINTILLATOR X RAY DETECTORS 19-7

TESTING AND CALIBRATION OF A FARADAY CUP AND OTHER INTENSITY MONITORS FOR THE EXTERNAL PROTON BEAM AT LAMPF 22-32

CALIBRATION OF THE BEAM SPILL CONTROL SYSTEM AT LAMPF 22-7

PHYSICAL STANDARDS AND VALID CALIBRATION 26-22

CALIFORNIA
ORIGIN OF ANDESITE AND DACITE EVIDENCE OF MIXING AT GLASS MOUNTAIN IN CALIFORNIA AND OTHER CIRCUM PACIFIC VOLCANOES 11-35

CALIFORNIUM
COPPER MINING AND MILL ANALYSES BY GAMMA RAYS FROM CAPTURE OF CALIFORNIUM -252 NEUTRONS 2-6

ANALYSIS OF GEOTHERMAL POWER PLANT WATER USING GAMMA RAYS FROM CAPTURE OF CALIFORNIUM -252 NEUTRONS 11-3

SCISSION POINT PARAMETERS DETERMINED BY LIGHT PARTICLE EMISSION IN FISSION OF CALIFORNIUM -252 24-13

NEUTRON FISSION CROSS SECTION OF CALIFORNIUM -249 25-130

TECHNIQUES WITH CALIFORNIUM -252 FOR NEUTRON CAPTURE GAMMA RAY SPECTROSCOPY 25-216

COMPARISON OF COPPER AND GOLD ORE RESPONSES TO NEUTRON CAPTURE AND DECAY GAMMA RAY TECHNIQUES WITH CALIFORNIUM -252 25-33

SYSTEM CONTROL FOR THE MODULATED CALIFORNIUM -252 SOURCE SHUTTLER 26-27

CALIFORNIUM -252 NEUTRON SOURCE SYSTEMS FOR THE ASSAY OF URANIUM AND PLUTONIUM IN FUEL RODS 26-3

CALORIMETER
CALORIMETER MEASUREMENT OF THE KIWI-A GAMMA RADIATION 30-7

CAMAC
HIGH SPEED DIGITIZING WITH CAMAC 20-50

CAMERA
PHOTOSYNTHETIC STUDIES WITH A 10 PSEC RESOLUTION STREAK CAMERA 5-131

DIGITAL TELEVISION CAMERA FOR A THOMSON SCATTERING DETECTOR 10-21

QUANTUM LIMITED NEAR INFRARED VIDICON CAMERA SYSTEM 19-17

STREAK CAMERA STUDIES USING PICOSECOND PULSES OF PHOTOSYNTHESIS AND PLASTIC SCINTILLATORS 20-143

ULTRAFAST STREAK CAMERA 20-160

FAST FRAMING AND X RAY PINHOLE CAMERA TECHNIQUES FOR STUDY OF LASER GENERATED PLASMAS 20-41

CAMERAS
X RAY PINHOLE CAMERAS FOR LASER PLASMA EXPERIMENTS 20-165

CANCER
AUTOMATED CANCER CELL SORTING AND ANALYSIS, APRIL 1 - SEPTEMBER 30, 1975 5-7

AUTOMATED CANCER CELL SORTING AND ANALYSIS, APRIL 1, 1974 - MARCH 31, 1975 5-8

CANDIDA
CARBON -13 FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE STUDIES OF FRACTIONATED CANDIDA UTILIS MEMBRANES 5-17

CANISTERS
INVESTIGATION OF PERFORMANCE OF US ARMY FILTER CANISTERS AND RESPIRATORS EQUIPPED WITH PROTOTYPE FACEPIECES 17-29

CANONICAL
CANONICAL MOMENTA AND NUMERICAL INSTABILITIES IN PARTICLE CODES 10-4

CANONICAL RESOLUTION OF THE MULTIPLICITY PROBLEM FOR U(3) AN EXPLICIT AND COMPLETE CONSTRUCTIVE SOLUTION 21-14

STRUCTURAL PROPERTIES OF THE CANONICAL U(3) RACAH FUNCTIONS AND THE U(3) U(2) PROJECTIVE FUNCTIONS 21-16

CANTED
OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT : CANTED AND PARALLEL MIRRORS 20-107

CAPABILITIES
PROSPECTIVE CAPABILITIES IN SOFTWARE 21-47

COMPARISON OF U.S. - ALLIED AND SOVIET TACTICAL NUCLEAR FORCE CAPABILITIES AND POLICIES 30-12

LOS ALAMOS SCIENTIFIC LABORATORY PROGRAMS AND CAPABILITIES 30-31

CAPACITOR
SUPERSONIC FLOW RESULTING FROM THE INTERACTION OF A HIGH FREQUENCY CAPACITOR OR ELECTROMAGNETIC FIELD WITH AN EXPANDING PLASMA 10-161

CAPACITOR REQUIREMENTS FOR CONTROLLED THERMONUCLEAR EXPERIMENTS AND REACTORS 10-5

CAPILLARY
DETERMINATION OF OXYGEN IN PLUTONIUM BY THE CAPILLARY TRAP METHOD 2-10

CAPSULE
CAPSULE STORAGE AND DENSITY - ANALOG TECHNIQUES 24-4

CAPTURE
COPPER MINING AND MILL ANALYSES BY GAMMA RAYS FROM CAPTURE OF CALIFORNIUM -252 NEUTRONS 2-6

ATOMIC CAPTURE OF NEGATIVE MESONS THE FUZZY FERMI-TELLER MODEL 4-3

ANALYSIS OF GEOTHERMAL POWER PLANT WATER USING GAMMA RAYS FROM CAPTURE OF CALIFORNIUM -252 NEUTRONS 11-3

ANGULAR DISTRIBUTIONS IN THE RADIATIVE CAPTURE OF 14 MEV NEUTRONS 23-11

PARITY VIOLATING ASYMMETRY IN NEUTRON PHOTO CAPTURE BY PROTONS AND THE ISOSPIN STRUCTURE OF THE STRANGENESS CONSERVING NONLEPTONIC WEAK INTERACTIONS 23-153

PHOTON SPECTRUM IN PION CAPTURE ON TRITIUM 23-163

RADIATIVE CAPTURE GAMMA RAYS FROM THE REACTION LEAD -208 (NEUTRON,GAMMA) LEAD -209 FOR 11 MEV INCIDENT NEUTRONS 23-192

TECHNIQUES WITH CALIFORNIUM -252 FOR NEUTRON CAPTURE GAMMA RAY SPECTROSCOPY 23-216

THERMAL NEUTRON CAPTURE AND ABSORPTION CROSS SECTIONS FOR NICKEL -59 23-220

COMPARISON OF COPPER AND GOLD ORE RESPONSES TO NEUTRON CAPTURE AND DECAY GAMMA RAY TECHNIQUES WITH CALIFORNIUM -252 23-33

FAST NUCLEON CAPTURE AS A METHOD FOR INVESTIGATION OF GIANT QUADRUPOLE RESONANCES 23-76

FORE - AFT ANISOTROPY IN THE RADIATIVE CAPTURE OF 14 MEV NEUTRONS 23-82

CARBIDE
NEW METHOD FOR COATING MICROSPHERES WITH ZIRCONIUM CARBIDE AND ZIRCONIUM CARBIDE -CARBON GRADED COATS. 23-41

NEW METHOD FOR COATING MICROSPHERES WITH ZIRCONIUM CARBIDE AND ZIRCONIUM CARBIDE -CARBON GRADED COATS. 23-41

NEW METHOD FOR COATING MICROSPHERES WITH ZIRCONIUM CARBIDE AND ZIRCONIUM CARBIDE -CARBON GRADED COATS. 23-42

NEW METHOD FOR COATING MICROSPHERES WITH ZIRCONIUM CARBIDE AND ZIRCONIUM CARBIDE -CARBON GRADED COATS. 23-42

ZIRCONIUM CARBIDE, A KEY INGREDIENT FOR HIGH TEMPERATURE NUCLEAR FUELS 23-65

TUNGSTEN CARBIDE CRITICAL ASSEMBLY 24-20

POSTIRRADIATION RESULTS AND EVALUATION OF SODIUM BONDED URANIUM - PLUTONIUM CARBIDE FUEL ELEMENTS IRRADIATED IN EBR-II INTERIM REPORT 28-27

CONSEQUENCES OF SODIUM BOND LOSS FROM AN LMFBR (LIQUID METAL FUELED BREEDER REACTOR) CARBIDE FUEL ELEMENT 28-8

EVIDENCE FOR ORDER DISORDER IN PLUTONIUM CARBIDE (0.80) AT LOW TEMPERATURES THROUGH SPECIFIC HEAT MEASUREMENTS 29-2

CARBOHYDRATES
COMPLEX CARBOHYDRATES OF A DETACHMENT VARIANT SUBLINE OF CHO CELLS 5-44

CARBON
MICRO COMBUSTION METHOD FOR THE DETERMINATION OF CARBON 2-17

SAMPLING MIXTURES OF SOIL AND CARBON -14 LABELED PLANT MATERIALS. 2-24

SPECTROPHOTOMETRY OF COOL CARBON STARS 3-41

ON THE (NU(1)-2NU(2)) FERMI RESONANCE LEVELS IN CARBON DIOXIDE 4-27

TRANSITIONS 2S(2)2P(K)(2S2P(K+1)) OF THE NITROGEN(I) AND CARBON(I) ISOELECTRONIC SEQUENCES 4-67

NUCLEAR MAGNETIC RESONANCE OF ROTATIONAL MOBILITY OF MOUSE HEMOGLOBIN LABELED WITH (2- CARBON -13) HISTIDINE. 5-108

CARBON -13 FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE STUDIES OF FRACTIONATED CANDIDA UTILIS MEMBRANES 5-17

DECOMPOSITION OF CARBON -14 LABELED PLANT MATERIALS IN A GRASSLAND SOIL UNDER FIELD CONDITIONS. 5-49

KINETIC PROPERTIES OF AN ENZYME HIGHLY ENRICHED IN CARBON -14. 5-86

CARBON DISULFIDE INSERTION REACTIONS WITH COPPER(I) MERCAPTIDE COMPLEXES 7-1

SYNTHESES WITH STABLE ISOTOPES SODIUM CYANIDE - CARBON -13. 7-18

SYNTHESES WITH STABLE ISOTOPES UREA (CARBON -13), UREA (CARBON -12) AND UREA (CARBON -13,NITROGEN -15) 7-19

SYNTHESES WITH STABLE ISOTOPES UREA (CARBON -13), UREA (CARBON -12), AND UREA (CARBON -13,NITROGEN -15) 7-19

SYNTHESES WITH STABLE ISOTOPES UREA (CARBON -13), UREA (CARBON -12), AND UREA (CARBON -13,NITROGEN -15) 7-19

SYNTHESIS OF CYCLOPENTADIENYL-X CARBON -13 THALLIUM 7-20

FOURIER TRANSFORM CARBON -13 MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 2. LIGAND SUBSTITUTION PROCESSES 7-7

ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 1. PHASE BOUNDARY, THERMODYNAMICS AND LATTICE PARAMETER. 9-1

ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 2. SUPERCONDUCTING TRANSITION TEMPERATURE. 9-2

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13: THE EFFECT OF TEMPERATURE AND LIGHT 14-1

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13. THE EFFECT OF TEMPERATURE AND LIGHT 14-1

QUANTITATIVE ANALYSIS OF CARBON - CARBON COUPLING IN THE CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF MOLECULES BIOSYNTHESIZED FROM CARBON -13 ENRICHED PRECURSORS. 14-10

QUANTITATIVE ANALYSIS OF CARBON - CARBON COUPLING IN THE CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF MOLECULES BIOSYNTHESIZED FROM CARBON -13 ENRICHED PRECURSORS. 14-10

QUANTITATIVE ANALYSIS OF CARBON - CARBON COUPLING IN THE CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF MOLECULES BIOSYNTHESIZED FROM CARBON -13 ENRICHED PRECURSORS. 14-10

QUANTITATIVE ANALYSIS OF CARBON - CARBON COUPLING IN THE CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF MOLECULES BIOSYNTHESIZED FROM CARBON -13 ENRICHED PRECURSORS. 14-10

SPIN LATTICE RELAXATION IN AN AM(XN) SYSTEM: APPLICATION TO CARBON -13 RELAXATION IN ENRICHED MOLECULES. 14-11

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF (2- CARBON -13) CARBOXYMETHYLCYTOCHROME C. 14-2

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF (2- CARBON -13) CARBOXYMETHYLCYTOCHROME C. 14-2

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF WHOLE CELLS AND OF CYTOCHROME C FROM NEUROSOPORA CRASSA GROWN WITH CARBON -13 METHIONINE 14-3

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF WHOLE CELLS AND OF CYTOCHROME C FROM NEUROSOPORA CRASSA GROWN WITH CARBON -13 METHIONINE. 14-3

CARBON -13 NUCLEAR MAGNETIC RESONANCE STUDIES OF ADENOSYLCOBALAMIN AND ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13 14-4

CARBON -13 NUCLEAR MAGNETIC RESONANCE STUDIES OF ADENOSYLCOBALAMIN AND ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13. 14-4

CARBON -13 PARTIALLY RELAXED FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF ORGANOCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13. 14-5

CARBON -13 PARTIALLY RELAXED FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF ORGANOCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13. 14-5

DIFFERENTIAL NUCLEAR OVERHAUSER ENHANCEMENT FOR CARBON -13 SINGLET AND CARBON -13 - CARBON -13 MULTIPLET RESONANCES OF A CARBOXYL CARBON. 14-6

DIFFERENTIAL NUCLEAR OVERHAUSER ENHANCEMENT FOR CARBON -13 SINGLET AND CARBON -13 - CARBON -13 MULTIPLET RESONANCES OF A CARBOXYL CARBON. 14-6

DIFFERENTIAL NUCLEAR OVERHAUSER ENHANCEMENT FOR CARBON -13 SINGLET AND CARBON -13 - CARBON -13 MULTIPLET RESONANCES OF A CARBOXYL CARBON. 14-6

DIFFERENTIAL NUCLEAR OVERHAUSER ENHANCEMENT FOR CARBON -13 SINGLET AND CARBON -13 - CARBON -13 MULTIPLET RESONANCES OF A CARBOXYL CARBON 14-6

FOURIER TRANSFORM CARBON -13 NUCLEAR MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 1. EQUILIBRIUM QUOTIENTS FROM RELATIVE ABUNDANCES OF SOLUTION SPECIES. 14-7

KINETIC PARAMETERS OF CARBONIC ANHYDRASE E BY CARBON -13 NUCLEAR MAGNETIC RESONANCE. 14-9

OPTICAL QUALITY STUDY OF THE LASL CARBON DIOXIDE LASER AMPLIFIER SYSTEM 20-111

PARAMETRIC STUDY OF A MULTIBAND CARBON DIOXIDE LASER. 20-114

PEAK IRRADIANCE MEASUREMENTS ON A 10 J, 1 NS, CARBON DIOXIDE LASER 20-115

ROTATIONAL TEMPERATURE IN A HIGH PRESSURE PULSED CARBON DIOXIDE LASER 20-134

CARBON DIOXIDE LASER DEVELOPMENT AND ASYMMETRY IN LASER DRIVEN IMPLOSIONS. 20-15

TIME DEPENDENCE OF ROTATIONAL TEMPERATURE IN A HIGH PRESSURE PULSED CARBON DIOXIDE LASER. 20-155

DIFFRACTION EFFECTS AND OPTICAL QUALITY IN THE MULTISTAGE AMPLIFICATION OF NANOSECOND CARBON DIOXIDE PULSES. 20-24

EMITTED ELECTRON SPECTRA FROM PLASMAS PRODUCED WITH NEODYMIUM AND CARBON DIOXIDE LASERS 20-36

AMPLIFICATION OF MULTILINE/MULTIBAND CARBON DIOXIDE LASER PULSES. 20-4

GAIN RECOVERY AFTER SATURATION IN SHORT PULSE CARBON DIOXIDE AMPLIFIERS 20-46

HIGH ENERGY IONS FROM A CARBON DIOXIDE LASER PRODUCED PLASMA. 20-48

HIGH RESOLUTION Q BRANCH SPECTRUM FOR CARBON DIOXIDE AT 618 MILLIMETERS 20-49

INTERFEROMETRIC MEASUREMENTS OF THE NONLINEAR REFRACTIVE INDEX COEFFICIENT RELATIVE TO CARBON DISULFIDE IN LASER SYSTEM RELATED MATERIALS. 20-57

ISOTOPIC ENRICHMENT BY MULTIPLE ABSORPTION OF CARBON DIOXIDE LASER RADIATION. 20-63

ISOTOPIC ENRICHMENT OF SULFUR HEXAFLUORIDE IN SULFUR -34 BY MULTIPLE ABSORPTION OF CARBON DIOXIDE LASER RADIATION. 20-64

LASER FUSION EXPERIMENTS AT LOS ALAMOS. PART 2: THE LASL CARBON DIOXIDE SHORT PULSE OSCILLATOR - AMPLIFIER SYSTEM. 20-70

ANOMALOUS DISPERSION EFFECTS ON PULSE PROPAGATION IN HIGH PRESSURE CARBON DIOXIDE AMPLIFIERS 20-8

LASL 2.5 KILOJOULE CARBON DIOXIDE SHORT PULSE LASER SYSTEM. 20-84

MEASUREMENT OF BEAM QUALITY FROM SHORT PULSE CARBON DIOXIDE LASERS. 20-88

METHODS TO REDUCE THE EFFECTS OF SELF LASING AND TARGET REFLECTIONS IN CARBON DIOXIDE LASERS 20-92

MODELOCKED, MULTILINE PULSED CARBON DIOXIDE OSCILLATOR 20-96

MULTIBAND CARBON DIOXIDE OSCILLATOR. 20-97

MULTILINE OPERATION OF A CARBON DIOXIDE OSCILLATOR/AMPLIFIER SYSTEM 20-98

MULTILINE SHORT PULSE AMPLIFICATION AND COMPRESSION IN HIGH GAIN CARBON DIOXIDE LASER AMPLIFIER 20-99

PION CHARGE EXCHANGE ON CARBON -13. 22-42

PROGRESS REPORT, RESEARCH ON CARBON -ALUMINUM COMPOSITES AUGUST 1 - DECEMBER 31, 1974. 22-43

REACTION CARBON -13 (PI-PLUS, PI-ZERO) NITROGEN -13 (G.S.) FOR E(PI-PLUS) = 30 TO 190 MEV 22-49

PROGRESS REPORT, RESEARCH ON CARBON -ALUMINUM COMPOSITES, SEPTEMBER 1, 1973-JANUARY 31, 1974. 23-47

RESEARCH ON CARBON - ALUMINUM COMPOSITES, JANUARY 1 - JUNE 30, 1975. 23-50

COKING YIELD AND THE ACIDITY OF CARBON BLACK 23-6

PHOTOIONIZATION CROSS SECTIONS AND RADIATIVE RECOMBINATION RATE COEFFICIENTS FOR POSITIVE IONS OF CARBON AND GOLD. 25-163

PION CHARGE EXCHANGE SCATTERING FROM LITHIUM -7, BORON -10, AND CARBON -13. 25-170

ELASTIC SCATTERING OF POSITIVE PIONS BY CARBON AT 147 MEV 25-59

ACTIVATION STUDIES OF PION INDUCED REACTIONS ON CARBON, NITROGEN, OXYGEN, FLUORINE, ALUMINUM AND COPPER. 25-8

CARBON -13 LABELLED COMPOUNDS. 30-8

CARBONATE
ALBITE ALTERATION IN A SODIUM CARBONATE SOLUTION 11-2

CARBONIC
KINETIC PARAMETERS OF CARBONIC ANHYDRASE E BY CARBON -13 NUCLEAR MAGNETIC RESONANCE. 14-9

CARBOXYL
DIFFERENTIAL NUCLEAR OVERHAUSER ENHANCEMENT FOR CARBON -13 SINGLET AND CARBON -13 - CARBON -13 MULTIPLET RESONANCES OF A CARBOXYL CARBON 14-6

CARBOXYMETHYLCYTOCHR
CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF (2- CARBON -13) CARBOXYMETHYLCYTOCHROME C. 14-2

CARCINOGENIC
SPOT TEST LIMIT OF DETECTION VALUES FOR CARCINOGENIC AROMATIC AMINES AND THEIR HOMOLOGUES AND ANALOGUES. 17-57

CARCINOGENS
DEVELOPMENT OF SAMPLING AND ANALYTICAL METHODS FOR CARCINOGENS, JULY 1 -DECEMBER 31, 1974. 17-14

CARIBOU
LICHEN FORAGE INGESTION RATES OF FREE ROAMING CARIBOU ESTIMATED WITH FALLOUT CESIUM -137. 30-42

CAROTENES
FLUORESCENCE LIFETIMES OF ALPHA AND BETA CAROTENES. 5-68

CARRIER
RECOVERY OF SPALLOGENIC, CARRIER FREE YTTRIUM -88 FOR RADIOISOTOPIC PHOTONEUTRON SOURCES. 7-15

CARRYING
MAGNETIC FIELD MICROPROBE IN SUPERCONDUCTORS CARRYING A CURRENT. 8-29

TEMPERATURE AND CURRENT DEPENDENCE OF THE MAGNETIC FIELD PROFILES OF NIOBIUM(3)TIN TAPES CARRYING A CURRENT. 8-52

CASE
CASE OF THE BAFFLING BURSTS. 3-7

OPTICAL DIAGNOSTICS OF THE SCYLLAC CTR DEVICE: A CASE STUDY. 10-94

BAYESIAN RELIABILITY ESTIMATION: STATE OF THE ART FOR THE TIME DEPENDENT CASE. 21-10

CASK
ROVER SHIPPING CASK. 13-16

CASTING
USE OF A GENERAL PURPOSE HEAT TRANSFER CODE FOR CASTING SIMULATION. 23-60

CATALOG
PIT CATALOG, DESTINATION KIT. 30-62

CATHODE
COLD CATHODE INVESTIGATION. 20-17

CATHODIC
CATHODIC VACUUM ETCHING TECHNIQUES FOR GRAPHITE FUEL ELEMENT SECTIONS 30-9

CAUSE
IODIZED STARCH GRANULES AS A CAUSE OF STARCH PERITONITIS 5-84

CAVITY
CAVITY STABILITY, FINITE ELEMENT ANALYSIS FOR STEADY AND TRANSIENT CREEP 11-5

GRAVITY WAVES GENERATED BY THE CREATION OF A CYLINDRICAL CAVITY IN WATER 15-12

NUMERICAL METHOD FOR STUDYING THE CIRCULATION PATTERNS OF A FLUID IN A CAVITY 18-30

LASER - FUSION ELECTRIC GENERATING STATIONS BASED ON THE MAGNETICALLY PROTECTED REACTOR CAVITY 20-65

ANALOG COMPUTER FOR CALCULATING THE SHUNT IMPEDANCE OF A RESONANT CAVITY 21-4

ANALYSIS OF CAVITY STABILITY BY THE FINITE ELEMENT METHOD 21-[illegible]

BEAD PERTURBATION MEASUREMENT FOR THE KEK LINAC CAVITY 25-18

CCCC
FTRCOL, A COMPUTER CODE TO GROUP COLLAPSE FTR FILES AND OUTPUT STANDARD CCCC INTERFACE FILES 21-34

CD
SPECTRAL ACCEPTANCE FOR SECOND HARMONIC GENERATION IN CD*A (CESIUM DIDEUTERIUM ARSENATE) 20-137

CDC
ASM40, A CDC 7600 MACRO CROSS ASSEMBLER FOR III-15 AND D.E.C PDP-9 AND PDP-15 COMPUTERS 21-9

CELL
BIOCHEMICAL EVENTS DURING THE MAMMALIAN CELL CYCLE. 5-10

MODIFIED REPLICATE PLATING TECHNIQUE FOR USE IN SOMATIC CELL MUTANT SELECTION 5-102

MULTIPARAMETER CELL SORTING AND ANALYSIS. 5-103

PHOTO INDUCED DNA PROTEIN ADDUCTS IN CHINESE HAMSTER OVARY CELL CHROMATIN. 5-110

POTENTIAL SENSING CELL ANALYZER. 5-117

PREPARATIVE METHODS FOR ANALYSIS OF DNA, PROTEIN AND NUCLEAR - TO - CYTOPLASMIC RATIOS IN NORMAL AND TUMOR CELL POPULATIONS. 5-118

REGULATION OF ADENYLATE CYCLASE ACTIVITY BY CELL SURFACE HYALURONATE IN HUMAN LIMB MESENCHYMAL CELLS IN VITRO. 5-126

SEQUENTIAL PHOSPHORYLATION OF HISTONE SUBFRACTIONS IN THE CHINESE HAMSTER CELL CYCLE. 5-131

TRANSFER OF MOUSE IGG2 PRODUCTION BY IGM BEARING SPLEEN CELLS SEPARATED BY A FLUORESCENCE ACTIVATED CELL SORTER. 5-141

UNIQUE TECHNIQUES FOR CELL CYCLE ANALYSIS UTILIZING MITHRAMYCIN AND FLOW MICROFLUOROMETRY. 5-144

CELL AGE DISTRIBUTION STUDY OF LSA ASCITES LYMPHOMA DURING GROWTH. 5-18

CELL CLASSIFICATION BY LASER LIGHT SCATTERING: IDENTIFICATION AND SEPARATION OF UNSTAINED LEUKOCYTES. 5-19

ANALYSIS OF CELL AGE DISTRIBUTION DURING ASCITES TUMOR GROWTH. 5-2

CELL CLASSIFICATION BY MULTIANGLE LASER LIGHT SCATTERING IN A FLOW SYSTEM. 5-20

CELL CYCLE ANALYSIS: OPENING REMARKS. 5-21

CELL CYCLE ANALYSIS: SESSION SUMMARY. 5-22

CELL CYCLE DEPENDENT PHOSPHORYLATION OF DIFFERENT REGIONS OF F1 HISTONE. 5-23

CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES. 5-24

CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES. 5-24

CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES. 5-25

CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES. 5-25

CELL CYCLE DEPENDENT SURFACE CHANGES IN CHINESE HAMSTER CELLS GROWN IN SUSPENSION CULTURE. 5-26

CELL CYCLE SPECIFIC CHANGES IN ORGANIZATION OF CHROMATIN DETECTED BY POLYANION MEDIATED CHROMATIN DECONDENSATION. 5-27

CELL CYCLE SPECIFIC CHANGES IN CHROMATIN ORGANIZATION 5-28

CELL PREPARATION AND STAINING FOR FLOW SYSTEMS 5-29

CELL SURVIVAL AS A FUNCTION OF DEPTH FOR NEGATIVE PIONS AND HEAVY IONS 5-30

CELLULAR DNA CONTENT AND CHROMOSOME NUMBER IN HETEROPLOID CELL POPULATIONS 5-31

CHAIRMAN'S CLOSING REMARKS SESSION V. THE CELL SURFACE 5-35

CHAIRMAN'S REMARKS SESSION V THE CELL SURFACE 5-36

CHROMOSOME G-BANDING AND DNA CONSTANCY IN ANEUPLOID CELL POPULATIONS 5-39

COMPARATIVE EFFECTS OF THREE NITROSUREA DERIVATIVES ON MAMMALIAN CELL CYCLE PROGRESSION 5-42

DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, APRIL 1 - JUNE 30, 1975 5-50

DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, APRIL 1 - JUNE 30, 1975 5-50

DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, SEPTEMBER 1, 1974 - MARCH 1, 1975 5-51

DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, SEPTEMBER 1, 1974 - MARCH 1, 1975 5-51

DIFFERENTIAL EFFECTS OF TWO CHEMOTHERAPEUTIC AGENTS, STREPTOZOTOCIN AND CHLOROZOTOCIN, ON THE MAMMALIAN CELL CYCLE. 5-54

FLOW SYSTEM MULTIANGLE LIGHT SCATTERING INSTRUMENT FOR BIOLOGICAL CELL CHARACTERIZATION. 5-66

FLOW SYSTEM MULTIANGLE LIGHT SCATTERING INSTRUMENT FOR CELL CHARACTERIZATION. 5-67

AUTOMATED CANCER CELL SORTING AND ANALYSIS, APRIL 1 - SEPTEMBER 30, 1975. 5-7

AUTOMATED CANCER CELL SORTING AND ANALYSIS, APRIL 1, 1974 - MARCH 31, 1975 5-8

INTRODUCTION TO FLOW SYSTEMS FOR CELL ANALYSIS AND SORTING. 5-82

CELLS
AGE RESPONSE FOR LINE CHO CHINESE HAMSTER CELLS EXPOSED TO X IRRADIATION AND ALPHA PARTICLES FROM PLUTONIUM. 5-1

PROCEDURE FOR THE RAPID LYSIS OF MAMMALIAN CELLS PRIOR TO ALKALINE SUCROSE DENSITY GRADIENT CENTRIFUGATION. 5-119

RATE OF DNA SYNTHESIS DURING S PHASE BY MAMMALIAN CELLS IN VITRO. 5-124

REGULATION OF ADENYLATE CYCLASE ACTIVITY BY CELL SURFACE HYALURONATE IN HUMAN LIMB MESENCHYMAL CELLS IN VITRO. 5-126

RNA SYNTHESIS IN CHINESE HAMSTER CELLS. 3. NON-COORDINATE INCREASES DURING INTERPHASE IN SYNTHESIS RATES FOR INFORMOSOMAL, POLYSOMAL, AND HETEROGENEOUS NUCLEAR RNAS. 5-129

BIOLOGICAL EFFECTS OF THE LOS ALAMOS MESON BEAM ON CELLS IN CULTURE. 5-13

SPATIAL DISTRIBUTION OF EFFECTS OF NEGATIVE PIONS ON CULTURED HUMAN CELLS. 5-136

SURVIVAL OF CULTURED MAMMALIAN CELLS IRRADIATED AT VARIOUS DEPTHS IN THE LAMPF NEGATIVE PION THERAPY BEAM. 5-139

BIOLOGICAL EFFECTS OF ULTRASOUND ON CULTURED MAMMALIAN CELLS. 5-14

TRANSFER OF MOUSE IGG2 PRODUCTION BY IGM BEARING SPLEEN CELLS SEPARATED BY A FLUORESCENCE ACTIVATED CELL SORTER. 5-141

CELL CYCLE DEPENDENT SURFACE CHANGES IN CHINESE HAMSTER CELLS GROWN IN SUSPENSION CULTURE. 5-26

APPEARANCE OF CYTOPLASMIC INFORMOSOMES IN CULTURED CHINESE HAMSTER CELLS IN THE ABSENCE OF PROTEIN SYNTHESIS. 5-4

COMPLEX CARBOHYDRATES OF A DETACHMENT VARIANT SUBLINE OF CHO CELLS. 5-44

DIFFERENT DRUGS ARREST CELLS AT A NUMBER OF DISTINCT STAGES IN G2. 5-53

ARRESTED AND CYCLING CHO CELLS AS A KINETIC MODEL. 5-6

EVIDENCE THAT X IRRADIATION INHIBITS DNA REPLICON INITIATION IN CHINESE HAMSTER CELLS. 5-62

EXISTENCE OF A RESIDUAL NUCLEAR PROTEIN MATRIX IN CULTURED CHINESE HAMSTER CELLS. 5-64

HEAVY ION IRRADIATION OF HUMAN AND CHINESE HAMSTER CELLS IN VITRO 5-76

LASER FLOW MICROPHOTOMETERS FOR RAPID ANALYSIS AND SORTING OF INDIVIDUAL MAMMALIAN CELLS 5-92

MAMMALIAN CELLS PROBES AND PROBLEMS 1974 1ST LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM PROCEEDINGS 5-95

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF WHOLE CELLS AND OF CYTOCHROME C FROM NEUROSPORA CRASSA GROWN WITH CARBON -13 METHIONINE 14-3

CELLULAR
CELLULAR DNA CONTENT AND CHROMOSOME NUMBER IN HETEROPLOID CELL POPULATIONS 5-31

CELSIUS
FRACTURE BEHAVIOR OF A PLATINUM(30 PERCENT) RHENIUM(5 PERCENT) TUNGSTEN ALLOY BETWEEN ROOM TEMPERATURE AND 1300 DEGREES CELSIUS 23-22

CENSUS
ANAKTUVUK PASS, ALASKA VILLAGE CENSUS 30-1

CENTER
PROPER CALCULATION OF THE FRACTIONAL ORDER NUMBER AT THE CENTER OF A FABRY-PEROT INTERFEROMETER FRINGE SYSTEM 19-16

CENTRAL
CENTRAL COMPUTING FACILITY PLANNING STUDY TECHNICAL OVERVIEW 21-16

CENTRAL NEUTRON SPECTRUM OF THE FAST CRITICAL ASSEMBLY BIG-TEN 24-5

DEFENSE FORCE FOR NATO'S CENTRAL REGION 30-17

CENTRE
FOUNDATIONS OF THE TRIPLE CENTRE APPROXIMATION 25-83

CENTRIFUGATION
PROCEDURE FOR THE RAPID LYSIS OF MAMMALIAN CELLS PRIOR TO ALKALINE SUCROSE DENSITY GRADIENT CENTRIFUGATION 5-119

CEPHEID
APPLICATIONS OF LINEAR PULSATION THEORY TO THE CEPHEID MASS PROBLEM AND THE DOUBLE MODE CEPHEIDS 3-4

CEPHEID PULSATION THEORY AND MULTIPERIODIC CEPHEID VARIABLES 3-8

CEPHEID PULSATION THEORY AND MULTIPERIODIC CEPHEID VARIABLES 3-8

CEPHEIDS
DOUBLE MODE CEPHEIDS AND U TRA. 3-14

APPLICATIONS OF LINEAR PULSATION THEORY TO THE CEPHEID MASS PROBLEM AND THE DOUBLE MODE CEPHEIDS. 3-4

THEORETICAL COLORS FOR CEPHEIDS WITH TRANSFER EFFECTS NOW EVIDENT IN THEIR LIGHT CURVES. 3-45

CERAMICS
CERAMICS FOR NUCLEAR APPLICATIONS. 23-3

CERIUM
ELECTRONIC STRUCTURE OF ALPHA PRIME CERIUM. 4-20

PROPOSAL REGARDING THE ELECTRONIC STRUCTURE OF ALPHA - CERIUM. 4-51

METASTABLE FCC PLUTONIUM - CERIUM SOLID SOLUTIONS. 23-40

CERMET
HELIUM RELEASE OF PLUTONIA -238 -MOLYBDENUM CERMET FUEL. 23-26

CESIUM
CESIUM -134 IN HUMAN AUTOPSY TISSUE. 5-32

CESIUM -137 ACTIVITY IN A NORMAL NEW MEXICO POPULATION: 1956-1973. 5-33

CESIUM KINETICS DATA FOR ESTIMATING FOOD CONSUMPTION RATES OF TROUT. 5-34

PHONON DRIVEN PHASE CHANGE IN CESIUM LITHIUM CHROMIUM HEXACYANIDE. 9-18

INDEPENDENT FISSION YIELDS OF RUBIDIUM AND CESIUM FROM THERMAL NEUTRON INDUCED FISSION OF PLUTONIUM -239. 16-6

SPECTRAL ACCEPTANCE FOR SECOND HARMONIC GENERATION IN CD*A (CESIUM DIDEUTERIUM ARSENATE). 20-137

INTERACTION BETWEEN CESIUM AND GRAPHITE FOR USE IN THE STUDY OF SURFACE PHENOMENA. 23-31

CESIUM KINETICS IN A MONTANE LAKE ECOSYSTEM. 30-10

LICHEN FORAGE INGESTION RATES OF FREE ROAMING CARIBOU ESTIMATED WITH FALLOUT CESIUM -137. 30-42

CHACHALACA
L = 6.7 QUIET TIME BARIUM SHAPED CHARGE INJECTION EXPERIMENT CHACHALACA. 1-17

CHAIN
ASYMPTOTIC FORM OF PARTITION FUNCTIONS OF LINEAR CHAIN MOLECULES AS APPLICATION OF RENEWAL THEORY 4-3

DISORDERED HARMONIC CHAIN WITH SELF CONSISTENT RESERVOIRS 27-6

CHAINS
PULSE COMPRESSION FOR MORE EFFICIENT OPERATION OF SOLID STATE LASER AMPLIFIER CHAINS 2 20-122

CHAIRMAN S
CHAIRMAN'S CLOSING REMARKS SESSION V THE CELL SURFACE 5-35

CHAIRMAN'S REMARKS SESSION V THE CELL SURFACE 5-36

CHAMBER
OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT 1 CANTED AND PARALLEL MIRRORS 20-107

OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT 2 PARALLEL MIRRORS, MULTITRAVEL 20-108

OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT 3 ASYMMETRIC CONFOCAL RESONATOR 20-109

VERY HIGH INTENSITY REACTION CHAMBER DESIGN 20-163

CHAMBERS
DELAY LINE READOUT OF ANODE PLANES IN PROPORTIONAL CHAMBERS 19-3

CHANGE
PHONON DRIVEN PHASE CHANGE IN CESIUM LITHIUM CHROMIUM HEXACYANIDE 9-18

CHANGES
CELL CYCLE DEPENDENT SURFACE CHANGES IN CHINESE HAMSTER CELLS GROWN IN SUSPENSION CULTURE 5-26

CELL CYCLE SPECIFIC CHANGES IN ORGANIZATION OF CHROMATIN DETECTED BY POLYANION MEDIATED CHROMATIN DECONDENSATION 5-27

CELL CYCLE SPECIFIC CHANGES IN CHROMATIN ORGANIZATION 5-28

REACTIVITY CHANGES DUE TO BUBBLE GROWTH OR COLLAPSE IN MOLTEN FUEL SYSTEMS 28-36

CHANNEL
TUNING OF THE BIOMEDICAL CHANNEL AT LAMPF 5-142

TUNING OF THE FIRST SECTION OF THE BIOMEDICAL CHANNEL AT LAMPF 5-143

DESIGN OF THE LAMPF LOW ENERGY PION CHANNEL 22-10

LAMPF MUON CHANNEL OPERATION. 22-24

BEAM CALCULATIONS FOR LAMPF MUON CHANNEL 22-3

CHANNELING
PLANAR CHANNELING THEORY. QUANTUM AND CLASSICAL. 27-13

CHANNELS
DISSOCIATIVE EXCITATION CHANNELS IN THE INTERACTION OF ARGON(3-P-0,2) AND HELIUM (2-3-S) METASTABLE ATOMS WITH METHANE, ETHYLENE, ACETYLENE, AND BENZENE. 6-6

CHAPTERS
NUMERICAL METHODS. LOS ALAMOS TECHNICAL SERIES, VOLUME 2, PART 1, CHAPTERS 1-5. 21-57

NUMERICAL METHODS. LOS ALAMOS TECHNICAL SERIES, VOLUME 2, PART 2, CHAPTERS 6-8. 21-58

CHARACTERIZATION
DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, APRIL 1 - JUNE 30, 1975. 5-50

DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, SEPTEMBER 1, 1974 - MARCH 1, 1975. 5-51

FLOW SYSTEM MULTIANGLE LIGHT SCATTERING INSTRUMENT FOR BIOLOGICAL CELL CHARACTERIZATION. 5-66

FLOW SYSTEM MULTIANGLE LIGHT SCATTERING INSTRUMENT FOR CELL CHARACTERIZATION. 5-67

SYNTHESIS, CHARACTERIZATION AND STRUCTURE OF URANIUM OXIDE TETRAFLUORIDE. 9-27

CHARACTERIZATION OF ROCK MELTS AND GLASSES FORMED BY EARTH MELTING SUBTERRENES. 11-6

CHARACTERIZATION OF TRANSURANIC SOLID WASTES FROM A PLUTONIUM PROCESSING FACILITY. 30-11

CHARACTERS
ALGORITHMS TO REVEAL THE REPRESENTATION OF CHARACTERS, INTEGERS AND FLOATING POINT NUMBERS. 21-2

CHARCOAL
ADSORPTION OF RADIOKRYPTON ON ACTIVATED CHARCOAL IN THE PRESENCE OF HYDROGEN. 27-2

CHARGE
L = 6.7 QUIET TIME BARIUM SHAPED CHARGE INJECTION EXPERIMENT CHACHALACA 1-17

VLF RADIO PHENOMENA FOLLOWING A BARIUM SHAPED CHARGE RELEASE AT L APPROXIMATELY EQUALS 6.5 1-32

HIGH ALTITUDE LOSS CONE AND CHARGE EXCHANGE CALCULATIONS, AND COMPARISON WITH STARFISH DATA 6-26

ULTRAVIOLET CHARGE EXCHANGE ENERGY LOSS PARTITION AS A FUNCTION OF BURST ALTITUDE AND YIELD TO MASS RATIO 6-46

COLLISIONS OF NEON*(3S) AND NEON(+) WITH NEON. EXCITATION AND CHARGE TRANSFER, ELASTIC SCATTERING, AND DIFFUSION. 4-9

TRANSIENT CHARGE EXCHANGE EFFECTS IN A NEUTRAL GAS LAYER 19-151

DOME DEPTH ABOVE A DEPTH CHARGE IN WATER 15-5

NUCLEAR CHARGE DISTRIBUTION IN FISSION SPECTRUM NEUTRON INDUCED FISSION FRACTIONAL CUMULATIVE YIELDS OF RARE GAS NUCLIDES FROM FISSION OF URANIUM -235 AND URANIUM -238 16-10

REVIEW OF SOFT X RAY LASERS USING CHARGE EXCHANGE 29-133

EFFECT OF SECONDARY ELECTRONS ON CHARGE COLLECTOR MEASUREMENT OF A LASER PRODUCED PLASMA. 29-32

BEAM EMITTANCE GROWTH IN A PROTON STORAGE RING EMPLOYING CHARGE EXCHANGE INJECTION 22-4

PION CHARGE EXCHANGE ON CARBON -13 22-42

CALCULATIONS OF COULOMB ENERGIES FOR UNIFORM CHARGE DISTRIBUTIONS OF ARBITRARY SHAPE 24-2

MUONIC X RAY MEASUREMENTS OF NUCLEAR CHARGE RADII IN THE MASS 60 REGION 25-138

NUCLEAR CHARGE DISTRIBUTIONS IN THE MASS 60 REGION: NEW EVIDENCE FROM MUONIC ISOTOPE SHIFT MEASUREMENTS 25-140

NUCLEAR CHARGE PARAMETERS FOR THE ODD-A ACTINIDES URANIUM -235 AND PLUTONIUM -239 25-141

PHOTON PROPAGATION IN NUCLEAR MATTER AND THE CORRECTION TO THE THEORETICAL NUCLEAR CHARGE DENSITY 25-164

PION CHARGE EXCHANGE ON TRITIUM. 25-167

PION CHARGE EXCHANGE REACTIONS WITH NUCLEI 25-168

PION CHARGE EXCHANGE SCATTERING FROM LIGHT NUCLEI. 25-169

APPROXIMATION OF MULTI-CENTRE INTEGRALS ARISING IN PROTON - HYDROGEN CHARGE EXCHANGE CALCULATIONS 25-17

PION CHARGE EXCHANGE SCATTERING FROM LITHIUM -7, BORON -10, AND CARBON -13. 25-170

ROLE OF TWO NUCLEON SHORT RANGE CORRELATIONS IN PION CHARGE EXCHANGE REACTIONS WITH NUCLEI. 25-198

(PI,PI-N) PUZZLE. EFFECTS OF PION CHARGE EXCHANGE. 25-2

SURVEY OF PION CHARGE EXCHANGE REACTIONS WITH NUCLEI. 25-213

CHARGE ASYMMETRY EFFECTS AND THE TRINUCLEON BINDING ENERGY. 2. INCLUSION OF THE TENSOR FORCE AND SINGLET REPULSION. 25-27

CHARGE INDEPENDENCE IN THE MASS 6 SYSTEM AS OBSERVED IN THE LITHIUM -6 (TRITON, HELIUM -3)HELIUM -6(0.0) AND LITHIUM -6 (TRITON,TRITON') LITHIUM -6 (3.56) REACTIONS. 25-28

EFFECTS OF NUCLEON CHARGE EXCHANGE ON THE PION KNOCKOUT PUZZLE. 25-54

EXPERIMENTAL EVIDENCE FOR THE EXISTENCE OF THE CHARGE EXCHANGE MODE OF GIANT RESONANCES. 25-74

HYDROGEN -3 - HELIUM -3 BINDING ENERGY DIFFERENCE AND POSSIBLE CHARGE ASYMMETRY EFFECTS IN THE NUCLEON - NUCLEON FORCE. 25-95

CHARGED
CHARGED PARTICLE MASS AND ENERGY DEPOSITION IN A THERMONUCLEAR PLASMA. 10-7

EFFECTS OF REACTOR NEUTRON, 14 MEV NEUTRON AND ENERGETIC CHARGED PARTICLE IRRADIATIONS ON THE CRITICAL CURRENT IN NIOBIUM(3)TIN. 23-16

CHEMICAL
CHEMICAL ANALYSIS OF NUCLEAR FUELS FOR MAJOR CONSTITUENTS. 2-4

USE OF MESONS FOR TISSUE CHEMICAL ANALYSIS. 5-146

CHEMICAL REACTION DYNAMICS. PART 2. REACTION NETWORKS. 6-2

FLUORINE - HYDROGEN EXPLOSION AND ITS POSSIBLE UTILIZATION IN LARGE CHEMICAL LASERS. 6-9

CHEMICAL EQUILIBRIA IN HOT AIR WITH MOISTURE, SALT, AND VAPORIZED METAL CONTAMINANTS 7-2

PREPARATION OF HIGH T(C) NIOBIUM3Ge GERMANIUM SUPERCONDUCTORS BY CHEMICAL VAPOR DEPOSITION 8-37

CHEMICAL CORROSION OF MOLYBDENUM AND TUNGSTEN IN LIQUID BASALT TUFF, AND GRANITE WITH APPLICATION TO SUBTERRENE PENETRATORS 11-7

HYDROGEN FLUORIDE CHEMICAL LASER 20-52

METAL ATOM OXIDATION LASERS: A NEW FAMILY OF CHEMICAL LASERS 20-91

MICROSPHERICAL LASER TARGETS BY CHEMICAL VAPOR DEPOSITION 20-94

MIXTURE STABILITY IN HIGH POWER PULSED HYDROGEN - FLUORINE CHEMICAL LASERS 20-95

ON THE MULTIPLICITY OF SOLUTIONS OF A DIFFERENTIAL EQUATION ARISING IN CHEMICAL REACTOR THEORY 21-60

LOW TEMPERATURE THERMAL AND ELECTRICAL PROPERTIES OF CHEMICAL VAPOR DEPOSITED NIOBIUM3GERMANIUM 23-34

CHEMICAL METHODS FOR PREPARATION OF COMBINATIONS OF MOLYBDENUM, TUNGSTEN, AND URANIUM OXIDES 23-4

CHEMICAL VAPOR DEPOSITION OF TUNGSTEN 23-5

CHEMICALLY
RICE: A COMPUTER PROGRAM FOR MULTICOMPONENT CHEMICALLY REACTIVE FLOWS AT ALL SPEEDS 18-41

TRANSIENT DYNAMICS OF CHEMICALLY REACTIVE GASEOUS MIXTURES WITH TURBULENCE 18-52

CHEMILUMINESCENCE
LASER INDUCED CHEMILUMINESCENCE OF BORON TRICHLORIDE/HYDROGEN SULFIDE MIXTURES 20-75

CHEMISTRY
CHEMISTRY COMPUTATIONS FOR IRRADIATED HOT AIR 6-1

LOS ALAMOS PROJECT HANDBOOK: CHEMISTRY OF PLUTONIUM 7-12

CHEMISTRY OF PLUTONIUM IN RELATION TO ITS BEHAVIOR IN BIOLOGICAL AND ENVIRONMENTAL SYSTEMS 7-3

HYDRATION ENERGIES AND SPECIFIC INFLUENCE OF OXO COMPLEXES AND HIGH COORDINATION NUMBERS ON THE PREDICTED CHEMISTRY OF SUPERHEAVY ELEMENTS 7-9

PETROGRAPHY AND CHEMISTRY OF MINERALS AND GLASS IN ROCKS PARTIALLY FUSED BY ROCK MELTING DRILLS 11-38

RECENT EXPERIMENTAL RESULTS OF THE MESIC CHEMISTRY PROGRAM AT LAMPF 22-50

BIBLIOGRAPHY OF CHEMISTRY AND METALLURGY DOCUMENTS RECEIVED BY THE LOS ALAMOS DOCUMENT ROOM DURING THE PERIOD JANUARY 1, 1947 TO JANUARY 1, 1948 23-2

ANALYTICAL CHEMISTRY PROGRAM FOR THE ANALYSIS OF URANIUM LOADED FUEL ELEMENTS 28-2

CHEMOTHERAPEUTIC
DIFFERENTIAL EFFECTS OF TWO CHEMOTHERAPEUTIC AGENTS, STREPTOZOTOCIN AND CHLOROZOTOCIN, ON THE MAMMALIAN CELL CYCLE 5-54

CHINESE
AGE RESPONSE FOR LINE CHO CHINESE HAMSTER CELLS EXPOSED TO X IRRADIATION AND ALPHA PARTICLES FROM PLUTONIUM 5-1

PHOTO INDUCED DNA PROTEIN ADDUCTS IN CHINESE HAMSTER OVARY CELL CHROMATIN. 5-110

RNA SYNTHESIS IN CHINESE HAMSTER CELLS. 3. NON-COORDINATE INCREASES DURING INTERPHASE IN SYNTHESIS RATES FOR INFORMOSOMAL, POLYSOMAL, AND HETEROGENEOUS NUCLEAR RNAS. 5-129

SEQUENTIAL PHOSPHORYLATION OF HISTONE SUBFRACTIONS IN THE CHINESE HAMSTER CELL CYCLE. 5-131

CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES. 5-24

CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES 5-25

CELL CYCLE DEPENDENT SURFACE CHANGES IN CHINESE HAMSTER CELLS GROWN IN SUSPENSION CULTURE. 5-26

APPEARANCE OF CYTOPLASMIC INFORMOSOMES IN CULTURED CHINESE HAMSTER CELLS IN THE ABSENCE OF PROTEIN SYNTHESIS. 5-4

EVIDENCE THAT X IRRADIATION INHIBITS DNA REPLICON INITIATION IN CHINESE HAMSTER CELLS. 5-62

EXISTENCE OF A RESIDUAL NUCLEAR PROTEIN MATRIX IN CULTURED CHINESE HAMSTER CELLS. 5-64

FLOW MICROFLUOROMETRIC ANALYSIS OF ISOLATED CHINESE HAMSTER CHROMOSOMES. 5-65

HEAVY ION IRRADIATION OF HUMAN AND CHINESE HAMSTER CELLS IN VITRO 5-74

CHIRAL
CHIRAL SYMMETRY AND PION CONDENSATION. 1. MODEL DEPENDENT RESULTS 25-29

CHIRAL SYMMETRY AND PION CONDENSATION. 2. GENERAL FORMALISM 25-30

CHIT
CHIT: A COST ACCOUNTING PROGRAM FOR POSTIRRADIATION EXAMINATIONS OF FAST BREEDER REACTOR MATERIALS 4-

CHLORIDE
PARADOX: THE THERMAL RATE COEFFICIENT FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION 6-11

PARADOX: THE THERMAL RATE COEFFICIENT FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION 6-11

DAMAGE THRESHOLDS IN ZINC SELENIDE, AR COATED SODIUM CHLORIDE AND MICROMACHINED MIRRORS BY 10.6 MICRON MULTIMODE, NANOSECOND PULSES 20-21

LASER DRIVEN SYNTHESIS OF BORON HYDRO HLORIDE FROM BORON CHLORIDE AND HYDROGEN 20-69

CHLOROBIS
CRYSTAL AND MOLECULAR STRUCTURE OF CHLOROBIS (1-BUTENYL)DIPHENYLPHOSPHINO RHODIUM(I) 9-6

CHLOROZOTOCIN
DIFFERENTIAL EFFECTS OF TWO CHEMOTHERAPEUTIC AGENTS, STREPTOZOTOCIN AND CHLOROZOTOCIN, ON THE MAMMALIAN CELL CYCLE 5-54

CHO
AGE RESPONSE FOR LINE CHO CHINESE HAMSTER CELLS EXPOSED TO X IRRADIATION AND ALPHA PARTICLES FROM PLUTONIUM 5-1

COMPLEX CARBOHYDRATES OF A DETACHMENT VARIANT SUBLINE OF CHO CELLS 5-44

ARRESTED AND CYCLING CHO CELLS AS A KINETIC MODEL 5-6

FOUR FACES OF CHO 5-69

CHOPPER
PULSED BEAM CHOPPER FOR LAMPF 22-45

CHOU YANG
PROTON - PROTON SCATTERING, THE CHOU YANG MODEL, AND PROTON FORM FACTORS 25-184

CHROMATIN
PHOTO INDUCED DNA PROTEIN ADDUCTS IN CHINESE HAMSTER OVARY CELL CHROMATIN 5-110

CELL CYCLE SPECIFIC CHANGES IN ORGANIZATION OF CHROMATIN DETECTED BY POLYANION MEDIATED CHROMATIN DECONDENSATION 5-27

CELL CYCLE SPECIFIC CHANGES IN ORGANIZATION OF CHROMATIN DETECTED BY POLYANION MEDIATED CHROMATIN DECONDENSATION 5-27

CELL CYCLE SPECIFIC CHANGES IN CHROMATIN ORGANIZATION 5-28

CHROMIUM
EXPERIMENTAL AND CALCULATED ELECTRONIC STRUCTURE OF GASEOUS CHROMIUM OXYFLUORIDE AND CHROMIUM OXYCHLORIDE 4-23

EXPERIMENTAL AND CALCULATED ELECTRONIC STRUCTURE OF GASEOUS CHROMIUM OXYFLUORIDE AND CHROMIUM OXYCHLORIDE 4-23

KINETICS OF THE REACTION BETWEEN PLUTONIUM(III) AND CHROMIUM(VI) IN AQUEOUS PERCHLORATE SOLUTIONS. 7-11

PHONON DRIVEN PHASE CHANGE IN CESIUM LITHIUM CHROMIUM HEXACYANIDE 9-18

CHROMOSOME
RELATIONSHIP OF HISTONE PHOSPHORYLATION TO THE CHROMOSOME CYCLE 5-127

CELLULAR DNA CONTENT AND CHROMOSOME NUMBER IN HETEROPLOID CELL POPULATIONS. 5-31

CHROMOSOME G-BANDING AND DNA CONSTANCY IN ANEUPLOID CELL POPULATIONS. 5-39

CHROMOSOMES
FLOW MICROFLUOROMETRIC ANALYSIS OF ISOLATED CHINESE HAMSTER CHROMOSOMES 5-65

CHRONOLOGY
PARTIAL CHRONOLOGY OF Z PINCH STUDIES AT LOS ALAMOS SCIENTIFIC LABORATORY, 1952-1976. 10-97

CINDER
CINDER CONE SEPARATION DISTANCES: IMPLICATIONS FOR THE DEPTH OF FORMATION OF GABBROIC XENOLITHS. 11-8

CINDER-7
CINDER-7: AN INTERIM REPORT FOR USERS. 28-5

CIRCUITRY
COMPUTER AIDED DESIGN OF ELECTRONIC CIRCUITRY 21-16

CIRCUITS
EXPLOSIVE LOGIC CIRCUITS 15-10

HYBRID COMPUTER SIMULATION OF TRANSMISSION LINE CIRCUITS 21-39

CIRCULAR
CIRCULAR DICHROISM SPECTRA OF POLY D(AC-DGT)* POLY D(AC-DGC)* AND HYBRIDS POLY D(AC-DGC)* AND POLY D(AC-DGT)* IN THE PRESENCE OF ETHANOL 5-40

IMMUNODIFFUSION IN GELS CONTAINING ERYTHROCYTE ANTIGEN - I. THEORY FOR DIFFUSION OF ANTISERUM FROM A CIRCULAR WELL. 5-76

LOGNORMAL DAMAGE FUNCTION WITH OFFSET CIRCULAR NORMAL TARGET AND WEAPON LOCATIONS MEAN AND OTHER MOMENTS 30-43

CIRCULATION
NUMERICAL METHOD FOR STUDYING THE CIRCULATION PATTERNS OF A FLUID IN A CAVITY 18-30

CIRCUM PACIFIC
ORIGIN OF ANDESITE AND DACITE EVIDENCE OF MIXING AT GLASS MOUNTAIN IN CALIFORNIA AND OTHER CIRCUM PACIFIC VOLCANOES 11-35

CLADDING
CLADDING OVALITIES IN ADVANCED LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL ELEMENTS 28-6

CLASSES
COMPARING CERTAIN CLASSES OF DIFFERENCE AND FINITE ELEMENT SCHEMES FOR A HYPERBOLIC PROBLEM 21-17

CLASSICAL
DESCRIPTION OF COLLISIONLESS PLASMAS BY CLASSICAL FIELD EQUATIONS 10-17

CLASSICAL TRANSPORT IN A MOVING FLUID. 18-4

PION PRODUCTION FROM A CLASSICAL SOURCE TRANSPORT AND HYDRODYNAMICAL PROPERTIES 25-171

PLANAR CHANNELING THEORY QUANTUM AND CLASSICAL 27-13

CLASSIFICATION
CELL CLASSIFICATION BY LASER LIGHT SCATTERING. IDENTIFICATION AND SEPARATION OF UNSTAINED LEUKOCYTES 5-19

CELL CLASSIFICATION BY MULTIANGLE LASER LIGHT SCATTERING IN A FLOW SYSTEM 5-20

CLASSIFICATION OF HUMAN LEUKOCYTES BY MULTIANGLE LASER LIGHT SCATTERING IN A FLOW SYSTEM. 5-41

CLEANING
DESIGN OF VENTILATION AND AIR CLEANING SYSTEMS FOR THE NEW LOS ALAMOS PLUTONIUM FACILITY 17-10

CLEBSCH-GORDAN
DIRECT USE OF YOUNG TABLEAU ALGEBRA TO GENERATE THE CLEBSCH GORDAN COEFFICIENTS OF SU(2)*. 27-4

CLEFT
TWO BARIUM PLASMA INJECTIONS INTO THE NORTHERN MAGNETOSPHERIC CLEFT 1-30

CLIMATICALLY
CLIMATICALLY ADAPTED STRUCTURES. 12-2

CLINTON
BIOMEDICAL APPLICATIONS OF THE CLINTON P. ANDERSON MESON PHYSICS FACILITY 5-15

CLINTON P. ANDERSON MESON PHYSICS FACILITY RADIOISOTOPE PROGRAM. 22-8

CLOSED
STABILITY OF A CLOSED LINE SCYLLAC CONFIGURATION. 10-132

CLOSING
CHAIRMAN'S CLOSING REMARKS. SESSION V: THE CELL SURFACE. 5-35

CLOUD
SUGGESTED OBSERVATIONS OF SUPERNOVA REMNANTS IN THE LARGE MAGELLANIC CLOUD 3-43

RADIATION DOSE TO BE EXPECTED FROM AERIAL PENETRATION OF AN ATOMIC CLOUD. 30-72

CLOUDS
MOLECULAR EQUATIONS OF STATE FOR DENSE DUST CLOUDS. 3-27

CLUSTER
CLUSTER SIZE AND THE RAPIDITY GAP LENGTH DISTRIBUTION. 25-31

ESTIMATES OF CLUSTER SIZE IN HIGH ENERGY HADRON COLLISIONS. 25-69

CLUSTERING
WHAT CAN RAPIDITY GAPS TEACH US ABOUT CLUSTERING 25-229

WHAT DO RAPIDITY GAPS SAY ABOUT CLUSTERING 25-230

CLUTTER
DEBRIS AIR INTERACTIONS AND THEIR EFFECTS ON RADAR CLUTTER. 18-7

COAL
NATIONAL ENERGY NEEDS, COAL, AND THE LOS ALAMOS SCIENTIFIC LABORATORY 12-13

COARSE
COARSE MESH REBALANCE METHODS COMPATIBLE WITH THE SPHERICAL HARMONIC FICTITIOUS SOURCE IN NEUTRON TRANSPORT CALCULATIONS 24-6

COATED
DAMAGE THRESHOLDS IN ZINC SELENIDE, A/R COATED SODIUM CHLORIDE AND MICROMACHINED MIRRORS BY 10.6 MICRON MULTIJOULE, NANOSECOND PULSES 20-21

COATING
LASER - FUSION TARGET FABRICATION: APPLICATION OF A POLYMERIC ABLATOR COATING TO A BALL AND DISK TARGET DESIGN BY THE PHYSICAL VAPOR DEPOSITION OF POLYETHYLENE. 20-66

NEW METHOD FOR COATING MICROSPHERES WITH ZIRCONIUM CARBIDE AND ZIRCONIUM CARBIDE -CARBON GRADED COATS. 23-41

NEW METHOD FOR COATING MICROSPHERES WITH ZIRCONIUM CARBIDE AND ZIRCONIUM CARBIDE -CARBON GRADED COATS. 23-42

COATINGS
RECENT DEVELOPMENTS IN LASER - FUSION TARGET COATINGS. 20-129

VAPOR PHASE COATINGS OF METALS AND ORGANICS FOR LASER FUSION TARGET APPLICATIONS. 23-63

COATS
NEW METHOD FOR COATING MICROSPHERES WITH ZIRCONIUM CARBIDE AND ZIRCONIUM CARBIDE -CARBON GRADED COATS. 23-41

NEW METHOD FOR COATING MICROSPHERES WITH ZIRCONIUM CARBIDE AND ZIRCONIUM CARBIDE -CARBON GRADED COATS 23-42

COBALT
RETENTION AND EXCRETION OF COBALT -60 IN MICE, RATS, MONKEYS, AND DOGS 5-128

CODE
MUMPS CODE BUILDING PACKAGE FOR DATA BASE MANAGEMENT. 5-104

GAP A PIC-TYPE FLUID CODE. 18-16

LATE TIME PHENOMENOLOGY PREDICTIONS WITH AN ALMOST LAGRANGIAN CODE 18-22

RAMSES, A TWO DIMENSIONAL, PIC TYPE, LASER PULSE PROPAGATION CODE. 20-128

TWO DIMENSIONAL LAGRANGIAN LASER PELLET SIMULATION CODE. 20-159

FTRCOL: A COMPUTER CODE TO GROUP COLLAPSE FTR FILES AND OUTPUT STANDARD CCCC INTERFACE FILES. 21-34

MONTE CARLO CODE DEVELOPMENT IN LOS ALAMOS. 21-47

MONTE CARLO CODE DEVELOPMENT IN LOS ALAMOS. 21-48

OPTION: A COMPUTER CODE TO SOLVE STEADY STATE FLUID THERMAL ENGINEERING PROBLEMS. 21-62

USE OF A GENERAL PURPOSE HEAT TRANSFER CODE FOR CASTING SIMULATION. 23-60

ONETRAN: A DISCRETE ORDINATES FINITE ELEMENT CODE FOR THE SOLUTION OF THE ONE DIMENSIONAL MULTIGROUP TRANSPORT EQUATION. 24-17

CONSISTENCY AMONG DIFFERENTIAL NUCLEAR DATA AND INTEGRAL OBSERVATIONS: THE ALVIN CODE FOR DATA ADJUSTMENT, FOR SENSITIVITY CALCULATIONS, AND FOR IDENTIFICATION OF INCONSISTENT DATA. 25-36

CODES
CANONICAL MOMENTA AND NUMERICAL INSTABILITIES IN PARTICLE CODES. 10-4

IMPLICATIONS TO THE CTR COMMUNITY OF STANDARDIZATION IN NUCLEAR ANALYSIS CODES. 10-54

DETONATION OF HIGH EXPLOSIVES IN LAGRANGIAN HYDRODYNAMIC CODES USING THE PROGRAMMED BURN TECHNIQUE. 18-9

THREE DIMENSIONAL MESH GENERATOR FOR FINITE ELEMENT COMPUTER CODES. 21-81

COEFFICIENT
ON THE THERMAL RATE COEFFICIENT AND ACTIVATION ENERGY OF THE IODINE + IODINE(2) ATOM EXCHANGE REACTION. 6-12

PARADOX: THE THERMAL RATE COEFFICIENT FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION. 6-13

CONSEQUENCES OF COUPLING COEFFICIENT SATURATION ON THE NONLINEAR BEHAVIOR OF DECAY INSTABILITIES. 10-10

COUPLING COEFFICIENT SATURATION IN THE NONLINEAR THEORY OF PARAMETRIC INSTABILITIES. 10-14

INTERFEROMETRIC MEASUREMENTS OF THE NONLINEAR REFRACTIVE INDEX COEFFICIENT RELATIVE TO CARBON DISULFIDE IN LASER SYSTEM RELATED MATERIALS. 20-57

CONVERGENCE ESTIMATES FOR GALERKIN METHODS FOR VARIABLE COEFFICIENT INITIAL VALUE PROBLEMS. 21-27

COEFFICIENTS
COMPARISON OF LOCKHEED AND AFWL BASED ABSORPTION COEFFICIENTS FOR AIR. 4-10

SPLINE-GALERKIN METHODS FOR INITIAL VALUE PROBLEMS WITH VARIABLE COEFFICIENTS. 21-75

ON-LINE INTERNAL CONVERSION COEFFICIENTS FOR THE DECAYS OF MASS SEPARATED KRYPTON -91 AND RUBIDIUM -91. 25-149

PHOTOIONIZATION CROSS SECTIONS AND RADIATIVE RECOMBINATION RATE COEFFICIENTS FOR IRON(XV-XXV). 25-162

PHOTOIONIZATION CROSS SECTIONS AND RADIATIVE RECOMBINATION RATE COEFFICIENTS FOR POSITIVE IONS OF CARBON AND GOLD. 25-163

DIRECT USE OF YOUNG TABLEAU ALGEBRA TO GENERATE THE CLEBSCH-GORDAN COEFFICIENTS OF SU(2)*. 27-4

COHERENT
COHERENT INELASTIC ELECTRON SCATTERING IN LEED (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF ARSENIC(0001). 9-5

COHERENT MULTIPLE PHOTON PUMPING OF SIMPLE QUANTUM MECHANICAL SYSTEMS. 20-16

DIFFERENTIAL CROSS SECTIONS FOR COHERENT PHOTON SCATTERING BY ELEMENTS Z=2 THROUGH Z=26. 25-48

COHESION
MELTING AND COHESION IN F ELECTRON METALS. 4-37

COIL
DESIGN OF A FORCE FREE INDUCTIVE STORAGE COIL. 8-11

COILS
STRUCTURAL ENDURANCE CONSTRAINTS FOR HIGH FIELD THETA PINCH COILS. COILS. 10-149

STRUCTURAL ENDURANCE CONSTRAINTS FOR HIGH FIELD THETA PINCH COILS. COILS. 10-140

COINCIDENCE
COINCIDENCE EXPERIMENTS AT INTERMEDIATE ENERGIES. 22-9

SHIFT REGISTER NEUTRON COINCIDENCE MODULE 26-26

COKING
COKING YIELD AND THE ACIDITY OF CARBON BLACK. 23-6

COLD
CRYOGENICS THE UNCOMMON COLD. 8-9

COLD CATHODE INVESTIGATION. 20-17

LINEAR THEORY OF A COLD RELATIVISTIC BEAM PROPAGATING ALONG AN EXTERNAL MAGNETIC FIELD. 20-85

COLLAPSE
FTRCOL: A COMPUTER CODE TO GROUP COLLAPSE FTR FILES AND OUTPUT STANDARD CCCC INTERFACE FILES. 21-34

REACTIVITY CHANGES DUE TO BUBBLE GROWTH OR COLLAPSE IN MOLTEN FUEL SYSTEMS. 28-36

COLLECTIVE
COMPUTER SIMULATION OF COLLECTIVE ION ACCELERATION BY RELATIVISTIC ELECTRON BEAMS. 10-9

COLLECTIVE ION ACCELERATION VIA THE TWO STREAM INSTABILITY. 20-18

ANALOGS OF THE SILICON -28 COLLECTIVE M1 STATES OBSERVED IN THE SILICON -28 (TRITON,HELIUM -3) ALUMINUM -28 REACTION. 25-9

COLLECTOR
INTEGRATED SOLAR ENERGY COLLECTOR FINAL SUMMARY REPORT. 12-11

PROGRESS REPORT. RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES FOR THE PERIOD JULY 1 TO SEPTEMBER 30, 1974. 12-16

RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES. 12-17

STRUCTURALLY INTEGRATED STEEL SOLAR COLLECTOR DEVELOPMENT. 12-21

DESIGN CONSIDERATIONS OF AIR COOLED COLLECTOR/ROCK-BIN STORAGE SOLAR HEATING SYSTEMS. 12-4

EFFECT OF SECONDARY ELECTRONS ON CHARGE COLLECTOR MEASUREMENT OF A LASER PRODUCED PLASMA. 20-30

COLLIMATOR
MICRO-CHANNEL PLATE AS A PARALLEL BORE COLLIMATOR FOR SOFT X RAY IMAGING. 19-14

COLLIMATORS
INVESTIGATION OF MICRO-CHANNEL PLATES AS PARALLEL BORE ELECTRON COLLIMATORS FOR USE IN A PROXIMITY FOCUSED ULTRA FAST STREAK TUBE. 19-12

MICRO-CHANNEL PLATE COLLIMATORS FOR LASER PLASMA DIAGNOSTICS. 20-93

COLLISION
PARTIAL WAVE EXPANSION OF THE INDUCED COLLISION KERNEL. 18-36

REDUCTION OF SINGULAR COLLISION INTEGRALS IN PERTURBATION THEORY 27-14

COLLISIONAL
COLLISIONAL DAMPING OF LANGMUIR WAVES IN ONE DIMENSIONAL PLASMA SIMULATIONS. 20-19

COLLISIONLESS
DESCRIPTION OF COLLISIONLESS PLASMAS BY CLASSICAL FIELD EQUATIONS. 10-17

COLLISIONS
ELECTRON TRANSFER IN COLLISIONS BETWEEN ATOMIC IONS AND RARE GAS ATOMS. 4-17

R-MATRIX THEORY FOR ELECTRON - ATOM AND ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS. 4-52

R-MATRIX THEORY FOR ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS. 2. ELECTRON - HYDROGEN(2) SCATTERING IN THE STATIC EXCHANGE MODEL. 4-53

COLLISIONS OF NEON*(3S) AND NEON(+) WITH NEON. EXCITATION AND CHARGE TRANSFER, ELASTIC SCATTERING, AND DIFFUSION. 4-9

PION PRODUCTION IN NUCLEON - NUCLEON COLLISIONS. 25-172

RELATIVISTIC HYDRODYNAMIC THEORY OF HEAVY ION COLLISIONS. 25-195

STATICS AND DYNAMICS OF HEAVY ION COLLISIONS. 25-210

ENERGY AND ANGULAR DISTRIBUTION OF NEUTRONS PRODUCED BY 800 MEV PROTON -PROTON COLLISIONS. 25-64

ESTIMATES OF CLUSTER SIZE IN HIGH ENERGY HADRON COLLISIONS. 25-69

COLLOCATION
EXTRAPOLATED COLLOCATION FOR TWO POINT BOUNDARY VALUE PROBLEMS USING CUBIC SPLINES. 21-33

COLORS
THEORETICAL COLORS FOR CEPHEIDS WITH TRANSFER EFFECTS NOW EVIDENT IN THEIR LIGHT CURVES. 3-45

COLUMN
SYNCHROTRON RADIATION SPECTRUM FOR A RELATIVISTIC PLASMA COLUMN. 10-143

MOTION OF A PLASMA COLUMN IN A PERTURBING MAGNETIC FIELD. 10-82

COLUMNS
THERMAL CONDUCTION ALONG STRAIGHT THETA PINCHES AND PLASMA COLUMNS. 10-145

COMBINATIONS
CHEMICAL METHODS FOR PREPARATION OF COMBINATIONS OF MOLYBDENUM, TUNGSTEN, AND URANIUM OXIDES. 23-4

COMBINED
DETERMINATION OF COMBINED SULFUR IN NUCLEAR REACTOR FUEL MATERIALS. 2-8

COMPARISON OF THE COMBINED PHASE SPACE TRAJECTORY AND QUASICLASSICAL TRAJECTORY METHODS IN THE STUDY OF REACTION DYANMICS: HYDROGEN + IODINE(2) AND HYDROGEN + BROMINE(2). 6-4

COMBUSTION
HEAT OF COMBUSTION OF DELTA PLUTONIUM. 23-24

COMMENTARY
METRICATION: INTRODUCTION AND COMMENTARY. 30-48

COMMITTEE
REPORT OF THE AD HOC COMMITTEE ON FUSION PLASMA RESEARCH FACILITIES. 10-112

LOS ALAMOS PRESENTATION ON LASER FUSION TO THE JOINT COMMITTEE ON ATOMIC ENERGY, WASHINGTON, DC, MARCH 13, 1975. 20-86

COMMUNICATION
NOISE IMMUNITY IN DIGITAL COMMUNICATION BY USE OF ORTHOGONAL SIGNAL CORRELATION AND WALSH FUNCTIONS. 19-15

COMMUNITY
IMPLICATIONS TO THE CTR COMMUNITY OF STANDARDIZATION IN NUCLEAR ANALYSIS CODES. 10-54

COMPARATIVE
SOME OBSERVATIONS ON THE COMPARATIVE EFFECTS OF INBREEDING AND WHOLE BODY X RAY EXPOSURE TO SEVENTY GENERATIONS OF MICE. 5-134

COMPARATIVE EFFECTS OF THREE NITROSUREA DERIVATIVES ON MAMMALIAN CELL CYCLE PROGRESSION. 5-42

COMPARATIVE METABOLISM OF RADIONUCLIDES IN MAMMALS. 9. RETENTION OF SELENIUM -75 IN THE MOUSE, RAT, MONKEY, AND DOG. 5-43

INITIAL COMPARATIVE RESPONSE OF EXPERIMENTAL TUMORS TO PEAK PIONS AND X RAYS. 5-81

COMPARING
COMPARING CERTAIN CLASSES OF DIFFERENCE AND FINITE ELEMENT SCHEMES FOR A HYPERBOLIC PROBLEM. 21-17

COMPARISON
COMPARISON OF THE LANGER, ROSEN, NOLAN-POLLAK, AND SANDS CONDENSATION NUCLEUS COUNTERS. 1-1

COMPARISON OF LOCKHEED AND AFWL BASED ABSORPTION COEFFICIENTS FOR AIR. 4-10

HIGH ALTITUDE LOSS CONE AND CHARGE EXCHANGE CALCULATIONS, AND COMPARISON WITH STARFISH DATA. 4-26

COMPARISON OF THE COMBINED PHASE SPACE TRAJECTORY AND QUASICLASSICAL TRAJECTORY METHODS IN THE STUDY OF REACTION DYANMICS: HYDROGEN + IODINE(2) AND HYDROGEN + BROMINE(2). 6-4

COMPARISON OF THREE TWO DIMENSIONAL ELECTROSTATIC PLASMA SIMULATION MODELS. 10-8

NUMERICAL COMPARISON OF INTEGRAL EQUATIONS OF THE FIRST AND SECOND KIND FOR CONFORMAL MAPPING. 21-54

COMPARISON OF (TRITON,HELIUM -3), (HELIUM -3,TRITON) AND (HELIUM -3,PROTON) REACTIONS OF F-P SHELL NUCLEI. 25-32

COMPARISON OF COPPER AND GOLD ORE RESPONSES TO NEUTRON CAPTURE AND DECAY GAMMA RAY TECHNIQUES WITH CALIFORNIUM -252. 25-33

PRELIMINARY TOPICAL REPORT ON COMPARISON REACTOR DISASSEMBLY CALCULATIONS. 28-29

COMPARISON OF U.S. - ALLIED AND SOVIET TACTICAL NUCLEAR FORCE CAPABILITIES AND POLICIES. 30-12

COMPARISONS
LOW ALTITUDE FIREBALL CALCULATIONS. 1. COMPARISONS WITH DATA FOR DOMINIC EVENTS. 18-23

COMPATIBILITY
COMPATIBILITY OF CONTAINER MATERIALS WITH PLUTONIUM DIOXIDE. 23-7

COMPATIBLE
COARSE MESH REBALANCE METHODS COMPATIBLE WITH THE SPHERICAL HARMONIC FICTITIOUS SOURCE IN NEUTRON TRANSPORT CALCULATIONS. 24-6

COMPENSATING
DRIFT COMPENSATING INTEGRATOR FOR MEASUREMENT OF TRANSIENT ATOMIC ABSORPTION SIGNALS. 2-13

COMPILATION
COMPILATION OF SPECTROSCOPIC OBSERVATION OF AIR AROUND ATOMIC BOMB EXPLOSIONS. 30-13

COMPLEX
COMPLEX CARBOHYDRATES OF A DETACHMENT VARIANT SUBLINE OF CHO CELLS. 5-44

SOME OBSERVATIONS OF LOCAL WIND INTERACTIONS IN COMPLEX TERRAIN. 11-55

FAST PION INDUCED PROCESSES IN COMPLEX NUCLEI: CROSS SECTION AND ALPHA REMOVAL. 25-79

COMPLEXES
CARBON DISULFIDE INSERTION REACTIONS WITH COPPER(I) MERCAPTIDE COMPLEXES. 7-1

REVERSIBLE SULFUR DIOXIDE ADDITION TO COPPER(I) PHOSPHINE COMPLEXES. 7-17

HYDRATION ENERGIES AND SPECIFIC INFLUENCE OF OXO COMPLEXES AND HIGH COORDINATION NUMBERS ON THE PREDICTED CHEMISTRY OF SUPERHEAVY ELEMENTS. 7-9

INTERACTIONS OF SMALL MOLECULES WITH COPPER(I) PHOSPHINE COMPLEXES. 9-12

INTERACTIONS OF SULFUR CONTAINING SMALL MOLECULES WITH ORGANOPHOSPHINE COPPER(I) COMPLEXES. 9-13

COMPLEXITY
NOTION OF COMPLEXITY. 21-53

COMPONENT
INVESTIGATION OF THE TWO COMPONENT RADIATION INJURY CONCEPT USING EQUIVALENT RESIDUAL DOSE FACTORS. 5-83

ENERGY SPECTRUM OF INJECTED FUSSILE IONS IN TWO COMPONENT FUSION SYSTEMS. 10-29

COMPONENTS
HOLOGRAPHY APPLIED TO STRUCTURAL COMPONENTS. 19-8

COMPOSITE
HEAT TRANSFER MODEL FOR COMPOSITE FIRST WALL MATERIALS IN A PULSED HIGH BETA CONTROLLED THERMONUCLEAR REACTOR (CTR). 10-46

COMPOSITES
NEUTRON IRRADIATION OF NIOBIUM(3)TIN AND NIOBIUM - TITANIUM MULTIFILAMENTARY COMPOSITES. 8-30

NEUTRON IRRADIATION OF NIOBIUM(3)TIN AND NIOBIUM - TITANIUM MULTIFILAMENTARY COMPOSITES. 8-31

PROGRESS REPORT. RESEARCH ON CARBON -ALUMINUM COMPOSITES AUGUST 1 - DECEMBER 31, 1974. 22-43

HIGH DENSITY METALS AND METALLIC COMPOSITES FOR IMPROVED FRAGMENTATION SUBMUNITIONS. 23-27

MATRIX MOTION OF LOW VOLUME MATRIX TUNGSTEN/NICKEL/IRON COMPOSITES SINTERED IN A TEMPERATURE GRADIENT. 23-37

PROCESS FOR IMPROVING THE LOW TEMPERATURE DUCTILITY OF TUNGSTEN BASE COMPOSITES. 23-46

PROGRESS REPORT. RESEARCH ON CARBON -ALUMINUM COMPOSITES, SEPTEMBER 1, 1973-JANUARY 31, 1974. 23-47

RESEARCH AND DEVELOPMENT ON GRAPHITE AND GRAPHITE MATRIX COMPOSITES AT LASL. 23-49

RESEARCH ON CARBON - ALUMINUM COMPOSITES, JANUARY 1 - JUNE 30, 1975. 23-50

CONTROLLED POROSITY FILTER AND UNIFORM STRUCTURE COMPOSITES. 23-8

COMPOSITION
ADDITIONAL NOTE ON THE ISOTOPIC COMPOSITION OF STRONTIUM IN MCCARTYS FLOW, VALENCIA COUNTY, NEW MEXICO. 11-1

BHABHA FIRST ORDER WAVE EQUATIONS. 2. MASS AND SPIN COMPOSITION, HAMILTONIANS, AND GENERAL SAKATA-TAKETANI REDUCTIONS. 25-21

ON LINE MEASUREMENT OF THE ISOTOPIC COMPOSITION OF URANIUM IN URANIUM HEXAFLUORIDE. 26-20

COMPOSITIONAL
COMPOSITIONAL AND FUNCTIONAL RELATIONSHIP OF SUBRIBOSOMAL PARTICLES TO RIBOSOMES AND POLYSOMES. 5-45

COMPOUNDS
MASS SPECTRAL INTENSITIES OF INORGANIC FLUORINE CONTAINING COMPOUNDS. 6-10

REDUCTIVE SYNTHESES OF TRANSITION METAL FLUORIDE COMPOUNDS. THE SYNTHESIS OF RHENIUM, OSMIUM AND IRIDIUM PENTAFLUORIDES AND TETRAFLUORIDES. 7-16

THERMODYNAMIC PROPERTIES OF THE BINARY LAVES PHASE COMPOUNDS OF PLUTONIUM WITH THE GROUP VIIIA METALS. 7-23

OPTICAL AND MORPHOLOGICAL CRYSTALLOGRAPHY OF PLUTONIUM COMPOUNDS. 9-16

BOND LENGTHS AND BOND STRENGTHS IN COMPOUNDS OF THE 5F ELEMENTS. 9-4

PERSONAL AIR SAMPLING FOR VAPORS OF ANILINE COMPOUNDS. 17-39

EFFECT OF PRESSURE ON CURIE TEMPERATURE OF URANIUM (FE1-XMNX)2 COMPOUNDS. 23-12

SOLID STATE PROPERTIES OF FLUORIDE CONTAINING COMPOUNDS OF 5F ELEMENTS. 29-5

CARBON -13 LABELLED COMPOUNDS. 30-8

COMPRESSION
COMPRESSION AND BONDING OF ICE VII AND AN EMPIRICAL LINEAR EXPRESSION FOR THE ISOTHERMAL COMPRESSION OF SOLIDS. 4-11

COMPRESSION AND BONDING OF ICE VII AND AN EMPIRICAL LINEAR EXPRESSION FOR THE ISOTHERMAL COMPRESSION OF SOLIDS. 4-11

ENERGY STORAGE, COMPRESSION, AND SWITCHING IN A THETA PINCH FUSION TEST REACTOR. 10-30

ISOTHERMAL LINEAR AND VOLUME COMPRESSION OF PENTAERYTHRITOL TETRANITRATE (PETN) TO 10 GPA (100 KBAR) AND THE CALCULATED SHOCK COMPRESSION. 15-16

ISOTHERMAL LINEAR AND VOLUME COMPRESSION OF PENTAERYTHRITOL TETRANITRATE (PETN) TO 10 GPA (100 KBAR) AND THE CALCULATED SHOCK COMPRESSION. 15-16

SHOCK COMPRESSION AND INITIATION OF POROUS PETN. 16-25

SHOCK COMPRESSION OF LIQUID AMMONIA. 18-42

PULSE COMPRESSION FOR MORE EFFICIENT OPERATION OF SOLID STATE LASER AMPLIFIER CHAINS. 2. 20-122

DISPERSIVE TEMPORAL COMPRESSION OF THE ENERGY IN LASER PULSES: A REVIEW 20-28

MULTILINE SHORT PULSE AMPLIFICATION AND COMPRESSION IN HIGH GAIN CARBON DIOXIDE LASER AMPLIFIER. 20-99

RESPONSE OF IRON TO DYNAMIC COMPRESSION. 23-51

INTRODUCTION TO EXPLOSIVE MAGNETIC FLUX COMPRESSION GENERATORS. 27-8

COMPRESSIONS
GENERATION OF LASER PULSES FOR OPTIMUM ABLATIVE COMPRESSIONS. 20-47

COMPTON
HARTREE-FOCK COMPTON PROFILES FOR THE ELEMENTS. 4-25

RELATIVISTIC HARTREE-FOCK COMPTON PROFILES FOR THE RARE GASES AND LEAD 4-56

INVARIANT COMPTON KERNELS FOR RADIATION TRANSPORT. 18-20

RELATIVISTIC COMPTON SCATTERING FROM MOVING ELECTRONS AND ANGULAR MOMENTS. 18-40

COMPUTATION
FAST MOLECULAR TRAJECTORY CALCULATIONS BY HYBRID COMPUTATION: A FEASIBILITY STUDY 6-8

SYMBOLIC COMPUTATION IN CONTROLLED THERMONUCLEAR RESEARCH. 10-142

COMPUTATIONAL
U.S. THEORETICAL AND COMPUTATIONAL PROGRAM: TRANSPORT THEORY. 24-21

COMPUTATIONS
CHEMISTRY COMPUTATIONS FOR IRRADIATED HOT AIR. 6-3

COMPUTER
COMPUTER MODELING OF NEUTRON DOSE AT VARIOUS LOCATIONS WITHIN THE BODY DURING PION RADIOTHERAPY. 5-46

COMPUTER SIMULATION OF COLLECTIVE ION ACCELERATION BY RELATIVISTIC ELECTRON BEAMS 10-9

PLANE SHOCK INITIATION OF DETONATION: COMPUTER SIMULATION OF GAS GUN EXPERIMENT 15-20

RICE. A COMPUTER PROGRAM FOR MULTICOMPONENT CHEMICALLY REACTIVE FLOWS AT ALL SPEEDS. 18-41

THREE DIMENSIONAL COMPUTER ANALYSIS OF SHOCK LOADS ON A SIMPLE STRUCTURE. 18-49

COMPUTER STUDIES ON FLUID SYSTEMS OF HARD CORE PARTICLES. 18-5

NEW COMPUTER TECHNIQUE FOR NONLINEAR OPTICAL PROBLEMS. 20-101

COMPUTER SIMULATION OF A DEUTERIUM -TRITIUM PELLET MICROEXPLOSION IN A MAGNETICALLY PROTECTED LASER FUSION REACTOR 20-20

COMPUTER AIDED DESIGN OF ELECTRONIC CIRCUITRY 21-18

COMPUTER GRAPHICS 118 COMPUTER GENERATED DESIGNS. 21-19

COMPUTER GRAPHICS 118 COMPUTER GENERATED DESIGNS. 21-19

COMPUTER HOLOGRAMS REVISITED. 21-20

COMPUTER SCIENCE AND SERVICES DIVISION OF THE LOS ALAMOS SCIENTIFIC LABORATORY. 21-21

EXPLOITING VECTOR MODE IN A SISD COMPUTER. 21-32

FTRCOL. A COMPUTER CODE TO GROUP COLLAPSE FTR FILES AND OUTPUT STANDARD CCCC INTERFACE FILES. 21-34

GENERAL PURPOSE COMPUTER PROGRAM FOR MANIPULATING AND ANALYZING TABULAR DATA. 21-37

HYBRID COMPUTER SIMULATION OF TRANSMISSION LINE CIRCUITS. 21-39

ANALOG COMPUTER FOR CALCULATING THE SHUNT IMPEDANCE OF A RESONANT CAVITY 21-4

OPTION. A COMPUTER CODE TO SOLVE STEADY STATE FLUID THERMAL ENGINEERING PROBLEMS 21-62

SCAN AND DISPLAY CONSIDERATIONS IN PROCESSING IMAGES BY DIGITAL COMPUTER 21-71

SYNTHESIS OF HOLOGRAMS FOR COMPUTER GENERATED OUTPUT. 21-79

SYNTHESIS OF HOLOGRAMS FROM COMPUTER GENERATED OUTPUT. 21-80

THREE DIMENSIONAL MESH GENERATOR FOR FINITE ELEMENT COMPUTER CODES. 21-81

PHONEX. A COMPUTER PROGRAM TO CALCULATE PHOTONEUTRON SPECTRA. 25-159

PINTEMP: A COMPUTER PROGRAM FOR FUEL ELEMENT DESIGN CALCULATIONS. 28-25

COMPUTERIZED
COMPUTERIZED IMAGE ANALYSIS AT THE LOS ALAMOS SCIENTIFIC LABORATORY. 21-22

COMPUTERIZED INVENTORY/DESIGN SYSTEM FOR GRAPHITE MOLDS. 21-23

COMPUTERS
ASM80: A CDC 7600 MACRO CROSS ASSEMBLER FOR HI-15 AND D.E.C. PDP-9 AND PDP-15 COMPUTERS. 21-9

COMPUTING
CALCULATING THREE DIMENSIONAL FLUID FLOWS AT ALL SPEEDS WITH AN EULERIAN-LAGRANGIAN COMPUTING MESH. 18-3

CENTRAL COMPUTING FACILITY PLANNING STUDY: TECHNICAL OVERVIEW. 21-16

COMPUTING AT LASL: PERSPECTIVES, POLICIES, AND PLANS. 21-24

COMPUTING FACILITIES AT LOS ALAMOS SCIENTIFIC LABORATORY. 21-25

CONCENTRATION
ENERGY TRANSFER IN PHOTOSYNTHESIS: PIGMENT CONCENTRATION EFFECTS AND FLUORESCENT LIFETIMES. 5-58

CONCENTRATIONS
PLUTONIUM, AMERICIUM AND URANIUM CONCENTRATIONS IN NEVADA TEST SITE SOIL PROFILES. 17-43

CONCEPT
INVESTIGATION OF THE TWO COMPONENT RADIATION INJURY CONCEPT USING EQUIVALENT RESIDUAL DOSE FACTORS. 5-83

LASER FUSION: A NEW THERMONUCLEAR POWER CONCEPT. 20-73

CONCEPTS
ENGINEERING CONCEPTS FOR LASER FUSION REACTOR APPLICATIONS. 20-39

CONCEPTUAL
CONCEPTUAL DESIGN OF A THETA PINCH POWER PLANT. 19-2

CONCEPTUAL DESIGN FOR A FAST REACTOR SAFETY TEST FACILITY. PRELIMINARY REPORT. 28-7

CONCERNS
CONCERNS OF INTERVENORS IN NUCLEAR POWER PLANT LICENSING HEARINGS. 30-14

CONCRETE
PRESTRESSED CONCRETE REACTOR VESSELS: REVIEW OF DESIGN AND FAILURE CRITERIA. 28-30

CONDENSATION
COMPARISON OF THE LANGER, ROSEN, NOLAN-POLLAK, AND SANDS CONDENSATION NUCLEUS COUNTERS. 1-1

THRESHOLD OF PION CONDENSATION. 25-222

CHIRAL SYMMETRY AND PION CONDENSATION. 1. MODEL DEPENDENT RESULTS. 25-29

CHIRAL SYMMETRY AND PION CONDENSATION. 2. GENERAL FORMALISM. 25-30

LIFETIME, SURFACE TENSION, AND IMPURITY EFFECTS IN ELECTRON HOLE CONDENSATION. 27-10

TIME DEPENDENT BEHAVIOR IN ELECTRON HOLE CONDENSATION. 27-18

LIFETIME, SURFACE TENSION, AND IMPURITY EFFECTS IN ELECTRON HOLE CONDENSATION. 27-9

CONDENSED
EXPERIMENTAL SEARCH FOR CONDENSED NUCLEAR STATES. 25-75

CONDENSER
JULY 16TH NUCLEAR EXPLOSION. BLAST MEASUREMENTS WITH CONDENSER GAUGES 30-35

CONDUCTION
THERMAL CONDUCTION ALONG STRAIGHT THETA PINCHES AND PLASMA COLUMNS. 10-145

CURRENT DRIVEN INSTABILITIES IN THE PRESENCE OF HEAT CONDUCTION. 10-16

INDICATIONS OF STRONGLY FLUX LIMITED ELECTRON THERMAL CONDUCTION IN LASER TARGET EXPERIMENTS. 20-55

MODEL FOR HEAT CONDUCTION WITH FINITE SIGNAL SPEED. 27-11

CONDUCTIVITY
PHONON THERMAL CONDUCTIVITY OF SUPERCONDUCTING LEAD - THALLIUM ALLOYS. 8-35

CONDUCTOR
LASL NIOBIUM3GERMANIUM CONDUCTOR DEVELOPMENT, AUGUST 1 - OCTOBER 31, 1975. 8-23

LASL NIOBIUM3GERMANIUM CONDUCTOR DEVELOPMENT, MAY 1 - JULY 31, 1975 8-24

ADJACENT CONDUCTOR FIELD CORRECTIONS TO HIGH CRITICAL CURRENT SHORT SAMPLE MEASUREMENTS. 8-3

CONDUCTORS
INVESTIGATIONS ON POTENTIAL CONDUCTORS FOR A DC SUPERCONDUCTING POWER TRANSMISSION LINE IN A 20 METER TEST BED. 8-21

CONE
HIGH ALTITUDE LOSS CONE AND CHARGE EXCHANGE CALCULATIONS, AND COMPARISON WITH STARFISH DATA. 4-26

CINDER CONE SEPARATION DISTANCES: IMPLICATIONS FOR THE DEPTH OF FORMATION OF GABBROIC XENOLITHS. 11-8

CONFERENCE
CONTROLLED FUSION RESEARCH: HIGHLIGHTS OF THE TOKYO IAEA CONFERENCE AND SUBSEQUENT DEVELOPMENTS. 10-11

NUMERICAL METHODS IN FLUID DYNAMICS. 1974. 4TH INTERNATIONAL CONFERENCE, BOULDER. PROCEEDINGS, LECTURE NOTES IN PHYSICS, V.35. 18-32

HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS. 25-94

CONFIGURATION
CONFIGURATION INTERACTION STUDIES OF OZONE AND OZONE POSITIVE ION GROUND AND EXCITED STATES. 4-12

STABILITY OF A CLOSED LINE SCYLLAC CONFIGURATION. 10-132

STABILITY OF THE REVERSED FIELD PINCH CONFIGURATION TO LOCALIZED PERTURBATIONS. 10-136

MHD STABILITY OF THE SCYLLAC CONFIGURATION. 10-81

CONFIGURATIONS
ELECTRON CONFIGURATIONS AND BONDING IN THE EARLY ACTINIDE METALS. 4-15

MONTE CARLO STUDIES OF TARGET/MODERATOR CONFIGURATIONS FOR THE WEAPONS NEUTRON RESEARCH FACILITY. 25-121

CONFINEMENT
CONFINEMENT FACILITIES FOR HANDLING PLUTONIUM. 17-5

CONFOCAL
OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 3. ASYMMETRIC CONFOCAL RESONATOR. 20-109

CONFORMAL
NUMERICAL COMPARISON OF INTEGRAL EQUATIONS OF THE FIRST AND SECOND KIND FOR CONFORMAL MAPPING. 21-54

CONFORMATION
CONFORMATION OF POLY D(A-A-T)-D(A-T-T). 5-47

CONNECTED
SUPERFLUID FLOW THROUGH MULTIPLY CONNECTED GEOMETRIES. 8-51

CONSEQUENCES
CONSEQUENCES OF COUPLING COEFFICIENT SATURATION ON THE NONLINEAR BEHAVIOR OF DECAY INSTABILITIES. 10-10

CALCULATED CONSEQUENCES OF SODIUM BOND LOSS FROM ADVANCED FUEL ELEMENTS 28-4

CONSEQUENCES OF SODIUM BOND LOSS FROM AN LMFBR (LIQUID METAL FUELED BREEDER REACTOR) CARBIDE FUEL ELEMENT. 28-8

CONSERVATION
NUMERICAL METHODS FOR CONSERVATION LAWS. 21-56

TESTS OF PARITY CONSERVATION IN PROTON -PROTON AND PROTON - NUCLEUS SCATTERING. 25-218

PROPOSED FEDERAL HELIUM CONSERVATION POLICY AS RELATED TO THE HELIUM DEMANDS OF ENERGY RELATED NEW TECHNOLOGIES. 30-67

CONSERVING
PARITY VIOLATING ASYMMETRY IN NEUTRON PHOTO CAPTURE BY PROTONS AND THE ISOSPIN STRUCTURE OF THE STRANGENESS CONSERVING NONLEPTONIC WEAK INTERACTIONS. 25-155

IMPLICATIONS OF PARITY VIOLATING EFFECTS IN STRANGENESS CONSERVING NONLEPTONIC PROCESSES. 25-96

CONSIDERATIONS
DESIGN CONSIDERATIONS OF AIR COOLED COLLECTOR/ROCK-BIN STORAGE SOLAR HEATING SYSTEMS. 12-4

ECOLOGICAL CONSIDERATIONS OF THE BEHAVIOR OF PLUTONIUM IN THE ENVIRONMENT. 17-16

SAFETY CONSIDERATIONS IN THE LASER RESEARCH PROGRAM AT THE LOS ALAMOS SCIENTIFIC LABORATORY. 17-51

WASTE MANAGEMENT AND SAFETY CONSIDERATIONS FOR FUTURE LASL D+D (DECONTAMINATION AND DECOMMISSIONING) PROJECTS. 17-62

SCAN AND DISPLAY CONSIDERATIONS IN PROCESSING IMAGES BY DIGITAL COMPUTER. 21-71

FURTHER CONSIDERATIONS ON THE LOF-DRIVEN TOP ACCIDENT FOR LMFBRS. 28-15

CONSISTENCY
CONSISTENCY AMONG DIFFERENTIAL NUCLEAR DATA AND INTEGRAL OBSERVATIONS: THE ALVIN CODE FOR DATA ADJUSTMENT, FOR SENSITIVITY CALCULATIONS, AND FOR IDENTIFICATION OF INCONSISTENT DATA. 25-36

CONSISTENT
SELF CONSISTENT FIELD CALCULATION OF THE ELECTRONIC STRUCTURE OF THE URANYL ION. 4-59

SELF CONSISTENT PHONON CALCULATIONS AND EQUATIONS OF STATE OF SOLID HYDROGEN AND DEUTERIUM. 4-60

STATIONARY NON-EQUILIBRIUM PROPERTIES OF A QUANTUM MECHANICAL LATTICE WITH SELF CONSISTENT RESERVOIRS. 27-16

STATIONARY NONEQUILIBRIUM PROPERTIES OF A QUANTUM MECHANICAL LATTICE WITH SELF CONSISTENT RESERVOIRS. 27-17

DISORDERED HARMONIC CHAIN WITH SELF CONSISTENT RESERVOIRS. 27-6

CONSTANCY
CHROMOSOME G-BANDING AND DNA CONSTANCY IN ANEUPLOID CELL POPULATIONS. 5-39

DNA CONSTANCY IN HETEROPLOIDY AND THE STEM LINE THEORY OF TUMORS. 5-56

CONSTANTS
POTENTIAL CONSTANTS OF POTASSIUM ZINC TETRACYANIDE IN THE CRYSTAL LATTICE. 4-50

EFFECT OF REAGENT VIBRATIONAL ENERGY ON MEASURED REACTION RATE CONSTANTS. 6-7

RADIATION EFFECTS ON THE LATTICE CONSTANTS OF SINGLE CRYSTAL ALUMINUM DIOXIDE. 9-19

ELASTIC CONSTANTS AND SOUND VELOCITIES. 4. THE ELASTIC CONSTANTS OF PLUTONIUM. 23-18

ELASTIC CONSTANTS AND SOUND VELOCITIES. 4. THE ELASTIC CONSTANTS OF PLUTONIUM. 23-16

CONSTITUENTS
CHEMICAL ANALYSIS OF NUCLEAR FUELS FOR MAJOR CONSTITUENTS. 2-4

CONSTRAINTS
STRUCTURAL ENDURANCE CONSTRAINTS FOR HIGH FIELD THETA PINCH COILS, COILS. 10-140

CONSTRAINTS ON WAVE FUNCTION MODELS OF THE NUCLEON - NUCLEON T MATRIX. 25-37

CONSTRICTED
NUMERICAL STUDY OF PULSATILE FLOW THROUGH CONSTRICTED ARTERIES. 5-107

CONSTRUCTED
DESIGN STUDIES OF HEAVY ION LINEAR ACCELERATORS CONSTRUCTED OF INDEPENDENTLY PHASED SPIRAL RESONATORS. 27-3

CONSTRUCTION
PROPOSAL FOR THE CONSTRUCTION OF THE STAGED SCYLLAC PROTOTYPE. 10-108

CONSTRUCTIVE
CANONICAL RESOLUTION OF THE MULTIPLICITY PROBLEM FOR U(3): AN EXPLICIT AND COMPLETE CONSTRUCTIVE SOLUTION. 21-15

CONSUMPTION
CESIUM KINETICS DATA FOR ESTIMATING FOOD CONSUMPTION RATES OF TROUT. 5-34

WORLD ENERGY RESERVES AND CONSUMPTION. 12-22

CONTACT
CONTACT ELECTRICAL METHOD OF STUDYING IMPLOSION. 15-2

CONTAINER
EVACUATED REFRIGERANT CONTAINER AS A SOURCE OF VACUUM FOR AIR SAMPLING. 17-26

COMPATIBILITY OF CONTAINER MATERIALS WITH PLUTONIUM DIOXIDE. 23-7

CONTAINMENT
TRITIUM CONTAINMENT AFTER BURIAL OF CONTAMINATED SOLID WASTE. 30-93

CONTAMINANTS
CHEMICAL EQUILIBRIA IN HOT AIR WITH MOISTURE, SALT, AND VAPORIZED METAL CONTAMINANTS. 7-2

MODEL FOR PREDICTING THE REDISTRIBUTION OF PARTICULATE CONTAMINANTS FROM SOIL SURFACES. 11-30

CONTAMINATED
CURRENT STATUS OF INFORMATION OBTAINED FROM PLUTONIUM CONTAMINATED PEOPLE. 5-48

DISPOSITION OF TA-33-21, A PLUTONIUM CONTAMINATED EXPERIMENTAL FACILITY. 17-15

DESIGN CRITERIA (REVISED) FOR TRANSURANIC CONTAMINATED SOLID WASTE TREATMENT DEVELOPMENT FACILITY. 30-18

TRITIUM CONTAINMENT AFTER BURIAL OF CONTAMINATED SOLID WASTE. 30-93

CONTAMINATION
MAGMA CONTAMINATION WITHIN THE VOLCANIC PILE: ORIGIN OF ANDESITE AND DACITE: COMMENT AND REPLY. 11-26

CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY, JULY - DECEMBER 1974. 17-6

CONTENT
CELLULAR DNA CONTENT AND CHROMOSOME NUMBER IN HETEROPLOID CELL POPULATIONS. 5-31

CONTINUED
CONTINUED FRACTION EXPANSION OF ALGEBRAIC NUMBERS. 21-26

CONTINUOUS
CONTINUOUS INVENTORY IN SNM STORAGE FACILITIES. 26-4

CONTINUOUS INVENTORY IN SNM STORAGE FACILITIES. 26-5

CONTINUUM
X RAY CONTINUUM AND LINE RADIATION FROM PLASMAS PRODUCED BY 10.6 MICROMETER LASER FOCUSED ON FLAT TARGETS. 20-164

CONTRIBUTED
HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS. 25-94

CONTRIBUTION
ELECTRON BINDING EFFECTS ON SCATTERING CONTRIBUTION TO MONOCHROMATIC AND MEAN OPACITIES. 4-14

CONTROL
CONTROL SYSTEM DESIGN AND SIMULATION FOR A SOLAR HEATED AND COOLED BUILDING. 12-3

ADAPTIVE CONTROL TECHNIQUES FOR ON-AXIS RADARS. 13-1

GRAVITY ASSIST HEAT PIPES FOR THERMAL CONTROL SYSTEMS. 13-7

INCREASING THE RELEVANCE OF DATA PRESENTED TO THE OPERATORS IN AN ACCELERATOR CONTROL SYSTEM. 22-19

OPERATING EXPERIENCE WITH LAMPF MAIN BEAM LINES INSTRUMENTATION AND CONTROL SYSTEM. 22-36

CALIBRATION OF THE BEAM SPILL CONTROL SYSTEM AT LAMPF. 22-7

NONDESTRUCTIVE ASSAY TECHNOLOGY AND IN-PLANT DYNAMIC MATERIALS CONTROL. 26-15

NONDESTRUCTIVE ASSAY TECHNOLOGY AND IN-PLANT MATERIALS CONTROL: DYMAC. 26-16

SYSTEM CONTROL FOR THE MODULATED CALIFORNIUM -252 SOURCE SHUFFLER. 26-27

100 MHZ POWER AMPLIFIER DESIGN AND CONTROL FOR A HEAVY ION ACCELERATOR. 27-1

EUROPIA HEATING IN CONTROL RODS. 28-10

DESIGN FOR A ROTARY REACTIVITY CONTROL FOR A TEST REACTOR. 28-9

CONTROLLED
OXYGEN POTENTIAL OF URANIUM - PLUTONIUM OXIDE AS DETERMINED BY CONTROLLED ATMOSPHERE THERMOGRAVIMETRY. 2-19

CONTROLLED FUSION RESEARCH: HIGHLIGHTS OF THE TOKYO IAEA CONFERENCE AND SUBSEQUENT DEVELOPMENTS. 10-11

CONTROLLED THERMONUCLEAR RESEARCH AT THE LOS ALAMOS SCIENTIFIC LABORATORY. 10-12

SYMBOLIC COMPUTATION IN CONTROLLED THERMONUCLEAR RESEARCH. 10-142

XPECT. A MONTE CARLO PROGRAM TO PREDICT THE EXPECTED TIME TO NEXT FAILURE IN CONTROLLED THERMONUCLEAR RESEARCH SYSTEMS. 10-156

HEAT TRANSFER MODEL FOR COMPOSITE FIRST WALL MATERIALS IN A PULSED HIGH BETA CONTROLLED THERMONUCLEAR REACTOR (CTR). 10-46

CAPACITOR REQUIREMENTS FOR CONTROLLED THERMONUCLEAR EXPERIMENTS AND REACTORS. 10-5

LASL CONTROLLED THERMONUCLEAR RESEARCH PROGRAM, JANUARY - DECEMBER 1974. 10-70

CONTROLLED POROSITY FILTER AND UNIFORM STRUCTURE COMPOSITES. 23-8

CONTROLS
DESIGN OF CONTROLS FOR A SOLAR HEATED BUILDING. 12-5

CONVECTION
GRADIENTS OF SOLAR PROTONS IN THE HIGH LATITUDE MAGNETOTAIL AND THE CONVECTION ELECTRIC FIELD. 1-11

CONVECTION IN RR LYRAE STARS. 3-9

FORCED CONVECTION HEAT TRANSFER WITH TWO PHASE FLOW. 8-18

CONVENTIONS
BOND GRAPH SIGN CONVENTIONS. 21-13

CONVERGENCE
CONVERGENCE ESTIMATES FOR GALERKIN METHODS FOR VARIABLE COEFFICIENT INITIAL VALUE PROBLEMS. 21-27

CONVERGENT
EFFECT OF VARIABLE ENTROPY IN THE THEORY OF SPHERICALLY CONVERGENT DETONATION WAVES. 15-8

CONVERGING
NONSTEADY STATE DETONATIONS IN ONE DIMENSIONAL PLANE, DIVERGING, AND CONVERGING GEOMETRIES. 15-18

CONVERSION
CONVERSION OF PARA TO ORTHOHYDROGEN IN A GAMMA RAY AND NEUTRON RADIATION FIELD. 8-7

OPTICAL METHODS IN ENERGY CONVERSION, SPIE SEMINAR IN DEPTH, ROCHESTER, 23-25 JUNE 1975. 20-110

ON-LINE INTERNAL CONVERSION COEFFICIENTS FOR THE DECAYS OF MASS SEPARATED KRYPTON -91 AND RUBIDIUM -91. 25-149

CONVERSIONS
DISCRETE ORDINATE TO SPHERICAL HARMONIC CONVERSIONS FOR RAY EFFECT MITIGATION IN X-Y GEOMETRY. 24-9

CONVERTER
SURVEY OF THE STATE OF THE ART OF FAST SINGLE TRANSIENT ANALOG TO DIGITAL CONVERTER TECHNIQUES. 21-78

CONVERTING
PROSPECTS FOR CONVERTING THORIUM -232 TO URANIUM -233 IN A LINEAR THETA PINCH HYBRID REACTOR (LTPHR). 10-109

COOL
SPECTROPHOTOMETRY OF COOL CARBON STARS. 3-41

COOLANT
IODINE -131 RELEASE FROM AN HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) DURING THE LOFC (LOSS OF COOLANT) ACCIDENT. 17-30

COOLED
ANALYSIS OF A SCORPIUS X-1 X RAY SPECTRUM OBTAINED WITH COOLED SILICON (LI) DETECTORS. 3-3

EVIDENCE FOR THE EXISTENCE OF FAULTING IN A SPLAT COOLED DELTA PLUTONIUM(TITANIUM) ALLOY. 9-10

CONTROL SYSTEM DESIGN AND SIMULATION FOR A SOLAR HEATED AND COOLED BUILDING. 12-3

DESIGN CONSIDERATIONS OF AIR COOLED COLLECTOR/ROCK-BIN STORAGE SOLAR HEATING SYSTEMS. 12-4

DYNAMIC SIMULATION OF A SOLAR HEATED AND COOLED BUILDING. 12-7

IODINE -131 RELEASE FROM AN HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) DURING THE LOFC (LOSS OF COOLANT) ACCIDENT. 17-30

NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL RODS. 26-12

IN-PLANT NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL MATERIALS. 26-9

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, JANUARY THROUGH MARCH 1975. 28-18

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, APRIL -JUNE 1975. 28-19

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, JULY -SEPTEMBER 1975. 28-20

MOISTURE DETECTOR FOR THE PRIMARY LOOP OF GAS COOLED REACTORS. 28-23

PROPOSAL FOR ANALYSIS OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) CORE RESPONSE TO SEISMIC INPUT. 28-31

QUARTERLY REPORT, HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, OCTOBER THROUGH DECEMBER 1974. 28-34

COOLING
SILICA IN WATER IN RELATION TO COOLING TOWER OPERATION. 2-26

COOLING TOWER MODIFICATION FOR INTERMITTENT OPERATION. 13-2

SPLAT COOLING OF SOME ACTINIDE ALLOYS. 23-55

COOPERATIVE
COOPERATIVE MOTIONS IN HARD CORE FLUIDS. 18-6

COORDINATE
COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATION FOR THE FULLY OFF SHELL TWO NUCLEON T MATRIX. 25-38

COORDINATION
HYDRATION ENERGIES AND SPECIFIC INFLUENCE OF OXO COMPLEXES AND HIGH COORDINATION NUMBERS ON THE PREDICTED CHEMISTRY OF SUPERHEAVY ELEMENTS. 7-9

COPPER
COPPER MINING AND MILL ANALYSES BY GAMMA RAYS FROM CAPTURE OF CALIFORNIUM -252 NEUTRONS. 2-6

CARBON DISULFIDE INSERTION REACTIONS WITH COPPER(I) MERCAPTIDE COMPLEXES. 7-1

REVERSIBLE SULFUR DIOXIDE ADDITION TO COPPER(I) PHOSPHINE COMPLEXES. 7-17

DI-MU-(PYRIDINE OXIDE)- BIS(DICHLORO (DIMETHYL SULFOXIDE)COPPER(II)). 7-4

INTERACTIONS OF SMALL MOLECULES WITH COPPER(I) PHOSPHINE COMPLEXES. 9-12

INTERACTIONS OF SULFUR CONTAINING SMALL MOLECULES WITH ORGANOPHOSPHINE COPPER(I) COMPLEXES. 9-13

NEUTRON ENERGY DEPENDENCE OF DEFECT PRODUCTION CROSS SECTIONS IN COPPER AND ALUMINUM. 10-84

CALCULATED NEUTRON SPECTRUM FROM 800 MEV PROTONS INCIDENT ON A COPPER BEAM STOP. 22-6

SPALLATION OF COPPER BY 190 MEV PIONS AND 349 MEV PROTONS. 25-207

COMPARISON OF COPPER AND GOLD ORE RESPONSES TO NEUTRON CAPTURE AND DECAY GAMMA RAY TECHNIQUES WITH CALIFORNIUM -252. 25-33

ACTIVATION STUDIES OF PION INDUCED REACTIONS ON CARBON, NITROGEN, OXYGEN, FLUORINE, ALUMINUM AND COPPER. 25-8

COPRECIPITATION
COPRECIPITATION OF URANIUM AND PLUTONIUM OXALATES USING SODIUM FORMALDEHYDE SULFOXYLATE REDUCTION AND DIETHYL OXALATE HYDROLYSIS PRECIPITATION. 2-7

CORE
COMPUTER STUDIES ON FLUID SYSTEMS OF HARD CORE PARTICLES. 18-5

COOPERATIVE MOTIONS IN HARD CORE FLUIDS. 18-6

RESEARCH PROGRAM ON PLASMA CORE ASSEMBLY. 24-19

PROPOSAL FOR ANALYSIS OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) CORE RESPONSE TO SEISMIC INPUT. 28-31

MONTE CARLO CALCULATION OF THE GAMMA RAY HEATING IN A PHOEBUS 1 NOZZLE FROM CORE SOURCES. 30-49

POWER DENSITY ASYMMETRIES IN COUPLED CORE REACTOR SYSTEMS. 30-64

CORES
DUCTILE TO BRITTLE TRANSITION OF URANIUM - 0.75 WT PERCENT TITANIUM PENETRATOR CORES. 23-10

CORONA
ABSOLUTE INTENSITIES OF THE OUTER CORONA FROM THE JUNE 30, 1973 TOTAL SOLAR ECLIPSE. 3-1

EXTENSIVE SPATIAL DISTRIBUTION OF 569.4 NM CALCIUM XV EMISSION IN THE SOLAR CORONA DURING THE ECLIPSE OF 1973. 3-15

SOLAR WIND DEVELOPMENT IN THE MIDDLE CORONA. 3-40

CORONAL
CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES. 1. AIRBORNE INSTRUMENTATION AND RESULTS. 3-10

CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES. 2. 30 MAY 1965 RESULTS, DECONVOLUTION AND INTERPRETATION. 3-11

OBSERVED CORONAL TEMPERATURES AT 1.37 SOLAR RADII IN THE REGION OF A HELMET STRUCTURE. 3-32

CORRECTION
VERSATILE MULTIPOLE CORRECTION MAGNET OF RECTANGULAR APERTURE. 22-55

PHOTON PROPAGATION IN NUCLEAR MATTER AND THE CORRECTION TO THE THEORETICAL NUCLEAR CHARGE DENSITY. 25-164

CORRECTIONS
HIGHER ORDER CORRECTIONS TO ENERGY LEVELS OF MUONIC ATOMS. 4-28

ADJACENT CONDUCTOR FIELD CORRECTIONS TO HIGH CRITICAL CURRENT SHORT SAMPLE MEASUREMENTS. 8-3

DISPERSION CORRECTIONS FOR X RAY ATOMIC SCATTERING FACTORS 9-9

BETA ABSORPTION IN TRITIATED TARGETS AND X RAY COUNTING CORRECTIONS. 20-11

CORRECTIVE
ACTIVE CORRECTIVE ELEMENT FOR HIGH RESOLUTION MAGNETIC OPTICS. 22-2

CORRELATION
ENTROPY CORRELATION FOR THE 4F AND 5F METALS: RELATION OF ELECTRONIC PROPERTIES TO METALLIC RADII, MAGNETIC TRANSFORMATIONS AND THERMODYNAMICS OF VAPORIZATION. 4-21

LACK OF SPECIFIC CORRELATION OF THE DEOXYCYTIDINE TRIPHOSPHATE POOL LEVEL WITH RATE OF DNA SYNTHESIS. 5-91

NOISE IMMUNITY IN DIGITAL COMMUNICATION BY USE OF ORTHOGONAL SIGNAL CORRELATION AND WALSH FUNCTIONS. 19-15

CORRELATIONS
HIGH ANGULAR RESOLUTION SECONDARY ELECTRON SPECTROSCOPY: KIKUCHI CORRELATIONS FOR ARSENIC (0001). 9-11

ROLE OF TWO NUCLEON SHORT RANGE CORRELATIONS IN PION CHARGE EXCHANGE REACTIONS WITH NUCLEI. 25-198

CORROSION
CHEMICAL CORROSION OF MOLYBDENUM AND TUNGSTEN IN LIQUID BASALT, TUFF, AND GRANITE WITH APPLICATION TO SUBTERRENE PENETRATORS. 11-7

LIMITED EVALUATION OF THE CORROSION OF URANIUM AND WEAPON ASSOCIATED METALS IN SUBSTITUTE OCEAN WATER. 23-33

COSMIC
COSMIC GAMMA RAY BURSTS. 3-12

MODEL COSMIC GAMMA RAY BURST. 3-26

OBSERVATIONS OF COSMIC GAMMA RAY BURSTS. 3-30

STUDY OF FAST TIME STRUCTURE WITHIN COSMIC GAMMA RAY BURSTS. 3-32

COST
CHIT: A COST ACCOUNTING PROGRAM FOR POSTIRRADIATION EXAMINATIONS OF FAST BREEDER REACTOR MATERIALS. 2-5

LOS ALAMOS BUILDING COST INDEX. 13-10

COULOMB
COULOMB LOGARITHM CUTOFF. 10-13

CALCULATIONS OF COULOMB ENERGIES FOR UNIFORM CHARGE DISTRIBUTIONS OF ARBITRARY SHAPE. 24-2

COUNTERS
COMPARISON OF THE LANGER, ROSEN, NOLAN-POLLAK, AND SANDS CONDENSATION NUCLEUS COUNTERS. 1-1

EFFICIENCY AND POSITION RESOLUTION OF TWO DIMENSIONAL POSITION SENSITIVE MULTIWIRE PROPORTION COUNTERS. 22-12

COUNTING
CALIBRATION STANDARDS FOR COUNTING ASBESTOS. 17-4

BETA ABSORPTION IN TRITIATED TARGETS AND X RAY COUNTING CORRECTIONS. 20-11

COUNTY
ADDITIONAL NOTE ON THE ISOTOPIC COMPOSITION OF STRONTIUM IN MCCARTYS FLOW, VALENCIA COUNTY, NEW MEXICO. 11-1

COUPLED
PROPOSED METS (MAGNETIC ENERGY TRANSFER AND STORAGE) - FTR (FUSION TEST REACTOR) COUPLED SUPERCONDUCTING PROTOTYPE SYSTEM. 8-40

EQUAL AREA PROPERTY OF NARROW RESONANCES INDUCED IN COUPLED DOPPLER BROADENED SYSTEMS BY INTENSE LASER RADIATION. 20-40

POWER DENSITY ASYMMETRIES IN COUPLED CORE REACTOR SYSTEMS. 30-64

COUPLING
CONSEQUENCES OF COUPLING COEFFICIENT SATURATION ON THE NONLINEAR BEHAVIOR OF DECAY INSTABILITIES. 10-10

COUPLING COEFFICIENT SATURATION IN THE NONLINEAR THEORY OF PARAMETRIC INSTABILITIES. 10-14

ION COUPLING, ELECTRON HEATING, AND MAGNETIC TURBULENCE FROM PLASMA INSTABILITIES. 10-63

QUANTITATIVE ANALYSIS OF CARBON - CARBON COUPLING IN THE CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF MOLECULES BIOSYNTHESIZED FROM CARBON -13 ENRICHED PRECURSORS. 14-10

CRACK
GEOTHERMAL RESERVOIR MODELS: CRACK PLANE MODEL. 11-23

CRITICAL BOREHOLE PRESSURE FOR A VERTICAL HYDRAULIC CRACK IN THE PRESENCE OF TWO PRINCIPAL TOTAL STRESSES. 11-9

CRACKS
THEORY OF IRRADIATION INDUCED GROWTH OF FATIGUE CRACKS. 23-57

CRASSA
CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF WHOLE CELLS AND OF CYTOCHROME C FROM NEUROSOPORA CRASSA GROWN WITH CARBON 13 METHIONINE. 14-3

CREATION
GRAVITY WAVES GENERATED BY THE CREATION OF A CYLINDRICAL CAVITY IN WATER. 15-12

CREEP
CAVITY STABILITY: FINITE ELEMENT ANALYSIS FOR STEADY AND TRANSIENT CREEP. 11-5

CRITERIA
ONSET CRITERIA FOR INSULATING ELECTRONIC TRANSITIONS IN THREE DIMENSIONAL SYSTEMS. 27-12

PRESTRESSED CONCRETE REACTOR VESSELS: REVIEW OF DESIGN AND FAILURE CRITERIA. 28-30

DESIGN CRITERIA (REVISED) FOR TRANSURANIC CONTAMINATED SOLID WASTE TREATMENT DEVELOPMENT FACILITY 30-18

CRITICAL
ADJACENT CONDUCTOR FIELD CORRECTIONS TO HIGH CRITICAL CURRENT SHORT SAMPLE MEASUREMENTS. 8-3

CRITICAL CURRENT DENSITIES IN NIOBIUM(3) GERMANIUM BETWEEN 14 AND 21 DEGREES KELVIN. 8-8

CRITICAL BOREHOLE PRESSURE FOR A VERTICAL HYDRAULIC CRACK IN THE PRESENCE OF TWO PRINCIPAL TOTAL STRESSES. 11-8

EFFECTS OF NEUTRON IRRADIATION ON CRITICAL CURRENT OF NIOBIUM(3)TIN AT HIGH FIELD. 23-15

EFFECTS OF REACTOR NEUTRON, 14 MEV NEUTRON AND ENERGETIC CHARGED PARTICLE IRRADIATIONS ON THE CRITICAL CURRENT IN NIOBIUM(3)TIN 23-16

LOS ALAMOS CRITICAL MASS DATA. 24-14

REFLECTOR MODERATED CRITICAL ASSEMBLIES. 24-18

TUNGSTEN CARBIDE CRITICAL ASSEMBLY. 24-20

CALCULATIONS OF FAST CRITICAL ASSEMBLIES USING ENDF/B-IV CROSS SECTION DATA. 24-3

CENTRAL NEUTRON SPECTRUM OF THE FAST CRITICAL ASSEMBLY BIG-TEN. 24-5

CRITICAL ASSEMBLIES. 24-7

CRITICAL ASSEMBLIES. 24-8

CRITICAL ASSEMBLY MOCKUP STUDIES OF THE PHOEBUS-2 ROVER REACTOR. 30-15

CROSS
SPALLATION CROSS SECTIONS AND THE LAMPF MEDICAL RADIOISOTOPE PROGRAM. 5-135

APPLICATION OF SENSITIVITY ANALYSIS TO A QUANTITATIVE ASSESSMENT OF NEUTRON CROSS SECTION REQUIREMENTS FOR THE TFTR (TOKAMAK FUSION TEST REACTOR): AN INTERIM REPORT. 10-2

KINETIC NONLOCAL ANALYSIS OF CROSS FIELD INSTABILITIES IN THETA PINCH PLASMAS. 10-67

NEUTRON ENERGY DEPENDENCE OF DEFECT PRODUCTION CROSS SECTIONS IN COPPER AND ALUMINUM. 10-84

NONLOCAL ANALYSIS OF CROSS FIELD INSTABILITIES IN THETA PINCHES. 10-85

ASM80: A CDC 7600 MACRO CROSS ASSEMBLER FOR III-15 AND L.E.C. PDP-9 AND PDP-15 COMPUTERS. 21-9

DISTORTED PERIPHERAL CROSS SECTIONS FOR DEUTERON (PI+,2PROTON). 22-11

CALCULATIONS OF FAST CRITICAL ASSEMBLIES USING ENDF/B-IV CROSS SECTION DATA. 24-3

(NEUTRON, FISSION) CROSS SECTIONS FOR EXOTIC ACTINIDES. 25-1

KILOVOLT SULFUR -33 (NEUTRON,ALPHA-0) AND SULFUR -33 (NEUTRON,GAMMA) CROSS SECTIONS: IMPORTANCE IN THE NUCLEOSYNTHESIS OF THE RARE NUCLEUS SULFUR -36. 25-101

MEASUREMENT OF (NEUTRON,2NEUTRON) AND (NEUTRON,3NEUTRON) CROSS SECTIONS. 25-112

MEASUREMENT OF THE CROSS SECTION FOR THE REACTION PI(-) + PROTON TO PI(+) + NEUTRON AT 350 AND 300 MEV. 25-113

MEASUREMENT, ANALYSIS, AND IMPLICATIONS OF THE FISSION CROSS SECTIONS OF THE IMPORTANT FISSIONABLE ISOTOPES. 25-115

MORE 14 MEV, NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS. 25-122

NEUTRON FISSION CROSS SECTION OF CALIFORNIUM -249 25-130

NJOY: A NEUTRON AND PHOTON CROSS SECTION PROCESSING SYSTEM 25-138

PHOTOIONIZATION CROSS SECTIONS AND RADIATIVE RECOMBINATION RATE COEFFICIENTS FOR IRON(XV-XXV) 25-162

PHOTOIONIZATION CROSS SECTIONS AND RADIATIVE RECOMBINATION RATE COEFFICIENTS FOR POSITIVE IONS OF CARBON AND GOLD 25-163

PI (PLUS AND MINUS) - HELIUM -4 TOTAL CROSS SECTIONS FROM 50-100 MEV 25-166

QUANTITATIVE ASSESSMENT OF CTR CROSS SECTION NEEDS 25-187

QUANTITATIVE BASIS FOR CROSS SECTION REQUIREMENTS FOR A FUSION TEST REACTOR 25-188

SELF SHIELDED CROSS SECTIONS FOR NEUTRON TRANSPORT IN IRON 25-201

THERMAL NEUTRON CAPTURE AND ABSORPTION CROSS SECTIONS FOR NICKEL -59. 25-220

TOTAL NEUTRON CROSS SECTIONS OF HELIUM -3, HELIUM -4, LITHIUM -6, LITHIUM -7 IN THE MEV RANGE. 25-225

TRITIUM (DEUTERON,NEUTRON) HELIUM -4 AND TRITIUM (TRITON,2NEUTRON) CROSS SECTIONS AT LOW ENERGIES 25-227

CALCIUM -40 (NEUTRON,ALPHA) ARGON -37 CROSS SECTION FROM 3 TO 14.7 MEV. 25-231

COMPLETE FUSION CROSS SECTIONS IN HEAVY ION REACTIONS. 25-34

CONDITION FOR A VANISHING CROSS SECTION AT THETA = PI/2 IN BARSHAY-TEMMER REACTIONS. 25-35

CROSS SECTION METHODOLOGY IN SIMMER 25-39

CROSS SECTION UNCERTAINTY ANALYSIS. 25-40

CROSS SECTIONS FOR (NEUTRON,N-NEUTRON) REACTIONS BETWEEN 7.5 AND 28 MEV. 25-41

CROSS SECTIONS FOR DEUTERON (PI+,2PROTON) WITH DISTORTED PROTONS 25-42

DEUTERON - DEUTERON TOTAL SCATTERING CROSS SECTIONS IN THE VELOCITY RANGE 950-2250 M/SEC. 25-47

DIFFERENTIAL CROSS SECTIONS FOR COHERENT PHOTON SCATTERING BY ELEMENTS Z=2 THROUGH Z=26. 25-48

DIFFERENTIAL CROSS SECTIONS FOR GAMMA RAYS FROM IRON FOR INCIDENT NEUTRONS OF 8.5, 10.0, 12.2, AND 14.2 MEV. 25-49

ELECTRON ELASTIC SCATTERING CROSS SECTIONS FROM 1 KEV TO 100 MEV FOR ELEMENTS Z = 1 TO 100 25-62

ABSOLUTE CROSS SECTIONS FOR PRODUCTION OF PROMPT NUCLEAR GAMMA RAYS BY FAST PIONS. 25-7

EVALUATION OF GAMMA RAY PRODUCTION CROSS SECTIONS FROM NEUTRON INDUCED REACTIONS ON TUNGSTEN. 25-70

FAST PION INDUCED PROCESSES IN COMPLEX NUCLEI: CROSS SECTION AND ALPHA REMOVAL. 25-79

FISSION CROSS SECTION OF URANIUM -238 IN THE NEIGHBORHOOD OF 7 MEV. 25-80

FOURTEEN MEV, NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS FOR SEVERAL ELEMENTS. 25-84

INELASTIC SCATTERING CROSS SECTIONS OF LEAD AND URANIUM FOR 14 MEV NEUTRONS. 25-99

FITPI: MODIFICATIONS TO THE OPTICAL MODEL PROGRAM PIRK FOR PARAMETER SEARCHES AND TOTAL CROSS SECTIONS. 29-3

CRYOGENIC
ELECTRICAL BREAKDOWN AND TRACKING CHARACTERISTICS OF PULSED HIGH VOLTAGES IN CRYOGENIC HELIUM AND NITROGEN. 8-15

CRYOGENIC THERMAL EXPANSION OF Y-12 GRAPHITE FUEL ELEMENTS. 30-16

CRYOGENICS
CRYOGENICS THE UNCOMMON COLD. 8-9

CRYOSTAT
PROPERTIES OF BONE AT LOW TEMPERATURE AND ITS POTENTIAL AS CRYOSTAT SUPPORT MATERIAL. 8-39

CRYSTAL
POTENTIAL CONSTANTS OF POTASSIUM ZINC TETRACYANIDE IN THE CRYSTAL LATTICE. 4-50

PENTAERYTHRITOL TETRANITRATE II: ITS CRYSTAL STRUCTURE AND TRANSFORMATION TO PETN I: AN ALGORITHM FOR REFINEMENT OF CRYSTAL STRUCTURES WITH POOR DATA. 9-17

PENTAERYTHRITOL TETRANITRATE II: ITS CRYSTAL STRUCTURE AND TRANSFORMATION TO PETN I: AN ALGORITHM FOR REFINEMENT OF CRYSTAL STRUCTURES WITH POOR DATA. 9-17

RADIATION EFFECTS ON THE LATTICE CONSTANTS OF SINGLE CRYSTAL ALUMINUM DIOXIDE 9-19

REFINEMENT OF THE CRYSTAL STRUCTURE OF CUPROSKLODOWSKITE 9-20

REFINEMENT OF THE CRYSTAL STRUCTURE OF MELAMINE, 2 4,6- TRIAMINO -S- TRIAZINE, USING GENERALIZED SCATTERING FACTORS AT THE OCTUPOLE LEVEL 9-21

CRYSTAL AND MOLECULAR STRUCTURE OF CHLOROBIS (1-BUTENYLDIPHENYLPHOSPHINO) RHODIUM(I) 9-6

CRYSTAL DATA FOR TWO POLYMORPHIC FORMS OF PLUTONIUM DIOXIDE (PUOS2) 9-7

CRYSTAL STRUCTURE OF PRASEODYMIUM(3) OXYGEN(12) BY POWDER NEUTRON DIFFRACTION 9-8

DYNAMIC ELASTIC - PLASTIC PROPERTIES OF SINGLE CRYSTAL PETN 15-6

CRYSTALLOGRAPHY
OPTICAL AND MORPHOLOGICAL CRYSTALLOGRAPHY OF PLUTONIUM COMPOUNDS. 9-16

CTR
CTR APPLICATIONS OF THE HIGH DENSITY LINEAR THETA PINCH. 10-15

HEAT TRANSFER MODEL FOR COMPOSITE FIRST WALL MATERIALS IN A PULSED HIGH BETA CONTROLLED THERMONUCLEAR REACTOR (CTR). 10-46

IMPLICATIONS TO THE CTR COMMUNITY OF STANDARDIZATION IN NUCLEAR ANALYSIS CODES 10-54

NET APPLICATIONS IN CTR ENGINEERING. 10-83

OPTICAL DIAGNOSTICS OF THE SCYLLAC CTR DEVICE. A CASE STUDY. 10-94

QUANTITATIVE ASSESSMENT OF CTR CROSS SECTION NEEDS. 25-187

CUBIC
EXTRAPOLATED COLLOCATION FOR TWO POINT BOUNDARY VALUE PROBLEMS USING CUBIC SPLINES. 21-33

CULTURE
BIOLOGICAL EFFECTS OF THE LOS ALAMOS MESON BEAM ON CELLS IN CULTURE. 5-13

CELL CYCLE DEPENDENT SURFACE CHANGES IN CHINESE HAMSTER CELLS GROWN IN SUSPENSION CULTURE. 5-26

CULTURED
SPATIAL DISTRIBUTION OF EFFECTS OF NEGATIVE PIONS ON CULTURED HUMAN CELLS. 5-136

SURVIVAL OF CULTURED MAMMALIAN CELLS IRRADIATED AT VARIOUS DEPTHS IN THE LAMPF NEGATIVE PION THERAPY BEAM. 5-139

BIOLOGICAL EFFECTS OF ULTRASOUND ON CULTURED MAMMALIAN CELLS. 5-14

APPEARANCE OF CYTOPLASMIC INFORMOSOMES IN CULTURED CHINESE HAMSTER CELLS IN THE ABSENCE OF PROTEIN SYNTHESIS. 5-4

EXISTENCE OF A RESIDUAL NUCLEAR PROTEIN MATRIX IN CULTURED CHINESE HAMSTER CELLS. 5-64

CUMULATE
PETROLOGY OF DEEP SEATED CUMULATE INCLUSIONS, WEST POTRILLO MOUNTAINS, NEW MEXICO. 11-39

CUMULATIVE
NUCLEAR CHARGE DISTRIBUTION IN FISSION SPECTRUM NEUTRON INDUCED FISSION: FRACTIONAL CUMULATIVE YIELDS OF RARE GAS NUCLIDES FROM FISSION OF URANIUM -235 AND URANIUM -238. 16-10

CUP
TESTING AND CALIBRATION OF A FARADAY CUP AND OTHER INTENSITY MONITORS FOR THE EXTERNAL PROTON BEAM AT LAMPF. 22-52

CUPFERRON
QUANTITATIVE SEPARATION OF AMERICIUM AND PLUTONIUM USING CUPFERRON. 7-14

CUPROSKLODDWSKITE
REFINEMENT OF THE CRYSTAL STRUCTURE OF CUPROSKLODOWSKITE. 9-20

CURIE
EFFECT OF PRESSURE ON CURIE TEMPERATURE OF URANIUM (FE1-XMNX)2 COMPOUNDS. 23-12

CURRENT
ELECTROMAGNETIC CURRENT INSTABILITIES. 1-4

QUANTITATIVE PULSED EDDY CURRENT ANALYSIS. 2-23

CURRENT STATUS OF INFORMATION OBTAINED FROM PLUTONIUM CONTAMINATED PEOPLE. 5-48

DIRECTIONAL EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT. 8-13

INVESTIGATION OF THE SOURCES OF ASYMMETRY EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT IN TYPE II TANTALUM WIRES 8-20

MAGNETIC FIELD MICROPROBE IN SUPERCONDUCTORS CARRYING A CURRENT 8-29

ADJACENT CONDUCTOR FIELD CORRECTIONS TO HIGH CRITICAL CURRENT SHORT SAMPLE MEASUREMENTS. 8-7

OBSERVATION OF ASYMMETRY EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT IN TYPE II TANTALUM WIRES. 8-32

TEMPERATURE AND CURRENT DEPENDENCE OF THE MAGNETIC FIELD PROFILES OF NIOBIUM(3)TIN TAPES CARRYING A CURRENT. 8-52

TEMPERATURE AND CURRENT DEPENDENCE OF THE MAGNETIC FIELD PROFILES OF NIOBIUM(3)TIN TAPES CARRYING A CURRENT. 8-52

CRITICAL CURRENT DENSITIES IN NIOBIUM(3) GERMANIUM BETWEEN 14 AND 21 DEGREES KELVIN. 8-8

CURRENT DRIVEN INSTABILITIES IN THE PRESENCE OF HEAT CONDUCTION. 10-16

ORIGIN OF AXIAL CURRENT IN SCYLLAC 10-86

CURRENT STATUS OF THE LOS ALAMOS DRY HOT ROCK GEOTHERMAL ENERGY EXPERIMENT. 11-10

ORIGIN OF CURRENT STANDARDS. 17-33

PLASMA HEATING BY RELATIVISTIC ELECTRON BEAMS. PART 2. RETURN CURRENT INTERACTION. 20-117

REPRESENTATIONS OF A LOCAL CURRENT ALGEBRA: THEIR DYNAMICAL DETERMINATION 21-70

APPROXIMATE REPRESENTATIONS OF A LOCAL CURRENT ALGEBRA. 21-8

LAMPF EXPERIMENTAL AREA BEAM CURRENT MONITORS. 22-23

PROTOTYPE HIGH CURRENT, HIGH DUTY FACTOR NEGATIVE HYDROGEN ION SOURCE FOR LAMPF 22-44

EFFECTS OF NEUTRON IRRADIATION ON CRITICAL CURRENT OF NIOBIUM(3)TIN AT HIGH FIELD. 23-15

EFFECTS OF REACTOR NEUTRON, 14 MEV NEUTRON AND ENERGETIC CHARGED PARTICLE IRRADIATIONS ON THE CRITICAL CURRENT IN NIOBIUM(3)TIN. 23-16

CURRENTS
MESON EXCHANGE CURRENTS IN NEUTRON -PROTON BREMSSTRAHLUNG. 25-117

CURVED
PARTICULATE TRANSPORT IN THREE DIMENSIONAL FLUID FLOWS THROUGH CURVED AND BIFURCATING VESSELS. 18-37

CURVES
THEORETICAL COLORS FOR CEPHEIDS WITH TRANSFER EFFECTS NOW EVIDENT IN THEIR LIGHT CURVES. 3-45

CUSHION
RATIONAL DYNAMIC LOADS ANALYSIS FOR AIR CUSHION VEHICLES IN RANDOM SEAWAY OR TERRAIN. 30-76

CUTOFF
COULOMB LOGARITHM CUTOFF. 10-13

CYANIDE
SYNTHESES WITH STABLE ISOTOPES: SODIUM CYANIDE - CARBON -13. 7-18

CYANOGEN
OSCILLATOR STRENGTHS FROM LINE ABSORPTION IN A HIGH TEMPERATURE FURNACE. 2. THE (0,0) BAND OF THE B(2)SIGMA(+) -X(2)SIGMA (+) TRANSITION IN CYANOGEN. 4-48

CYCLASE
REGULATION OF ADENYLATE CYCLASE ACTIVITY BY CELL SURFACE HYALURONATE IN HUMAN LIMB MESENCHYMAL CELLS IN VITRO. 5-126

CYCLE
BIOCHEMICAL EVENTS DURING THE MAMMALIAN CELL CYCLE. 5-10

RELATIONSHIP OF HISTONE PHOSPHORYLATION TO THE CHROMOSOME CYCLE. 5-127

SEQUENTIAL PHOSPHORYLATION OF HISTONE SUBFRACTIONS IN THE CHINESE HAMSTER CELL CYCLE. 5-131

UNIQUE TECHNIQUES FOR CELL CYCLE ANALYSIS UTILIZING MITHRAMYCIN AND FLOW MICROFLUOROMETRY. 5-144

CELL CYCLE ANALYSIS: OPENING REMARKS. 5-21

CELL CYCLE ANALYSIS: SESSION SUMMARY. 5-22

CELL CYCLE DEPENDENT PHOSPHORYLATION OF DIFFERENT REGIONS OF F1 HISTONE. 5-23

CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES. 5-24

CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES. 5-25

CELL CYCLE DEPENDENT SURFACE CHANGES IN CHINESE HAMSTER CELLS GROWN IN SUSPENSION CULTURE. 5-26

CELL CYCLE SPECIFIC CHANGES IN ORGANIZATION OF CHROMATIN DETECTED BY POLYANION MEDIATED CHROMATIN DECONDENSATION. 5-27

CELL CYCLE SPECIFIC CHANGES IN CHROMATIN ORGANIZATION. 5-28

COMPARATIVE EFFECTS OF THREE NITROSUREA DERIVATIVES ON MAMMALIAN CELL CYCLE PROGRESSION. 5-42

DIFFERENTIAL EFFECTS OF TWO CHEMOTHERAPEUTIC AGENTS, STREPTOZOTOCIN AND CHLOROZOTOCIN, ON THE MAMMALIAN CELL CYCLE. 5-54

CYCLING
ARRESTED AND CYCLING CHO CELLS AS A KINETIC MODEL. 5-6

CYCLONE
CYCLONE SAMPLING OF FIBROUS GLASS AEROSOLS. 17-7

CYCLOPENTADIENYL
STRUCTURE OF TRIS(CYCLOPENTADIENYL) FLUOROURANIUM(IV). 9-26

CYCLOPENTADIENYL-X
SYNTHESIS OF CYCLOPENTADIENYL-X CARBON -13 THALLIUM. 7-20

CYCLOTRON
ELECTROMAGNETIC ION CYCLOTRON INSTABILITY DRIVEN BY ION ENERGY ANISOTROPY IN HIGH BETA PLASMAS. 10-25

CYLINDER
NUMERICAL CALCULATION OF THE CYLINDER TEST. 18-28

STRESS ANALYSIS AND STATIC TESTING OF KIWI GRAPHITE REFLECTOR CYLINDER STRUCTURES. 30-88

CYLINDRICAL
GRAVITY WAVES GENERATED BY THE CREATION OF A CYLINDRICAL CAVITY IN WATER. 15-12

ELECTRICALLY IMPLODED CYLINDRICAL FUSION TARGETS. 20-34

CYTOCHROME
CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF WHOLE CELLS AND OF CYTOCHROME C FROM NEUROSOPORA CRASSA GROWN WITH CARBON -13 METHIONINE. 14-3

CYTOPLASMIC
PREPARATIVE METHODS FOR ANALYSIS OF DNA, PROTEIN AND NUCLEAR - TO - CYTOPLASMIC RATIOS IN NORMAL AND TUMOR CELL POPULATIONS. 5-118

APPEARANCE OF CYTOPLASMIC INFORMOSOMES IN CULTURED CHINESE HAMSTER CELLS IN THE ABSENCE OF PROTEIN SYNTHESIS. 5-4

D
CIRCULAR DICHROISM SPECTRA OF POLY D(AC)-D(GT)*, POLY R(AC)-R(GU)*, AND HYBRIDS POLY D(AC)-R(GU)* AND POLY R(AC)-D(GT)* IN THE PRESENCE OF ETHANOL. 5-40

CIRCULAR DICHROISM SPECTRA OF POLY D(AC)-D(GT)*, POLY R(AC)-R(GU)*, AND HYBRIDS POLY D(AC)-R(GU)* AND POLY R(AC)-D(GT)* IN THE PRESENCE OF ETHANOL. 5-40

CONFORMATION OF POLY D(A-A-T)-D(A-T-T). 5-47

WASTE MANAGEMENT AND SAFETY CONSIDERATIONS FOR FUTURE LASL D+D (DECONTAMINATION AND DECOMMISSIONING) PROJECTS. 17-62

WASTE MANAGEMENT AND SAFETY CONSIDERATIONS FOR FUTURE LASL D+D (DECONTAMINATION AND DECOMMISSIONING) PROJECTS. 17-62

BOOK REVIEW: APPLICABLE FINITE MATHEMATICS, BY D. S. MOORE AND J. W. YACKEL. 21-14

SELF INTERACTING, BOSON, QUANTUM, FIELD THEORY AND THE THERMODYNAMIC LIMIT IN D DIMENSIONS. 21-72

ASM80: A CDC 7600 MACRO CROSS ASSEMBLER FOR III-15 AND D.E.C. PDP-9 AND PDP-15 COMPUTERS. 21-9

PI-MINUS D TO GAMMA NN AND MU-MINUS D TO NU NN. 22-41

PI-MINUS D TO GAMMA NN AND MU-MINUS D TO NU NN. 22-41

BUILDING D PLUTONIUM PURIFICATION: EQUIPMENT DRAWINGS. 30-6

QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC R AND D PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1969. PART 2. 30-71

SPACE ELECTRIC POWER R AND D PROGRAM, QUARTERLY STATUS REPORT FOR THE PERIOD ENDING APRIL 30, 1969. 30-85

DACITE
MAGMA CONTAMINATION WITHIN THE VOLCANIC PILE: ORIGIN OF ANDESITE AND DACITE: COMMENT AND REPLY. 11-26

ORIGIN OF ANDESITE AND DACITE: EVIDENCE OF MIXING AT GLASS MOUNTAIN IN CALIFORNIA AND OTHER CIRCUM-PACIFIC VOLCANOES. 11-35

DAMAGE
RADIOACTIVITY, RADIATION DAMAGE, AND REMOTE HANDLING. 13-13

DAMAGE TO LENGTHS OF PRIMACORD BY DETONATION OF NEARBY LENGTHS. 15-3

DAMAGE THRESHOLDS IN ZINC SELENIDE, A/R COATED SODIUM CHLORIDE AND MICROMACHINED MIRRORS BY 10.6 MICRON MULTIJOULE, NANOSECOND PULSES. 20-21

INFLUENCE OF STANDING WAVE FIELDS ON THE LASER DAMAGE RESISTANCE OF DIELECTRIC FILMS. 20-56

HIGH ENERGY PROTON SIMULATION OF 14 MEV NEUTRON DAMAGE IN ALUMINUM OXIDE. 23-28

CHARACTERISTICS OF RADIATION DAMAGE PARAMETERS IN VARIOUS NEUTRON SPECTRA. 25-26

LOGNORMAL DAMAGE FUNCTION WITH OFFSET CIRCULAR NORMAL TARGET AND WEAPON LOCATIONS: MEAN AND OTHER MOMENTS. 30-43

DAMPING
ELECTRON HEATING AND LANDAU DAMPING IN INTENSE LOCALIZED ELECTRIC FIELDS. 10-26

COLLISIONAL DAMPING OF LANGMUIR WAVES IN ONE DIMENSIONAL PLASMA SIMULATIONS. 20-19

DATA
HIGH ALTITUDE LOSS CONE AND CHARGE EXCHANGE CALCULATIONS, AND COMPARISON WITH STARFISH DATA. 4-26

MUMPS CODE BUILDING PACKAGE FOR DATA BASE MANAGEMENT. 5-104

WHAT WE HAVE LEARNED ABOUT PLUTONIUM FROM HUMAN DATA. 5-147

CESIUM KINETICS DATA FOR ESTIMATING FOOD CONSUMPTION RATES OF TROUT. 5-34

PENTAERYTHRITOL TETRANITRATE II: ITS CRYSTAL STRUCTURE AND TRANSFORMATION TO PETN I: AN ALGORITHM FOR REFINEMENT OF CRYSTAL STRUCTURES WITH POOR DATA. 9-17

CRYSTAL DATA FOR TWO POLYMORPHIC FORMS OF PLUTONIUM DIOXIDE (PUOS2). 9-7

DETERMINATION OF PERMEABILITY OF GRANITIC ROCKS IN GT-2 FROM HYDRAULIC FRACTURING DATA. 11-12

THEORETICAL, ANALYTICAL, AND STATISTICAL INTERPRETATION OF ENVIRONMENTAL DATA. 17-59

HUGONIOT DATA FOR SEVERAL BENZENE RING LIQUIDS. 18-18

LOW ALTITUDE FIREBALL CALCULATIONS. 1. COMPARISONS WITH DATA FOR DOMINIC EVENTS. 18-23

GENERAL PURPOSE COMPUTER PROGRAM FOR MANIPULATING AND ANALYZING TABULAR DATA. 21-37

REMOTE TRANSIENT DATA ACQUISITION SYSTEM. 21-69

INCREASING THE RELEVANCE OF DATA PRESENTED TO THE OPERATORS IN AN ACCELERATOR CONTROL SYSTEM. 22-19

LOS ALAMOS CRITICAL MASS DATA. 24-14

CALCULATIONS OF FAST CRITICAL ASSEMBLIES USING ENDF/B-IV CROSS SECTION DATA. 24-3

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT. QUARTERLY PROGRESS REPORT, OCTOBER 1 THROUGH DECEMBER 31, 1974. 25-13

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, APRIL 1 - JUNE 30, 1975. 25-14

NUCLEAR DATA FOR CALCULATION OF RADIOACTIVITY EFFECTS. 25-142

NUCLEAR MODELS AND DATA FOR GAMMA RAY PRODUCTION. 25-145

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, JANUARY 1 - MARCH 31, 1975. 25-15

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, JULY 1 - SEPTEMBER 30, 1975. 25-16

PROPRIETARY, STANDARD, AND GOVERNMENT SUPPORTED NUCLEAR DATA BASES. 25-180

BENCHMARK EXPERIMENTS FOR NUCLEAR DATA. 25-19

TECHNIQUE FOR SIMULTANEOUS ADJUSTMENT OF LARGE NUCLEAR DATA LIBRARIES. 25-215

CONSISTENCY AMONG DIFFERENTIAL NUCLEAR DATA AND INTEGRAL OBSERVATIONS: THE ALVIN CODE FOR DATA ADJUSTMENT, FOR SENSITIVITY CALCULATIONS, AND FOR IDENTIFICATION OF INCONSISTENT DATA. 25-36

ENDF/B-IV FISSION PRODUCT FILES: SUMMARY OF MAJOR NUCLIDE DATA. 25-63

DC
ECONOMIC AND SYSTEM ASPECTS OF A SUPERCONDUCTING MAGNETIC ENERGY STORAGE DEVICE AND A DC SUPERCONDUCTING TRANSMISSION LINE. 8-14

INVESTIGATIONS ON POTENTIAL CONDUCTORS FOR A DC SUPERCONDUCTING POWER TRANSMISSION LINE IN A 20 METER TEST BED. 8-21

PROGRESS REPORT. USERDA-DAT DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. JULY 1 THROUGH SEPTEMBER 30, 1974. 8-38

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, APRIL 1 - JUNE 30, 1975. 8-58

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JANUARY 1 - MARCH 31, 1975. 8-59

USERDA DIVISION OF ELECTRIC POWER TRANSMISSION AND DISTRIBUTION DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1974. 8-60

DISTORTION AND NOISE INDUCED DC OFFSET IN OPERATIONAL AMPLIFIERS. 13-3

LOS ALAMOS PRESENTATION ON LASER FUSION TO THE JOINT COMMITTEE ON ATOMIC ENERGY, WASHINGTON, DC, MARCH 13, 1975. 20-86

DEBRIS
DEBRIS - AIR INTERACTIONS AND THEIR EFFECTS ON RADAR CLUTTER. 18-7

DEBRIS ENERGY PATCH CALCULATION. 18-8

DECAY
CONSEQUENCES OF COUPLING COEFFICIENT SATURATION ON THE NONLINEAR BEHAVIOR OF DECAY INSTABILITIES. 10-10

SPECTRAL OBSERVATION OF ELECTROMAGNETIC WAVE DECAY DUE TO THE OTS AND DECAY PARAMETRIC INSTABILITIES. 10-126

SPECTRAL OBSERVATION OF ELECTROMAGNETIC WAVE DECAY DUE TO THE OTS AND DECAY PARAMETRIC INSTABILITIES. 10-126

THEORY AND SIMULATION OF THE PARAMETRIC DECAY OF WHISTLER SOLITARY WAVES. 10-144

DECAY CHARACTERISTICS OF SOIL THERMOLUMINESCENCE. 11-11

FISSION PRODUCT GAMMA AND (GAMMA,NEUTRON) SPECTRA AND GAMMA DECAY HEAT. 16-2

GAMMA AND BETA DECAY POWER FOLLOWING URANIUM -235 AND PLUTONIUM -239 FISSION BURSTS. 16-5

NUCLEAR ORIENTATION STUDY OF THE DECAY OF METASTABLE LUTETIUM -177. 25-146

SEARCH FOR ALPHA DECAY IN NATURAL OSMIUM -186. 25-200

COMPARISON OF COPPER AND GOLD ORE RESPONSES TO NEUTRON CAPTURE AND DECAY GAMMA RAY TECHNIQUES WITH CALIFORNIUM -252. 25-33

ELECTRIC FIELD GRADIENT IN CADMIUM METAL AND THE DECAY OF METASTABLE CADMIUM -115. 25-61

ERBIUM -158 TO HOLMIUM -158 DECAY SCHEME AND Q-BETA VALUE. 25-68

DECAYS
ON-LINE INTERNAL CONVERSION COEFFICIENTS FOR THE DECAYS OF MASS SEPARATED KRYPTON -91 AND RUBIDIUM -91. 25-149

GAMMA RAY ANGULAR DISTRIBUTIONS AND PARITY TESTS IN THE DECAYS OF POLARIZED LUTETIUM -173 AND LUTETIUM -174M,G. 25-85

DECEMBER
SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, OCTOBER 1 - DECEMBER 31, 1974. 8-48

USERDA DIVISION OF ELECTRIC POWER TRANSMISSION AND DISTRIBUTION DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1974. 8-60

LASL CONTROLLED THERMONUCLEAR RESEARCH PROGRAM, JANUARY - DECEMBER 1974. 10-70

SOLID EARTH GEOSCIENCES RESEARCH ACTIVITIES AT LASL, JULY 1 - DECEMBER 31, 1974. 11-54

VENTILATION SYSTEMS ANALYSIS DURING TORNADO CONDITIONS, JULY THROUGH DECEMBER 1974. 13-20

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES OCTOBER 1 - DECEMBER 31, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-20

PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS FOR PERIOD JULY 1 THROUGH DECEMBER 31, 1972. 17-36

CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY, JULY - DECEMBER 1974. 17-6

LASER PROGRAM AT LASL, JULY 1 - DECEMBER 31, 1974. 20-80

PROGRESS REPORT. RESEARCH ON CARBON -ALUMINUM COMPOSITES AUGUST 1 - DECEMBER 31, 1974. 22-43

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT. QUARTERLY PROGRESS REPORT. OCTOBER 1 THROUGH DECEMBER 31, 1974. 25-13

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT. PROGRAM STATUS REPORT, SEPTEMBER - DECEMBER 1974. 26-18

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS. OCTOBER 1 THROUGH DECEMBER 31, 1974 28-33

QUARTERLY REPORT. HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM. OCTOBER THROUGH DECEMBER 1974. 28-34

QUARTERLY REPORT. TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY. OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-35

MONTHLY STATUS REPORT OF LASL ROVER PROGRAM FOR PERIOD ENDING DECEMBER 30, 1962. 30-50

DECOMMISSIONING
WASTE MANAGEMENT AND SAFETY CONSIDERATIONS FOR FUTURE LASL D+D (DECONTAMINATION AND DECOMMISSIONING) PROJECTS. 17-62

DECOMPOSITION
DECOMPOSITION OF CARBON -14 LABELED PLANT MATERIALS IN A GRASSLAND SOIL UNDER FIELD CONDITIONS. 5-49

INFLUENCE OF METALS ON THE THERMAL DECOMPOSITION OF S-TRIAMINOTRINITROBENZENE (TATB). 15-15

DECONDENSATION
CELL CYCLE SPECIFIC CHANGES IN ORGANIZATION OF CHROMATIN DETECTED BY POLYANION MEDIATED CHROMATIN DECONDENSATION. 5-27

DECONTAMINATION
WASTE MANAGEMENT AND SAFETY CONSIDERATIONS FOR FUTURE LASL D+D (DECONTAMINATION AND DECOMMISSIONING) PROJECTS. 17-62

LAUNDRY DECONTAMINATION STUDIES AT LOS ALAMOS. 30-40

DECONVOLUTION
CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES. 2. 30 MAY 1965 RESULTS, DECONVOLUTION AND INTERPRETATION. 3-11

DEDUCED
LIMIT ON THE PHOTON MASS DEDUCED FROM PIONEER 10 OBSERVATIONS OF JUPITER'S MAGNETIC FIELD. 3-24

DEDUCED NEUTRON ENERGY SPECTRA ON SKYLAB. 25-43

DEEP
NEW AND MORE ACCURATE METHOD FOR THE DIRECT MEASUREMENTS OF EARTH TEMPERATURE GRADIENTS IN DEEP BOREHOLES. 11-33

PETROLOGY OF DEEP SEATED CUMULATE INCLUSIONS, WEST POTRILLO MOUNTAINS, NEW MEXICO. 11-39

TRANSDUCER TECHNOLOGY FOR DEEP BOREHOLE GEOTHERMAL ENVIRONMENTS. 11-59

DEFECT
NEUTRON ENERGY DEPENDENCE OF DEFECT PRODUCTION CROSS SECTIONS IN COPPER AND ALUMINUM. 10-84

DEFENSE
DEFENSE FORCE FOR NATO'S CENTRAL REGION. 30-17

DEFORMATION
LARGE STRAIN DEFORMATION OF POLYCRYSTALLINE METALS AT LOW HOMOLOGOUS TEMPERATURE. 23-32

DEFORMATIONS
EQUILIBRIUM DEFORMATIONS AND EXCITATION ENERGIES FOR NONCOLLECTIVE STATES IN ODD Z RARE EARTH NUCLEI. 25-67

DEFORMED
NUCLEAR STRUCTURE STUDIES IN HEAVY DEFORMED NUCLEI USING MUONIC ATOMS. 25-147

DEFORMED HARTREE-FOCK DESCRIPTION OF THE IRON, NICKEL, AND ZINC ISOTOPES. 25-44

IMPORTANCE OF THE QUADRUPOLE PAIRING FIELD IN THE J(PI)=0(+) VIBRATIONS OF SHAPE DEFORMED NUCLEI. 25-97

DEGRADATION
DETERMINATION OF BINDER DEGRADATION IN PLASTIC BONDED EXPLOSIVES. 15-4

DEGRADATION OF PIONEER TYPE TANTALUM ALLOY - PLUTONIUM DIOXIDE HEAT SOURCES. 23-9

DELAY
DELAY LINE READOUT OF ANODE PLANES IN PROPORTIONAL CHAMBERS. 19-3

DELTA
EVIDENCE FOR THE EXISTENCE OF FAULTING IN A SPLAT COOLED DELTA PLUTONIUM(TITANIUM) ALLOY. 9-10

EFFECT OF STRAIN RATE ON THE TENSILE PROPERTIES OF ALPHA AND DELTA STABILIZED PLUTONIUM. 23-14

HEAT OF COMBUSTION OF DELTA PLUTONIUM. 23-24

NEW HIGH PRECISION MEASUREMENT OF THE MUONIUM HYPERFINE STRUCTURE INTERVAL DELTA NU. 25-137

PRECISION MEASUREMENT OF 1S(1/2) MUONIUM HYPERFINE STRUCTURE INTERVAL DELTA NU 2. RESULTS. 25-178

INELASTIC PROTON SCATTERING AS A TEST OF SURFACE DELTA WAVE FUNCTIONS 25-98

DEMAGNETIZATION
USE OF ADIABATIC DEMAGNETIZATION TO MEASURE THE ELECTRIC FIELD GRADIENT IN CADMIUM 8-57

DEMANDS
PROPOSED FEDERAL HELIUM CONSERVATION POLICY AS RELATED TO THE HELIUM DEMANDS OF ENERGY RELATED NEW TECHNOLOGIES. 30-67

DEMOLITION
DEMOLITION OF BUILDING 12. AN OLD PLUTONIUM FILTER FACILITY. 17-8

DEMOLITION OF BUILDING 12. AN OLD PLUTONIUM FILTER FACILITY 17-9

DEMONSTRATION
SOLAR WIND STREAM EVOLUTION AT LARGE HELIOCENTRIC DISTANCES: EXPERIMENTAL DEMONSTRATION AND THE TEST OF A MODEL. 1-26

DENSE
MOLECULAR EQUATIONS OF STATE FOR DENSE DUST CLOUDS 3-27

DYNAMICS OF THE DENSE PLASMA FOCUS AS DETERMINED FROM AN ANALYSIS OF LASER SCATTERING SPECTRA. 10-23

EXPLODING LINER INITIATED DENSE Z PINCH. 10-37

LASER INDUCED INSTABILITIES AND ANOMALOUS ABSORPTION IN DENSE PLASMAS 20-76

GAUSSIAN ELIMINATION FOR DENSE SYSTEMS ON STAR AND A NEW PARALLEL ALGORITHM FOR DIAGONALLY DOMINANT TRIDIAGONAL SYSTEMS. 21-36

DENSITIES
CRITICAL CURRENT DENSITIES IN NIOBIUM(3) GERMANIUM BETWEEN 14 AND 21 DEGREES KELVIN 8-8

DENSITOMETRY
TOTAL PLUTONIUM AND URANIUM DETERMINATION BY GAMMA RAY DENSITOMETRY. 26-28

DENSITY
USE OF TWO ANGLE ELASTIC AND RAMAN SCATTERING TO OBTAIN MOLECULAR DENSITY AND AEROSOL SCATTERING PROFILES. 1-31

ENERGY DENSITY OF THE RELIC RADIATION. 1-7

NEUTRON STAR MODELS WITH REALISTIC HIGH DENSITY EQUATIONS OF STATE. 3-28

DENSITY SENSITIVE LINES OF HIGHLY IONIZED IRON. 4-13

PROCEDURE FOR THE RAPID LYSIS OF MAMMALIAN CELLS PRIOR TO ALKALINE SUCROSE DENSITY GRADIENT CENTRIFUGATION. 5-119

PLASMA EXPERIMENTS ON THE HIGH DENSITY SCYLLA I-C THETA PINCH. 10-101

CTR APPLICATIONS OF THE HIGH DENSITY LINEAR THETA PINCH. 10-15

HETERODYNE INTERFEROMETRY PLASMA DENSITY MEASUREMENT. 10-47

HIGH DENSITY LINEAR SYSTEMS FOR FUSION POWER. 10-48

IMPLOSION MEASUREMENTS IN A HIGH VOLTAGE, LARGE DIAMETER, MEDIUM DENSITY THETA PINCH. 10-57

CHARACTERISTICS OF HIGH DENSITY THETA PINCHES SEEDED WITH SELECTED HIGH Z ELEMENTS. 10-6

MAGNETIC FIELD AND PLASMA DENSITY MEASUREMENTS IN THE STAGED THETA PINCH EXPERIMENT. 10-77

HIGH DENSITY METALS AND METALLIC COMPOSITES FOR IMPROVED FRAGMENTATION SUBMUNITIONS. 23-27

CAPSULE STORAGE AND DENSITY - ANALOG TECHNIQUES. 24-4

PHOTON PROPAGATION IN NUCLEAR MATTER AND THE CORRECTION TO THE THEORETICAL NUCLEAR CHARGE DENSITY. 25-164

ENERGY LEVELS AND LEVEL DENSITY IN NEODYMIUM -144. 25-65

POWER DENSITY ASYMMETRIES IN COUPLED CORE REACTOR SYSTEMS. 30-84

TIME DENSITY STUDY OF WATER IN KIWI-B4 FUEL ELEMENTS WITH VARYING IMPACT VELOCITIES. 30-91

DEOXYCYTIDINE
LACK OF SPECIFIC CORRELATION OF THE DEOXYCYTIDINE TRIPHOSPHATE POOL LEVEL WITH RATE OF DNA SYNTHESIS 5-91

DEPENDENCE
IMPLIED TEMPERATURE DEPENDENCE OF THE GRUNEISEN PARAMETER 4-30

DEPENDENCE OF THE SECOND EXPLOSION LIMITS OF HYDROGEN - FLUORINE - OXYGEN -HYDROGEN FLUORIDE MIXTURES ON A HOT ATOM EFFECT. 6-5

TEMPERATURE AND CURRENT DEPENDENCE OF THE MAGNETIC FIELD PROFILES OF NIOBIUM(3)TIN TAPES CARRYING A CURRENT. 8-52

NEUTRON ENERGY DEPENDENCE OF DEFECT PRODUCTION CROSS SECTIONS IN COPPER AND ALUMINUM. 10-84

ENERGY DEPENDENCE OF FOUR NEUTRON REMMETER INSTRUMENTS. 17-18

DEPENDENCE OF LITHIUM DRIFTED GERMANIUM DETECTOR EFFICIENCY SLOPE ON SOURCE TO DETECTOR DISTANCE. 19-4

TIME DEPENDENCE OF ROTATIONAL TEMPERATURE IN A HIGH PRESSURE PULSED CARBON DIOXIDE LASER. 20-155

MASS NUMBER DEPENDENCE OF THE PION -NUCLEUS SCATTERING LENGTHS. 25-109

DEPENDENCE OF THE OFF ENERGY SHELL T MATRIX ON THE TOTAL THREE MOMENTUM. 25-45

DEPENDENT
CELL CYCLE DEPENDENT PHOSPHORYLATION OF DIFFERENT REGIONS OF F1 HISTONE. 5-23

CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES 5-24

CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES. 5-25

CELL CYCLE DEPENDENT SURFACE CHANGES IN CHINESE HAMSTER CELLS GROWN IN SUSPENSION CULTURE. 5-26

TIME DEPENDENT SOLUTION TO INTERSTITIAL DIFFUSION IN A TEMPERATURE GRADIENT. 7-24

EXPLANATION OF AN OBSERVED DIRECTION DEPENDENT SUPERFLUID FLOW. 8-17

TIME DEPENDENT CALCULATIONS OF EQUILIBRIUM AND STABILITY PROBLEMS IN SCYLLAC AND TOKAMAK GEOMETRIES. 10-149

TIME DEPENDENT DETONATIONS. 15-28

TIME DEPENDENT TURBULENT MIXING. 18-51

TEMPERATURE DEPENDENT ABSORPTION SPECTRUM OF THE NU(3) BAND OF SULFUR HEXAFLUORIDE AT 10.6 MICRONS. 20-150

TEMPERATURE DEPENDENT ORDINARY AND THERMAL DIFFUSION OF TRITIUM THROUGH METAL BARRIERS. 20-151

BAYESIAN RELIABILITY ESTIMATION: STATE OF THE ART FOR THE TIME DEPENDENT CASE. 21-10

NUMERICAL EVALUATION OF THE AZIMUTHALLY DEPENDENT ALBEDO PROBLEM IN SLAB GEOMETRY. 21-55

ANALYSIS OF SOME GALERKIN SCHEMES FOR THE SOLUTION OF NONLINEAR TIME DEPENDENT PROBLEMS. 21-6

LINEAR DISCONTINUOUS FINITE ELEMENT SCHEME IN TIME DEPENDENT TRANSPORT CALCULATIONS. 24-13

CHIRAL SYMMETRY AND PION CONDENSATION. 1. MODEL DEPENDENT RESULTS. 25-29

FOLDED DIAGRAM THEORY, TIME DEPENDENT APPROACH OF JOHNSON AND BARANGER. 25-81

TIME DEPENDENT BEHAVIOR IN ELECTRON HOLE CONDENSATION. 27-18

FREE SPACE BOUNDARY CONDITIONS FOR THE TIME DEPENDENT WAVE EQUATION. 27-7

DEPOLARIZATION
DEPOLARIZATION OF NEGATIVE MUONS IN LIQUID HELIUM. 25-46

DEPOSITED
LOW TEMPERATURE THERMAL AND ELECTRICAL PROPERTIES OF CHEMICAL VAPOR DEPOSITED NIOBIUM(3)GERMANIUM. 23-34

DEPOSITION
PREPARATION OF HIGH T(C) NIOBIUM(3) GERMANIUM SUPERCONDUCTORS BY CHEMICAL VAPOR DEPOSITION. 8-37

CHARGED PARTICLE MASS AND ENERGY DEPOSITION IN A THERMONUCLEAR PLASMA. 10-7

ENERGY DEPOSITION IN A TWO DIMENSIONAL LCTR MODEL. 20-37

ENERGY DEPOSITION RATES IN A LASER -FUSION REACTOR. 20-38

LASER - FUSION TARGET FABRICATION: APPLICATION OF A POLYMERIC ABLATOR COATING TO A BALL AND DISK TARGET DESIGN BY THE PHYSICAL VAPOR DEPOSITION OF POLYETHYLENE 20-66

MICROSPHERICAL LASER TARGETS BY CHEMICAL VAPOR DEPOSITION 20-94

HIGH RATE PHYSICAL VAPOR DEPOSITION OF REFRACTORY METALS 23-29

CHEMICAL VAPOR DEPOSITION OF TUNGSTEN. 23-5

YIELD STRENGTH OF FINE GRAINED VANADIUM PRODUCED BY HIGH RATE PHYSICAL VAPOR DEPOSITION. 23-64

DEPTH
CELL SURVIVAL AS A FUNCTION OF DEPTH FOR NEGATIVE PIONS AND HEAVY IONS. 5-30

CINDER CONE SEPARATION DISTANCES: IMPLICATIONS FOR THE DEPTH OF FORMATION OF GABBROIC XENOLITHS. 11-8

DOME DEPTH ABOVE A DEPTH CHARGE IN WATER 15-5

DOME DEPTH ABOVE A DEPTH CHARGE IN WATER. 15-5

OPTICAL METHODS IN ENERGY CONVERSION, SPIE SEMINAR IN DEPTH, ROCHESTER, 23-25 JUNE 1975 20-110

DEPTHS
SURVIVAL OF CULTURED MAMMALIAN CELLS IRRADIATED AT VARIOUS DEPTHS IN THE LAMPF NEGATIVE PION THERAPY BEAM. 5-139

DERATED
SCYLLAC DERATED FEEDBACK SECTOR EXPERIMENTS. 10-118

DERIVATION
FORMAL DERIVATION OF EFFECTIVE SPIN HAMILTONIANS FOR MACROSCOPIC MAGNETIC INSULATOR SYSTEMS. 4-24

DERIVATIVES
COMPARATIVE EFFECTS OF THREE NITROSUREA DERIVATIVES ON MAMMALIAN CELL CYCLE PROGRESSION. 5-42

PICRYL DERIVATIVES OF BENZO (1,2-D:4,5-D') BISTRIAZOLE AND BENZO (1,2-D:4,5-D') BISTRIAZOLE -4,8- DIONE. 15-19

DESIGN
PRELIMINARY DESIGN AND PERFORMANCE OF AN ADVANCED GAMMA RAY SPECTROMETER FOR FUTURE ORBITER MISSIONS. 3-35

MEDICAL LINAC DESIGN POSSIBILITIES. 5-97

DESIGN AND PERFORMANCE OF TWO 10 KA SUPERCONDUCTING SWITCHES. 8-10

DESIGN OF A FORCE FREE INDUCTIVE STORAGE COIL. 8-11

SCYLLAC FUSION TEST REACTOR DESIGN. 10-121

DESIGN OF THE ZT-1 TOROIDAL PINCH EXPERIMENT. 10-18

ENGINEERING DESIGN OF A LINEAR THETA PINCH HYBRID REACTOR (LTPHR). 10-31

NUCLEONIC DESIGN SENSITIVITY ANALYSIS FOR THE REFERENCE THETA PINCH REACTOR (RTPR). 10-86

CONTROL SYSTEM DESIGN AND SIMULATION FOR A SOLAR HEATED AND COOLED BUILDING. 12-3

DESIGN CONSIDERATIONS OF AIR COOLED COLLECTOR/ROCK-BIN STORAGE SOLAR HEATING SYSTEMS. 12-4

DESIGN OF CONTROLS FOR A SOLAR HEATED BUILDING. 12-5

DESIGN OF VENTILATION AND AIR CLEANING SYSTEMS FOR THE NEW LOS ALAMOS PLUTONIUM FACILITY. 17-10

VENTILATION DESIGN MODIFICATIONS AT LOS ALAMOS SCIENTIFIC LABORATORY MAJOR PLUTONIUM OPERATIONAL AREAS. 17-61

CONCEPTUAL DESIGN OF A THETA PINCH POWER PLANT. 19-2

OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 1. CANTED AND PARALLEL MIRRORS. 20-107

OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 2. PARALLEL MIRRORS, MULTITRAVEL. 20-108

OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 3. ASYMMETRIC CONFOCAL RESONATOR. 20-109

VERY HIGH INTENSITY REACTION CHAMBER DESIGN. 20-163

LASER - FUSION TARGET FABRICATION: APPLICATION OF A POLYMERIC ABLATOR COATING TO A BALL AND DISK TARGET DESIGN BY THE PHYSICAL VAPOR DEPOSITION OF POLYETHYLENE. 20-66

COMPUTER AIDED DESIGN OF ELECTRONIC CIRCUITRY. 21-18

COMPUTERIZED INVENTORY/DESIGN SYSTEM FOR GRAPHITE MOLDS. 21-23

INTERACTIVE GRAPHICS SYSTEM FOR MECHANICAL DRAFTING AND DESIGN 21-42

DESIGN OF THE LAMPF LOW ENERGY PION CHANNEL 22-10

100 MHZ POWER AMPLIFIER DESIGN AND CONTROL FOR A HEAVY ION ACCELERATOR 27-1

DESIGN STUDIES OF HEAVY ION LINEAR ACCELERATORS CONSTRUCTED OF INDEPENDENTLY PHASED SPIRAL RESONATORS. 27-3

PINTEMP A COMPUTER PROGRAM FOR FUEL ELEMENT DESIGN CALCULATIONS 28-25

PRESTRESSED CONCRETE REACTOR VESSELS: REVIEW OF DESIGN AND FAILURE CRITERIA 28-30

CONCEPTUAL DESIGN FOR A FAST REACTOR SAFETY TEST FACILITY PRELIMINARY REPORT 28-7

DESIGN FOR A ROTARY REACTIVITY CONTROL FOR A TEST REACTOR 28-9

DESIGN CRITERIA (REVISED) FOR TRANSURANIC CONTAMINATED SOLID WASTE TREATMENT DEVELOPMENT FACILITY 30-18

DESIGNATE
PROPOSAL TO DESIGNATE CERTAIN LAND AREAS OF THE LOS ALAMOS SCIENTIFIC LABORATORY AS A NATIONAL ENVIRONMENTAL RESEARCH PARK 30-66

DESIGNS
STRUCTURED FUSION TARGET DESIGNS 20-145

COMPUTER GRAPHICS 118 COMPUTER GENERATED DESIGNS 21-19

DESTINATION
PIT CATALOG: DESTINATION KIT. 30-62

DESTRUCTION
DIRECTIONAL EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT. 8-13

INVESTIGATION OF THE SOURCES OF ASYMMETRY EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT IN TYPE II TANTALUM WIRES 8-20

OBSERVATION OF ASYMMETRY EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT IN TYPE II TANTALUM WIRES 8-32

DETACHMENT
COMPLEX CARBOHYDRATES OF A DETACHMENT VARIANT SUBLINE OF CHO CELLS 5-44

DETECTED
CELL CYCLE SPECIFIC CHANGES IN ORGANIZATION OF CHROMATIN DETECTED BY POLYANION MEDIATED CHROMATIN DECONDENSATION. 5-27

DETECTION
METHOD FOR DETECTION OF TRICHINELLAE. 5-100

PHYSICAL METHODS FOR RAPID ON-LINE DETECTION OF TRICHINELLA IN PORK. 5-112

IMPACT OF ELECTRONIC IDENTIFICATION AND DISEASE DETECTION ON THE ROLE OF THE VETERINARIAN. 5-77

SPOT TEST LIMIT OF DETECTION VALUES FOR CARCINOGENIC AROMATIC AMINES AND THEIR HOMOLOGUES AND ANALOGUES. 17-57

POSSIBLE DETECTION OF ATOMIC BOMB EXPLOSION BY PRESSURE MEASUREMENTS AT THE ANTIPODES. 30-63

DETECTOR
DIGITAL TELEVISION CAMERA FOR A THOMSON SCATTERING DETECTOR. 10-21

DEPENDENCE OF LITHIUM DRIFTED GERMANIUM DETECTOR EFFICIENCY SLOPE ON SOURCE TO DETECTOR DISTANCE. 19-4

DEPENDENCE OF LITHIUM DRIFTED GERMANIUM DETECTOR EFFICIENCY SLOPE ON SOURCE TO DETECTOR DISTANCE. 19-4

ENERGETIC PARTICLE DETECTOR FOR A SYNCHRONOUS SATELLITE. 19-6

THIN FILM DETECTOR SYSTEM FOR LASER -FUSION STUDIES. 20-154

DEVELOPMENT OF AN ALPHA PARTICLE AND PROTON DETECTOR FOR LASER - FUSION STUDIES. 20-23

PERFORMANCE OF THE LASL Q3D SPECTROMETER AND HELIX DETECTOR SYSTEM. 25-157

Q3D SPECTROMETER WITH A HELIX DETECTOR SYSTEM. 25-186

MOISTURE DETECTOR FOR THE PRIMARY LOOP OF GAS COOLED REACTORS. 28-23

DETECTORS
ANALYSIS OF A SCORPIUS X-1 X RAY SPECTRUM OBTAINED WITH COOLED SILICON (LI) DETECTORS. 3-3

FABRICATION AND CALIBRATION OF THIN PLASTIC SCINTILLATOR X RAY DETECTORS. 19-7

DETONATION
PLANE SHOCK INITIATION OF DETONATION COMPUTER SIMULATION OF GAS GUN EXPERIMENT 15-20

DAMAGE TO LENGTHS OF PRIMACORD BY DETONATION OF NEARBY LENGTHS 15-1

EFFECT OF VARIABLE E. TROPY IN THE THEORY OF SPHERICALLY CONVERGENT DETONATION WAVES 15-8

DETONATION OF HIGH EXPLOSIVES IN LAGRANGIAN HYDRODYNAMIC CODES USING THE PROGRAMMED BURN TECHNIQUE 18-9

DETONATIONS
NONSTEADY STATE DETONATIONS IN ONE DIMENSIONAL PLANE, DIVERGING, AND CONVERGING GEOMETRIES 15-18

TIME DEPENDENT DETONATIONS 15-28

DEUTERIUM
SELF CONSISTENT PHONON CALCULATIONS AND EQUATIONS OF STATE OF SOLID HYDROGEN AND DEUTERIUM 4-60

ABSTRACTION VERSUS EXCHANGE IN THE REACTION OF HYDROGEN WITH DEUTERIUM BROMIDE 6-1

PARADOX THE THERMAL RATE COEFFICIENT FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION 6-13

PARADOX THE THERMAL RATE COEFFICIENT FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION 6-13

QUASICLASSICAL TRAJECTORY STUDY OF THE MOLECULAR BEAM KINETICS OF THE DEUTERIUM ATOM - HYDROGEN HALIDE EXCHANGE REACTION 6-15

NEUTRON DIFFRACTION STUDIES OF DEUTERIUM - SOLID STRUCTURES AND TRANSITIONS 9-14

DEUTERIUM - TRITIUM FUSION REACTOR ACTIVATION AND AFTERHEAT 10-19

DEUTERIUM FLOW LOOP FOR A SUPERSONIC GAS TARGET INTENSE NEUTRON SOURCE 10-20

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS 2 PHOTONUCLEAR (DEUTERIUM-GAMMA,NEUTRON) METHOD 20-100

TAMPED THERMONUCLEAR BURN OF DEUTERIUM -TRITIUM MICROSPHERES 20-149

COMPUTER SIMULATION OF A DEUTERIUM -TRITIUM PELLET MICROEXPLOSION IN A MAGNETICALLY PROTECTED LASER FUSION REACTOR 20-20

ALPHA PARTICLE ENERGY ABSORPTION IN A REACTING DEUTERIUM TRITIUM SPHERE 20-3

FABRICATION OF LITHIUM DEUTERIUM (0.5) TRITIUM (0.5) MICROSPHERES FOR USE AS LASER FUSION TARGETS 20-43

FREEZING AND MELTING DEUTERIUM IN MICROBALLOONS 20-45

HYDRODYNAMICS AND BURN OF OPTIMALLY IMPLODED DEUTERIUM - TRITIUM SPHERES 20-51

LASER DRIVEN IMPLOSION OF SPHERICAL DEUTERIUM - TRITIUM TARGETS TO THERMONUCLEAR BURN CONDITIONS 20-68

NEUTRON ENERGY AND VELOCITY DISTRIBUTIONS FROM THERMAL DEUTERIUM TRITIUM REACTIONS 25-129

NEUTRON SPECTRA FROM PROTON BOMBARDMENT OF DEUTERIUM AT 647 AND 800 MEV 25-134

NON-EIKONAL APPROACH TO THE SCATTERING OF HADRONS FROM NUCLEI 2 PROTON AND PION SCATTERING FROM DEUTERIUM, HELIUM -3 AND HELIUM -4 25-139

DEUTERON
USE OF LITHIUM (DEUTERON,NEUTRON) NEUTRONS FOR SIMULATION OF RADIATION EFFECTS IN FUSION REACTORS. 10-154

DISTORTED PERIPHERAL CROSS SECTIONS FOR DEUTERON (PI+,2PROTON). 22-11

PI MESON ABSORPTION ON THE DEUTERON. 22-40

ANGULAR DISTRIBUTION OF POLARIZATION TRANSFER IN HYDROGEN (2DEUTERON,PROTON) HYDROGEN -3. 25-10

QUASIFREE PION PRODUCTION AS SEEN IN NEUTRON - DEUTERON REACTIONS WITH A FINAL FAST DEUTERON. 25-190

QUASIFREE PION PRODUCTION AS SEEN IN NEUTRON - DEUTERON REACTIONS WITH A FINAL FAST DEUTERON. 25-190

SOME TOPICS CONCERNING NEUTRON - NEUTRON AND NEUTRON - DEUTERON EXPERIMENTS AT MEDIUM ENERGY. 25-206

TRITIUM (DEUTERON,NEUTRON) HELIUM -4 AND TRITIUM (TRITON,2NEUTRON) CROSS SECTIONS AT LOW ENERGIES. 25-227

CALCIUM -41 (DEUTERON,TRITON) AND (DEUTERON,H) REACTIONS. 25-24

CROSS SECTIONS FOR DEUTERON (PI+,2PROTON) WITH DISTORTED PROTONS 25-42

DEUTERON - DEUTERON TOTAL SCATTERING CROSS SECTIONS IN THE VELOCITY RANGE 950-2250 M/SEC 25-47

DEUTERON - DEUTERON TOTAL SCATTERING CROSS SECTIONS IN THE VELOCITY RANGE 950-2250 M/SEC 25-47

EFFECT OF SHORT RANGED UNITARY TRANSFORMS ON THE RATE OF THE REACTION NEGATIVE PION PLUS DEUTERON GOES TO GAMMA RAY PLUS TWO NEUTRONS 25-52

EXPERIMENTAL STUDY OF THE PI+ + DEUTERON TO PROTON + PROTON REACTION AT PION ENERGIES OF 40, 50, AND 60 MEV 25-77

DEUTERONS
OPTICAL MODEL POTENTIALS FOR DEUTERONS TRITONS AND HELIONS 25-150

RADIOCHEMICAL STUDIES OF SOME LOW AND MEDIUM ENERGY NUCLEAR REACTIONS PRODUCED BY ACCELERATED TRITONS, DEUTERONS, AND PROTONS 25-194

DEVICE
ECONOMIC AND SYSTEM ASPECTS OF A SUPERCONDUCTING MAGNETIC ENERGY STORAGE DEVICE AND A DC SUPERCONDUCTING TRANSMISSION LINE 8-14

OPTICAL DIAGNOSTICS OF THE SCYLLAC CTR DEVICE A CASE STUDY 10-94

TIME OF FLIGHT NEUTRON SPECTROSCOPY USING APPROXIMATELY 20 METER FLIGHT PATHS TO A NUCLEAR DEVICE 25-223

DEVICES
ROLE OF FAST DISCHARGING HOMOPOLAR MACHINES IN FUSION DEVICES 10-116

REVIEW OF GEOTHERMAL WELL TECHNOLOGY AND THE POTENTIAL APPLICATIONS OF SUBTERRENE ROCK MELTING DEVICES 13-46

IMPROVED HOT WIRE ELECTROEXPLOSIVE DEVICES 15-14

PERSONAL PROTECTIVE DEVICES 17-40

DI-MU
DI-MU-(PYRIDINE OXIDE) BIS(DICHLORO (DIMETHYL SULFOXIDE)COPPER(II) 7-4

DIACETYL
PROCESS FOR PRODUCING 1,5 DIACETYL 3,7 DINITRO 1,3,5,7 TETRAAZOCYCLOOCTANE 15-21

DIAGNOSES
DIAGNOSES OF DISEASE STATES BY FLUORESCENT MEASUREMENTS UTILIZING SCANNING LASER BEAMS 5-52

DIAGNOSTICS
OPTICAL DIAGNOSTICS OF THE SCYLLAC CTR DEVICE A CASE STUDY 10-94

OPTICAL DIAGNOSTICS ON SCYLLAC 10-95

MICRO-CHANNEL PLATE COLLIMATORS FOR LASER PLASMA DIAGNOSTICS 20-93

DIAGONALLY
GAUSSIAN ELIMINATION FOR DENSE SYSTEMS ON STAR AND A NEW PARALLEL ALGORITHM FOR DIAGONALLY DOMINANT TRIDIAGONAL SYSTEMS 21-36

DIAGRAM
FOLDED DIAGRAM THEORY, TIME DEPENDENT APPROACH OF JOHNSON AND BARANGER 25-81

DIAGRAMS
EMF'S ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM: BARE ELECTRODE EFFECTS, USE OF N UNEQUAL TO 2, PREMONITORY PHENOMENA AND LIQUID STRUCTURE IN GOLD -CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS. 7-5

DIAMETER
IMPLOSION MEASUREMENTS IN A HIGH VOLTAGE, LARGE DIAMETER, MEDIUM DENSITY THETA PINCH. 10-57

DIATOMIC
ON THE PREFERENCE FOR VIBRATIONAL ENERGY IN DIATOMIC DISSOCIATION. 4-46

REACTIONS OF DIATOMIC RARE GAS IONS WITH RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 50 EV. 4-54

DICADMIUM
EMF'S ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM: BARE ELECTRODE EFFECTS, USE OF N UNEQUAL TO 2, PREMONITORY PHENOMENA AND LIQUID STRUCTURE IN GOLD -CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS. 7-5

DICHLORO
DI-MU-(PYRIDINE OXIDE)- BIS(DICHLORO (DIMETHYL SULFOXIDE)COPPER(II). 7-4

DETERMINATION OF 3,3'- DICHLORO -4,4'-DIAMINODIPHENYLMETHANE IN AIR. 17-11

DICHLORODIOXOMANGANE
ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF DICHLORODIOXOMANGANESE(VI) 4-18

DICHROISM
CIRCULAR DICHROISM SPECTRA OF POLY D(AC)-D(GT)*, POLY R(AC)-R(GU)*, AND HYBRIDS POLY D(AC)-R(GU)* AND POLY R(AC)-D(GT)* IN THE PRESENCE OF ETHANOL 5-40

DIDEUTERIUM
SPECTRAL ACCEPTANCE FOR SECOND HARMONIC GENERATION IN CD*A (CESIUM DIDEUTERIUM ARSENATE) 20-137

DIELECTRIC
INFLUENCE OF STANDING WAVE FIELDS ON THE LASER DAMAGE RESISTANCE OF DIELECTRIC FILMS 20-56

DIETHYL
COPRECIPITATION OF URANIUM AND PLUTONIUM OXALATES USING SODIUM FORMALDEHYDE SULFOXYLATE REDUCTION AND DIETHYL OXALATE HYDROLYSIS PRECIPITATION 2-7

DIFFERENCE
PULSED INFRARED DIFFERENCE FREQUENCY GENERATION IN CADMIUM - GERMANIUM -ARSENIC(2). 20-125

COMPARING CERTAIN CLASSES OF DIFFERENCE AND FINITE ELEMENT SCHEMES FOR A HYPERBOLIC PROBLEM. 21-17

PERSPECTIVE DISPLAYS FOR THREE DIMENSIONAL FINITE DIFFERENCE CALCULATIONS 21-64

HYDROGEN -3 - HELIUM -3 BINDING ENERGY DIFFERENCE AND POSSIBLE CHARGE ASYMMETRY EFFECTS IN THE NUCLEON - NUCLEON FORCE. 25-95

DIFFERENTIAL
DIFFERENTIAL EFFECTS OF TWO CHEMOTHERAPEUTIC AGENTS, STREPTOZOTOCIN AND CHLOROZOTOCIN, ON THE MAMMALIAN CELL CYCLE. 5-54

FRACTIONAL FRINGE TIME DIFFERENTIAL HOLOGRAPHIC INTERFEROMETRY 10-41

DIFFERENTIAL NUCLEAR OVERHAUSER ENHANCEMENT FOR CARBON -13 SINGLET AND CARBON -13 - CARBON -13 MULTIPLET RESONANCES OF A CARBOXYL CARBON. 14-6

ON THE MULTIPLICITY OF SOLUTIONS OF A DIFFERENTIAL EQUATION ARISING IN CHEMICAL REACTOR THEORY. 21-60

SIGNIFICANCE ARITHMETIC APPLICATION TO A PARTIAL DIFFERENTIAL EQUATION 21-73

CONSISTENCY AMONG DIFFERENTIAL NUCLEAR DATA AND INTEGRAL OBSERVATIONS: THE ALVIN CODE FOR DATA ADJUSTMENT, FOR SENSITIVITY CALCULATIONS, AND FOR IDENTIFICATION OF INCONSISTENT DATA 25-36

DIFFERENTIAL CROSS SECTIONS FOR COHERENT PHOTON SCATTERING BY ELEMENTS Z=2 THROUGH Z=26. 25-48

DIFFERENTIAL CROSS SECTIONS FOR GAMMA RAYS FROM IRON FOR INCIDENT NEUTRONS OF 8.5, 10.0, 12.2, AND 14.2 MEV. 25-49

DIFFRACTION
NEUTRON DIFFRACTION STUDIES OF DEUTERIUM - SOLID STRUCTURES AND TRANSITIONS. 9-14

NEUTRON DIFFRACTION STUDY OF HEXAAMMINE D3 CALCIUM(0) AT 75 DEGREES KELVIN. 9-15

COHERENT INELASTIC ELECTRON SCATTERING IN LEED (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF ARSENIC(0001). 9-5

CRYSTAL STRUCTURE OF PRASEODYMIUM(7) OXYGEN(12) BY POWDER NEUTRON DIFFRACTION. 9-8

DIFFRACTION EFFECTS AND OPTICAL QUALITY IN THE MULTISTAGE AMPLIFICATION OF NANOSECOND CARBON DIOXIDE PULSES. 20-24

DIFFUSE
STABILITY OF A DIFFUSE, HIGH BETA, L = 1 SYSTEM. 10-133

EQUILIBRIUM AND STABILITY OF HIGH BETA DIFFUSE TOKAMAKS. 10-34

MHD SPECTRUM OF DIFFUSE TOKAMAK EQUILIBRIA. 10-80

DIFFUSION
DIFFUSION ANALYSES FOR SYSTEMS OF SPHERICAL PARTICLES. 2-12

COLLISIONS OF NEON*(3S) AND NEON(+) WITH NEON. EXCITATION AND CHARGE TRANSFER, ELASTIC SCATTERING, AND DIFFUSION. 4-9

IMMUNODIFFUSION IN GELS CONTAINING ERYTHROCYTE ANTIGEN. 1. THEORY FOR DIFFUSION OF ANTISERUM FROM A CIRCULAR WELL. 5-76

TIME DEPENDENT SOLUTION TO INTERSTITIAL DIFFUSION IN A TEMPERATURE GRADIENT. 7-24

STABILITY AND DIFFUSION OF THE ZT-1 REVERSED FIELD PINCH. 10-130

HYBRID MODEL STUDIES OF MAGNETIC FIELD DIFFUSION IN HIGH BETA PINCHES. 10-52

NUMERICAL MODELING OF MAGNETIC IMPLOSION HEATING AND FIELD DIFFUSION IN PINCHES. 10-87

DIFFUSION OF A PASSIVE SCALAR AT LARGE PRANDTL NUMBER ACCORDING TO THE ABRIDGED LAGRANGIAN INTERACTION THEORY. 18-10

STIMULATED DIFFUSION SCATTERING IN IONOSPHERIC MODIFICATION. 20-142

TEMPERATURE DEPENDENT ORDINARY AND THERMAL DIFFUSION OF TRITIUM THROUGH METAL BARRIERS. 20-151

ON THE DIFFUSION OF DIVALENT IMPURITIES IN ALUMINUM. 23-43

GENERALIZED DIFFUSION THEORY FOR CALCULATING THE NEUTRON TRANSPORT SCALAR FLUX. 24-12

DIGESTION
RAPID DIGESTION PROCESS FOR DETERMINATION OF TRICHINELLAE IN MEAT 5-122

DIGITAL
DIGITAL ENHANCEMENT OF BIOMEDICAL RADIOGRAPHS. 5-55

DIGITAL TELEVISION CAMERA FOR A THOMSON SCATTERING DETECTOR. 10-21

NOISE IMMUNITY IN DIGITAL COMMUNICATION BY USE OF ORTHOGONAL SIGNAL CORRELATION AND WALSH FUNCTIONS. 19-15

DIGITAL IMAGE PROCESSING. 21-29

DIGITAL INTERFACE FOR FIELD REGULATED MAGNETS. 21-30

HYBRID DIGITAL/OPTICAL SYSTEMS FOR NONLINEAR IMAGE RESTORATION. 21-40

SCAN AND DISPLAY CONSIDERATIONS IN PROCESSING IMAGES BY DIGITAL COMPUTER. 21-71

SURVEY OF THE STATE OF THE ART OF FAST SINGLE TRANSIENT ANALOG TO DIGITAL CONVERTER TECHNIQUES. 21-78

DIGITIZING
HIGH SPEED DIGITIZING WITH CAMAC. 20-50

DILUTE
SPONTANEOUS MAGNETIC ORDER IN EXTREMELY DILUTE GOLD - IRON ALLOYS. 8-42

DIMENSIONAL
TWO DIMENSIONAL STABILITY OF AN ELECTROMAGNETIC WAVE OBLIQUELY INCIDENT ON A NONUNIFORM PLASMA. 10-153

FLUTE INSTABILITIES IN TWO DIMENSIONAL SIMULATIONS OF STRONGLY INHOMOGENEOUS THETA PINCH PLASMAS. 10-40

COMPARISON OF THREE TWO DIMENSIONAL ELECTROSTATIC PLASMA SIMULATION MODELS. 10-8

NONSTEADY STATE DETONATIONS IN ONE DIMENSIONAL PLANE, DIVERGING, AND CONVERGING GEOMETRIES. 15-18

DISCHARGE FLOW WITH TWO DIMENSIONAL FLUID MODEL ANALYSIS. 18-11

CALCULATING THREE DIMENSIONAL FLUID FLOWS AT ALL SPEEDS WITH AN EULERIAN-LAGRANGIAN COMPUTING MESH. 18-3

ONE DIMENSIONAL CALCULATIONS OF SHOCK LOADED POLYCRYSTALLINE BERYLLIUM. 18-34

PAD, A ONE DIMENSIONAL LAGRANGIAN HYDROCODE. 18-35

PARTICULATE TRANSPORT IN THREE DIMENSIONAL FLUID FLOWS THROUGH CURVED AND BIFURCATING VESSELS. 18-37

THREE DIMENSIONAL COMPUTER ANALYSIS OF SHOCK LOADS ON A SIMPLE STRUCTURE. 18-49

THREE DIMENSIONAL MULTIBURST SIMULATION USING THE ICED ALE METHOD. 18-50

TWO DIMENSIONAL EFFECTS ON THERMAL OUTPUT. 18-53

TWO DIMENSIONAL FIREBALL CALCULATIONS. 18-54

YOKIFER: A TWO DIMENSIONAL HYDRODYNAMICS AND RADIATION TRANSPORT PROGRAM. 18-56

RAMSES, A TWO DIMENSIONAL, PIC TYPE, LASER PULSE PROPAGATION CODE. 20-128

TWO DIMENSIONAL CALCULATIONS OF ASYMMETRIC LASER FUSION TARGETS USING IRIS. 20-158

TWO DIMENSIONAL LAGRANGIAN LASER PELLET SIMULATION CODE. 20-159

COLLISIONAL DAMPING OF LANGMUIR WAVES IN ONE DIMENSIONAL PLASMA SIMULATIONS. 20-19

ENERGY DEPOSITION IN A TWO DIMENSIONAL LCTR MODEL 20-37

PERSPECTIVE DISPLAYS FOR THREE DIMENSIONAL FINITE DIFFERENCE CALCULATIONS. 21-64

THREE DIMENSIONAL MESH GENERATOR FOR FINITE ELEMENT COMPUTER CODES. 21-81

EFFICIENCY AND POSITION RESOLUTION OF TWO DIMENSIONAL POSITION SENSITIVE MULTIWIRE PROPORTION COUNTERS. 22-12

ONE DIMENSIONAL ELASTIC - PLASTIC CALCULATIONS INVOLVING STRAIN HARDENING AND STRAIN RATE EFFECTS FOR ALUMINUM. 23-44

ONE DIMENSIONAL ELASTIC - PLASTIC CALCULATIONS INVOLVING STRAIN HARDENING AND STRAIN RATE EFFECTS FOR ALUMINUM. 23-45

ONETRAN: A DISCRETE ORDINATES FINITE ELEMENT CODE FOR THE SOLUTION OF THE ONE DIMENSIONAL MULTIGROUP TRANSPORT EQUATION 24-17

ONSET CRITERIA FOR INSULATING ELECTRONIC TRANSITIONS IN THREE DIMENSIONAL SYSTEMS. 27-12

DIMENSIONS
SELF INTERACTING, BOSON, QUANTUM, FIELD THEORY AND THE THERMODYNAMIC LIMIT IN D DIMENSIONS. 21-72

DIMERS
MOSSBAUER STUDY OF RARE GAS MATRIX ISOLATED TELLURIUM -125 DIMERS, TELLURIUM -125 HEXAFLUORIDE, AND TELLURIUM -125 TETRACHLORIDE MOLECULES. 4-40

DIMETHYL
DI-MU-(PYRIDINE OXIDE)- BIS(DICHLORO (DIMETHYL SULFOXIDE)COPPER(II). 7-4

DINITRO
PROCESS FOR PRODUCING 1,5 DIACETYL 3,7 DINITRO 1,3,5,7 TETRAAZOCYCLOOCTANE. 15-21

DIONE
PICRYL DERIVATIVES OF BENZO (1,2-D:4,5-D') BISTRIAZOLE AND BENZO (1,2-D:4,5-D') BISTRIAZOLE -4,8- DIONE. 15-19

DIOXIDE
AXIAL DISTRIBUTIONS OF NIOBIUM -95 AND ZIRCONIUM -95 ISOTOPES IN IRRADIATED URANIUM DIOXIDE - PLUTONIUM DIOXIDE FUEL PINS. 2-3

AXIAL DISTRIBUTIONS OF NIOBIUM -95 AND ZIRCONIUM -95 ISOTOPES IN IRRADIATED URANIUM DIOXIDE - PLUTONIUM DIOXIDE FUEL PINS. 2-3

ON THE (NU(1)-2NU(2)) FERMI RESONANCE LEVELS IN CARBON DIOXIDE. 4-45

REVERSIBLE SULFUR DIOXIDE ADDITION TO COPPER(I) PHOSPHINE COMPLEXES. 7-17

ENTHALPY OF FORMATION OF HAFNIUM DIOXIDE. 7-6

RADIATION EFFECTS ON THE LATTICE CONSTANTS OF SINGLE CRYSTAL ALUMINUM DIOXIDE. 9-19

CRYSTAL DATA FOR TWO POLYMORPHIC FORMS OF PLUTONIUM DIOXIDE (PUOS2). 9-7

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES OCTOBER 1 - DECEMBER 31, 1974 INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-20

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, APRIL 1 - JUNE 30, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS 17-21

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JANUARY 1 - MARCH 31, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-22

PROGRESS REPORT, ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JULY 1 THROUGH SEPTEMBER 30, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-45

OPTICAL QUALITY STUDY OF THE LASL CARBON DIOXIDE LASER AMPLIFIER SYSTEM. 20-111

PARAMETRIC STUDY OF A MULTIBAND CARBON DIOXIDE LASER. 20-114

PEAK IRRADIANCE MEASUREMENTS ON A 10 J, 1 NS, CARBON DIOXIDE LASER. 20-115

ROTATIONAL TEMPERATURE IN A HIGH PRESSURE PULSED CARBON DIOXIDE LASER. 20-134

CARBON DIOXIDE LASER DEVELOPMENT AND ASYMMETRY IN LASER DRIVEN IMPLOSIONS. 20-15

TIME DEPENDENCE OF ROTATIONAL TEMPERATURE IN A HIGH PRESSURE PULSED CARBON DIOXIDE LASER. 20-155

DIFFRACTION EFFECTS AND OPTICAL QUALITY IN THE MULTISTAGE AMPLIFICATION OF NANOSECOND CARBON DIOXIDE PULSES. 20-24

EMITTED ELECTRON SPECTRA FROM PLASMAS PRODUCED WITH NEODYMIUM AND CARBON DIOXIDE LASERS. 20-36

AMPLIFICATION OF MULTILINE/MULTIBAND CARBON DIOXIDE LASER PULSES. 20-4

GAIN RECOVERY AFTER SATURATION IN SHORT PULSE CARBON DIOXIDE AMPLIFIERS 20-46

HIGH ENERGY IONS FROM A CARBON DIOXIDE LASER PRODUCED PLASMA 20-48

HIGH RESOLUTION Q-BRANCH SPECTRUM FOR CARBON DIOXIDE AT 618 MILLIMETERS 20-49

ISOTOPIC ENRICHMENT BY MULTIPLE ABSORPTION OF CARBON DIOXIDE LASER RADIATION. 20-63

ISOTOPIC ENRICHMENT OF SULFUR HEXAFLUORIDE IN SULFUR -34 BY MULTIPLE ABSORPTION OF CARBON DIOXIDE LASER RADIATION. 20-64

LASER FUSION EXPERIMENTS AT LOS ALAMOS PART 2 THE LASL CARBON DIOXIDE SHORT PULSE OSCILLATOR - AMPLIFIER SYSTEM. 20-70

ANOMALOUS DISPERSION EFFECTS ON PULSE PROPAGATION IN HIGH PRESSURE CARBON DIOXIDE AMPLIFIERS. 20-8

LASL 2.5 KILOJOULE CARBON DIOXIDE SHORT PULSE LASER SYSTEM 20-84

MEASUREMENT OF BEAM QUALITY FROM SHORT PULSE CARBON DIOXIDE LASERS. 20-88

METHODS TO REDUCE THE EFFECTS OF SELF LASING AND TARGET REFLECTIONS IN CARBON DIOXIDE LASERS. 20-92

MODELOCKED, MULTILINE PULSED CARBON DIOXIDE OSCILLATOR. 20-96

MULTIBAND CARBON DIOXIDE OSCILLATOR. 20-97

MULTILINE OPERATION OF A CARBON DIOXIDE OSCILLATOR/AMPLIFIER SYSTEM 20-98

MULTILINE SHORT PULSE AMPLIFICATION AND COMPRESSION IN HIGH GAIN CARBON DIOXIDE LASER AMPLIFIER. 20-99

HELIUM EFFECTS IN PLUTONIUM -238 DIOXIDE FUEL FORMS. 23-25

MECHANICAL PROPERTIES OF PLUTONIUM -238 DIOXIDE 23-38

COMPATIBILITY OF CONTAINER MATERIALS WITH PLUTONIUM DIOXIDE. 23-7

DEGRADATION OF PIONEER TYPE TANTALUM ALLOY - PLUTONIUM DIOXIDE HEAT SOURCES. 23-9

PERFORMANCE OF SELECTED NONDESTRUCTIVE ASSAY TECHNIQUES ON LWR (LIGHT WATER REACTOR) (PLUTONIUM,URANIUM) DIOXIDE AND URANIUM DIOXIDE FUEL 26-21

PERFORMANCE OF SELECTED NONDESTRUCTIVE ASSAY TECHNIQUES ON LWR (LIGHT WATER REACTOR) (PLUTONIUM,URANIUM) DIOXIDE AND URANIUM DIOXIDE FUEL. 26-21

DIPLOID
POPULATION ANALYSIS OF ARRESTED HUMAN DIPLOID FIBROBLASTS BY FLOW MICROFLUOROMETRY. 5-116

DIPOLES
TECHNIQUES FOR HIGH PRECISION MAGNETIC FIELD MAPPING OF LARGE AREA DIPOLES 22-51

DIRECT
NEW AND MORE ACCURATE METHOD FOR THE DIRECT MEASUREMENTS OF EARTH TEMPERATURE GRADIENTS IN DEEP BOREHOLES. 11-33

ELECTROCHEMICAL HEAT ENGINES FOR DIRECT ELECTRIC POWER GENERATION AND ENERGY STORAGE. 12-8

MEASUREMENTS OF GAMMA-F/GAMMA-N USING DIRECT REACTION FISSION TECHNIQUES. 16-8

DIRECT EVALUATION OF TRANSIENT SURFACE TEMPERATURES AND HEAT FLUXES. 20-25

DIRECT NUCLEAR PUMPING OF A HELIUM -XENON LASER. 20-26

DIRECT SOLUTION OF THE DISCRETE POISSON EQUATION IN O(N-SQUARED) OPERATIONS. 20-27

ENGINEERING APPLICATIONS OF ADI (ALTERNATING - DIRECT - IMPLICIT) METHODS TO PIECEWISE LINEAR MULTIDIMENSIONAL HEAT TRANSFER 21-31

DIRECT USE OF YOUNG TABLEAU ALGEBRA TO GENERATE THE CLEBSCH-GORDAN COEFFICIENTS OF SU(2)*. 27-4

DIRECTION
EXPLANATION OF AN OBSERVED DIRECTION DEPENDENT SUPERFLUID FLOW. 8-17

ALTERNATING DIRECTION GALERKIN METHODS FOR PARABOLIC AND HYPERBOLIC PROBLEMS ON RECTANGULAR POLYGONS. 21-3

DIRECTIONAL
DIRECTIONAL EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT. 8-13

DIRECTORATE
PROGRESS REPORT RESPIRATOR STUDIES FOR THE AEC DIRECTORATE OF REGULATORY STANDARDS, JANUARY 1 THROUGH JUNE 30, 1974 17-46

DISASSEMBLY
PRELIMINARY TOPICAL REPORT ON COMPARISON REACTOR DISASSEMBLY CALCULATIONS 28-29

DISCHARGE
TRANSIENT FLOW AND EXPANSION OF A PINCH DISCHARGE PLASMA IN SELF INDUCED MAGNETIC FIELDS 10-152

DISCHARGE FLOW WITH TWO DIMENSIONAL FLUID MODEL ANALYSIS. 18-11

DISCHARGING
ROLE OF FAST DISCHARGING HOMOPOLAR MACHINES IN FUSION DEVICES 10-116

DISCONTINUOUS
LINEAR DISCONTINUOUS FINITE ELEMENT SCHEME IN TIME DEPENDENT TRANSPORT CALCULATIONS. 24-13

DISCRETE
DIRECT SOLUTION OF THE DISCRETE POISSON EQUATION IN O(N-SQUARED) OPERATIONS 20-27

ONETRAN A DISCRETE ORDINATES FINITE ELEMENT CODE FOR THE SOLUTION OF THE ONE DIMENSIONAL MULTIGROUP TRANSPORT EQUATION 24-17

DISCRETE ORDINATE TO SPHERICAL HARMONIC CONVERSIONS FOR RAY EFFECT MITIGATION IN X-Y GEOMETRY. 24-9

DISEASE
RAPID DISEASE SCREENING WITH ENZYME LABELED ANTIBODIES. 5-123

DIAGNOSES OF DISEASE STATES BY FLUORESCENT MEASUREMENTS UTILIZING SCANNING LASER BEAMS. 5-52

IMPACT OF ELECTRONIC IDENTIFICATION AND DISEASE DETECTION ON THE ROLE OF THE VETERINARIAN. 5-77

DISINTEGRATION
DISINTEGRATION OF HELIUM -3 BY FAST NEUTRONS. 27-5

DISK
LASER - FUSION TARGET FABRICATION: APPLICATION OF A POLYMERIC ABLATOR COATING TO A BALL AND DISK TARGET DESIGN BY THE PHYSICAL VAPOR DEPOSITION OF POLYETHYLENE. 20-66

DISKS
GAMMA RAY BURSTS FROM BLACK HOLE ACCRETION DISKS. 3-16

DISORDER
EVIDENCE FOR ORDER DISORDER IN PLUTONIUM CARBIDE (0.80) AT LOW TEMPERATURES THROUGH SPECIFIC HEAT MEASUREMENTS. 29-2

DISORDERED
DISORDERED HARMONIC CHAIN WITH SELF CONSISTENT RESERVOIRS. 27-6

DISPERSION
DISPERSION CORRECTIONS FOR X RAY ATOMIC SCATTERING FACTORS. 9-9

NUMERICAL STUDIES OF THE INTERPLAY BETWEEN SELF PHASE MODULATION AND DISPERSION FOR INTENSE PLANE WAVE LASER PULSES. 20-105

RELATIVISTIC PLASMA DISPERSION FUNCTION. 20-132

ANOMALOUS DISPERSION EFFECTS ON PULSE PROPAGATION IN HIGH PRESSURE CARBON DIOXIDE AMPLIFIERS. 20-8

DISPERSIVE
DISPERSIVE TEMPORAL COMPRESSION OF THE ENERGY IN LASER PULSES: A REVIEW. 20-28

DISPLAY
SCAN AND DISPLAY CONSIDERATIONS IN PROCESSING IMAGES BY DIGITAL COMPUTER. 21-71

DISPLAYS
PERSPECTIVE DISPLAYS FOR THREE DIMENSIONAL FINITE DIFFERENCE CALCULATIONS. 21-64

DISPOSAL
ENVIRONMENTAL EVALUATION OF SOLID RADIOACTIVE WASTE DISPOSAL AREAS. 30-24

FEASIBILITY STUDY OF THE DISPOSAL OF A ROVER REACTOR WITH HIGH EXPLOSIVES. 30-28

DISPOSITION
DISPOSITION OF TA-33-21, A PLUTONIUM CONTAMINATED EXPERIMENTAL FACILITY. 17-15

DISSIPATION
INTRINSIC DISSIPATION AND THINNING IN FILM FLOW. 8-19

MACROSCOPIC AND MICROSCOPIC APPROACHES TO NUCLEAR DISSIPATION. 25-107

MICROSCOPIC THEORY OF NUCLEAR DISSIPATION. 25-118

DISSOCIATION
ON THE PREFERENCE FOR VIBRATIONAL ENERGY IN DIATOMIC DISSOCIATION. 4-46

DISSOCIATIVE
DISSOCIATIVE EXCITATION CHANNELS IN THE INTERACTION OF ARGON(3-P-0,2) AND HELIUM (2-3-S) METASTABLE ATOMS WITH METHANE, ETHYLENE, ACETYLENE, AND BENZENE. 6-6

DISSOLUTION
SEALED REFLUX DISSOLUTION SYSTEM. 2-25

RECENT DEVELOPMENTS IN THE DISSOLUTION AND AUTOMATED ANALYSIS OF PLUTONIUM AND URANIUM FOR SAFEGUARDS MEASUREMENTS. 26-23

DISTANCE
DEPENDENCE OF LITHIUM DRIFTED GERMANIUM DETECTOR EFFICIENCY SLOPE ON SOURCE TO DETECTOR DISTANCE 19-4

PHOTOELECTRIC OBSERVATIONS OF BO -4B FLASHES AT A LONG DISTANCE. 30-60

DISTANCES
SOLAR WIND STREAM EVOLUTION AT LARGE HELIOCENTRIC DISTANCES: EXPERIMENTAL DEMONSTRATION AND THE TEST OF A MODEL. 1-26

CINDER CONE SEPARATION DISTANCES. IMPLICATIONS FOR THE DEPTH OF FORMATION OF GABBROIC XENOLITHS. 11-8

DISTINCT
DIFFERENT DRUGS ARREST CELLS AT A NUMBER OF DISTINCT STAGES IN G2. 5-53

DISTORTED
DISTORTED PERIPHERAL CROSS SECTIONS FOR DEUTERON (PI+,2PROTON). 22-11

CROSS SECTIONS FOR DEUTERON (PI+,2PROTON) WITH DISTORTED PROTONS 25-42

DISTORTION
DISTORTION AND NOISE INDUCED DC OFFSET IN OPERATIONAL AMPLIFIERS 13-3

DISTORTIONS
PLASMA EQUILIBRIUM DISTORTIONS IN THE SCYLLAC SECTOR. 10-98

DISTRIBUTION
DISTRIBUTION OF PLASMA SHEET THINNING AND RECOVERY EVENTS IN THE MAGNETOTAIL SURVEYED BY THE IMP-6 SATELLITE. 1-3

DISTRIBUTION OF SUPERNOVA REMNANTS IN THE GALAXY: EVIDENCE FOR A TUNNEL SYSTEM. 3-13

EXTENSIVE SPATIAL DISTRIBUTION OF 569.4 NM CALCIUM XV EMISSION IN THE SOLAR CORONA DURING THE ECLIPSE OF 1973. 3-15

SPATIAL DISTRIBUTION OF EFFECTS OF NEGATIVE PIONS ON CULTURED HUMAN CELLS. 5-136

CELL AGE DISTRIBUTION STUDY OF LSA ASCITES LYMPHOMA DURING GROWTH. 5-18

ANALYSIS OF CELL AGE DISTRIBUTION DURING ASCITES TUMOR GROWTH. 5-2

IMPORTANCE OF NONUNIFORM DOSE DISTRIBUTION IN AN ORGAN. 5-78

USERDA DIVISION OF ELECTRIC POWER TRANSMISSION AND DISTRIBUTION DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1974. 8-60

SLOWING-IN DISTRIBUTION OF FAST PARTICLES RELEASED IN MAXWELLIAN PLASMA. 10-125

NUCLEAR CHARGE DISTRIBUTION IN FISSION SPECTRUM NEUTRON INDUCED FISSION: FRACTIONAL CUMULATIVE YIELDS OF RARE GAS NUCLIDES FROM FISSION OF URANIUM -235 AND URANIUM -238. 16-10

ANGULAR DISTRIBUTION OF POLARIZATION TRANSFER IN HYDROGEN -2(DEUTERON,PROTON) HYDROGEN -3. 25-10

CLUSTER SIZE AND THE RAPIDITY GAP LENGTH DISTRIBUTION. 25-31

EFFECTS OF PION MULTIPLE SCATTERING ON THE DISTRIBUTION OF RESIDUAL NUCLEI. 25-55

ENERGY AND ANGULAR DISTRIBUTION OF NEUTRONS PRODUCED BY 800 MEV PROTON -PROTON COLLISIONS. 25-64

DISTRIBUTIONS
AXIAL DISTRIBUTIONS OF NIOBIUM -95 AND ZIRCONIUM -95 ISOTOPES IN IRRADIATED URANIUM DIOXIDE - PLUTONIUM DIOXIDE FUEL PINS. 2-3

FIELD DISTRIBUTIONS IN A SPIRAL RESONATOR. 10-38

CALCULATIONS OF COULOMB ENERGIES FOR UNIFORM CHARGE DISTRIBUTIONS OF ARBITRARY SHAPE. 24-2

ANGULAR DISTRIBUTIONS IN THE RADIATIVE CAPTURE OF 14 MEV NEUTRONS. 25-11

NEUTRON ENERGY AND VELOCITY DISTRIBUTIONS FROM THERMAL DEUTERIUM TRITIUM REACTIONS. 25-129

NUCLEAR CHARGE DISTRIBUTIONS IN THE MASS 60 REGION. NEW EVIDENCE FROM MUONIC ISOTOPE SHIFT MEASUREMENTS. 25-140

GAMMA RAY ANGULAR DISTRIBUTIONS AND PARITY TESTS IN THE DECAYS OF POLARIZED LUTETIUM -173 AND LUTETIUM -174M,G. 25-85

DISULFIDE
CARBON DISULFIDE INSERTION REACTIONS WITH COPPER(I) MERCAPTIDE COMPLEXES. 7-1

INTERFEROMETRIC MEASUREMENTS OF THE NONLINEAR REFRACTIVE INDEX COEFFICIENT RELATIVE TO CARBON DISULFIDE IN LASER SYSTEM RELATED MATERIALS. 20-57

DIVALENT
ON THE DIFFUSION OF DIVALENT IMPURITIES IN ALUMINUM. 23-43

DIVERGENT
LECTURES ON DIVERGENT SERIES. 21-45

DIVERGING
NONSTEADY STATE DETONATIONS IN ONE DIMENSIONAL PLANE, DIVERGING, AND CONVERGING GEOMETRIES. 15-18

DIVISION
HEALTH DIVISION ANNUAL REPORT 1952. 5-73

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, APRIL 1 - JUNE 30, 1975 8-58

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JANUARY 1 - MARCH 31, 1975 8-59

USERDA DIVISION OF ELECTRIC POWER TRANSMISSION AND DISTRIBUTION DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1974. 8-60

E DIVISION QUARTERLY STATUS REPORT, JUNE 1 - AUGUST 31, 1975. 13-4

COMPUTER SCIENCE AND SERVICES DIVISION OF THE LOS ALAMOS SCIENTIFIC LABORATORY. 21-21

E DIVISION QUARTERLY STATUS REPORT, MARCH 1 - MAY 31, 1975. 30-19

P DIVISION PROGRESS REPORT, 20 JUNE 1948 - 20 JULY 1948. 30-56

DNA
PHOTO INDUCED DNA PROTEIN ADDUCTS IN CHINESE HAMSTER OVARY CELL CHROMATIN. 5-110

PREPARATIVE METHODS FOR ANALYSIS OF DNA, PROTEIN AND NUCLEAR - TO CYTOPLASMIC RATIOS IN NORMAL AND TUMOR CELL POPULATIONS. 5-118

RATE OF DNA SYNTHESIS DURING S PHASE BY MAMMALIAN CELLS IN VITRO. 5-124

SEQUENTIAL BIOCHEMICAL EVENTS IN PREPARATION FOR DNA REPLICATION AND MITOSIS. 5-130

CELLULAR DNA CONTENT AND CHROMOSOME NUMBER IN HETEROPLOID CELL POPULATIONS 5-31

CHROMOSOME G-BANDING AND DNA CONSTANCY IN ANEUPLOID CELL POPULATIONS. 5-39

DNA CONSTANCY IN HETEROPLOIDY AND THE STEM LINE THEORY OF TUMORS 5-56

EVIDENCE THAT X IRRADIATION INHIBITS DNA REPLICON INITIATION IN CHINESE HAMSTER CELLS. 5-62

EXCITON TRANSFER IN DNA. 5-63

LACK OF SPECIFIC CORRELATION OF THE DEOXYCYTIDINE TRIPHOSPHATE POOL LEVEL WITH RATE OF DNA SYNTHESIS. 5-91

DO'S
DO'S AND DONT'S OF NONDESTRUCTIVE ASSAY MEASUREMENTS. 26-6

DOCUMENT
BIBLIOGRAPHY OF CHEMISTRY AND METALLURGY DOCUMENTS RECEIVED BY THE LOS ALAMOS DOCUMENT ROOM IN THE PERIOD JANUARY 1, 1947 TO JANUARY 1, 1948. 23-2

DOG
COMPARATIVE METABOLISM OF RADIONUCLIDES IN MAMMALS. 9. RETENTION OF SELENIUM -75 IN THE MOUSE, RAT, MONKEY, AND DOG. 5-43

DOGS
RETENTION AND EXCRETION OF COBALT -60 IN MICE, RATS, MONKEYS, AND DOGS 5-128

DOME
DOME DEPTH ABOVE A DEPTH CHARGE IN WATER. 15-5

DOMINANT
GAUSSIAN ELIMINATION FOR DENSE SYSTEMS ON STAR AND A NEW PARALLEL ALGORITHM FOR DIAGONALLY DOMINANT TRIDIAGONAL SYSTEMS. 21-36

DOMINIC
LOW ALTITUDE FIREBALL CALCULATIONS. 1. COMPARISONS WITH DATA FOR DOMINIC EVENTS. 18-23

DONT'S
DO'S AND DONT'S OF NONDESTRUCTIVE ASSAY MEASUREMENTS. 26-6

DOORS
KILOTON SHIELD DOORS AT LAMPF. 13-8

KILOTON SHIELD DOORS AT LAMPF. 22-22

DOPPLER
EQUAL AREA PROPERTY OF NARROW RESONANCES INDUCED IN COUPLED DOPPLER BROADENED SYSTEMS BY INTENSE LASER RADIATION. 20-40

BENCHMARK DOPPLER MEASUREMENTS USING A HYBRID STATIC/DYNAMIC HEATING TECHNIQUE. 28-3

DOSE
COMPUTER MODELING OF NEUTRON DOSE AT VARIOUS LOCATIONS WITHIN THE BODY DURING PION RADIOTHERAPY. 5-46

IMPORTANCE OF NONUNIFORM DOSE DISTRIBUTION IN AN ORGAN. 5-78

INVESTIGATION OF THE TWO COMPONENT RADIATION INJURY CONCEPT USING EQUIVALENT RESIDUAL DOSE FACTORS. 5-83

INTEGRAL NEUTRON AND GAMMA DOSE MEASUREMENTS ON KIWI-A THREE. 30-33

KIWI-B1A GAMMA DOSE RATE MEASUREMENTS 30-38

RADIATION DOSE TO BE EXPCATIONS WITHIN THE BODY DURING PION RADIOTHERAPY. 5-46

IMPORTANCE OF NONUNIFORM DOSE DISTRIBUTION IN AN ORGAN. 5-78

INVESTIGATION OF THE TWO COMPONENT RADIATION INJURY CONCEPT USING EQUIVALENT RESIDUAL DOSE FACTORS. 5-83

INTEGRAL NEUTRON AND GAMMA DOSE MEASUREMENTS ON KIWI-A THREE. 30-33

KIWI-B1A GAMMA DOSE RATE MEASUREMENTS. 30-38

RADIATION DOSE TO BE EXPECTED FROM AERIAL PENETRATION OF AN ATOMIC CLOUD. 30-72

DOSES
RECOVERY RATE AND RESIDUAL INJURY IN MONKEYS EXPOSED TO LARGE DOSES OF RADIATION BY FRACTIONATION. 5-125

DOSIMETER
EVALUATION OF LITHIUM BORATE AS A 7000-R DOSIMETER. 5-59

PASSIVE ENVIRONMENTAL NEUTRON DOSIMETER. 17-34

DOSIMETRY
DOSIMETRY FOR PION BEAMS AT LAMPF. 5-57

DOUBLE
DOUBLE MODE CEPHEIDS AND U TRA. 3-14

APPLICATIONS OF LINEAR PULSATION THEORY TO THE CEPHEID MASS PROBLEM AND THE DOUBLE MODE CEPHEIDS. 3-4

REFLECTED RAREFACTIONS, DOUBLE REGULAR REFLECTIONS, AND MACH WAVES IN ALUMINUM AND BERYLLIUM. 18-39

DOWNCOMER
NUMERICAL SIMULATION OF FLOW IN AN UNWRAPPED DOWNCOMER. 18-33

DRAFTING
INTERACTIVE GRAPHICS SYSTEM FOR MECHANICAL DRAFTING AND DESIGN. 21-42

DRAWINGS
BUILDING D PLUTONIUM PURIFICATION: EQUIPMENT DRAWINGS. 30-6

DRIFT
DRIFT COMPENSATING INTEGRATOR FOR MEASUREMENT OF TRANSIENT ATOMIC ABSORPTION SIGNALS. 2-13

ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY. 10-1

POST-IMPLOSION ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY. 10-104

POST-IMPLOSION ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY. 10-105

NUMERICAL SIMULATION OF THE LOWER HYBRID DRIFT INSTABILITY. 10-88

NUMERICAL SIMULATION OF THE LOWER HYBRID DRIFT INSTABILITY 10-89

APPLICATION OF A DRIFT - FLUX MODEL TO FLASHING IN STRAIGHT PIPES. 18-2

DRIFTED
DEPENDENCE OF LITHIUM DRIFTED GERMANIUM DETECTOR EFFICIENCY SLOPE ON SOURCE TO DETECTOR DISTANCE. 19-4

DRILLING
PLANNING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 1. 11-41

ROCK MELTING TECHNOLOGY AND GEOTHERMAL DRILLING. 11-48

TESTING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 2 11-57

TESTING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 3 11-58

DRILLS
PETROGRAPHY AND CHEMISTRY OF MINERALS AND GLASS IN ROCKS PARTIALLY FUSED BY ROCK MELTING DRILLS. 11-38

DRIVE
USE OF HIGH ENERGY, SHORT PULSE EXPLOSIVE GENERATORS TO DRIVE ELECTROMAGNETIC IMPLOSIONS. 15-29

DRIVEN
PHONON DRIVEN PHASE CHANGE IN CESIUM LITHIUM CHROMIUM HEXACYANIDE. 9-18

CURRENT DRIVEN INSTABILITIES IN THE PRESENCE OF HEAT CONDUCTION. 10-16

ELECTROMAGNETIC ION CYCLOTRON INSTABILITY DRIVEN BY ION ENERGY ANISOTROPY IN HIGH BETA PLASMAS. 10-25

MAGNIFICATION RATIOS FOR EXPLOSIVE DRIVEN SHOCKS. 15-17

STRUCTURE AND SCALING LAWS OF LASER DRIVEN ABLATIVE IMPLOSIONS. 20-144

CARBON DIOXIDE LASER DEVELOPMENT AND ASYMMETRY IN LASER DRIVEN IMPLOSIONS. 20-15

LASER DRIVEN IMPLOSION OF SPHERICAL DEUTERIUM - TRITIUM TARGETS TO THERMONUCLEAR BURN CONDITIONS. 20-68

LASER DRIVEN SYNTHESIS OF BORON HYDROCHLORIDE FROM BORON CHLORIDE AND HYDROGEN. 20-69

DROPOUTS
COMPLETE PLASMA DROPOUTS AT VELA SATELLITES DURING THINNING OF THE PLASMA SHEET. 1-2

DRUGS
DIFFERENT DRUGS ARREST CELLS AT A NUMBER OF DISTINCT STAGES IN G2. 5-53

DRY
CURRENT STATUS OF THE LOS ALAMOS DRY HOT ROCK GEOTHERMAL ENERGY EXPERIMENT. 11-10

DRY HOT ROCK SYSTEMS. 11-13

FORCED OSCILLATIONS OF THE LOS ALAMOS SCIENTIFIC LABORATORY'S DRY HOT ROCK GEOTHERMAL RESERVOIR. 11-17

GEOTHERMAL ENERGY: HOT DRY ROCK TECHNOLOGY. 11-22

PROGRESS OF THE LASL DRY HOT ROCK GEOTHERMAL ENERGY PROJECT. 11-42

DUCTILE
DUCTILE TO BRITTLE TRANSITION OF URANIUM - 0.75 WT PERCENT TITANIUM PENETRATOR CORES. 23-10

DUCTILITY
PROCESS FOR IMPROVING THE LOW TEMPERATURE DUCTILITY OF TUNGSTEN BASE COMPOSITES. 23-46

DULCE
FOCAL MECHANISM OF THE DULCE, NEW MEXICO, EARTHQUAKE ON JANUARY 23, 1966. 11-16

DUST
MOLECULAR EQUATIONS OF STATE FOR DENSE DUST CLOUDS. 3-27

DUTY
PROTOTYPE HIGH CURRENT, HIGH DUTY FACTOR NEGATIVE HYDROGEN ION SOURCE FOR LAMPF. 22-44

DWIA
INELASTIC PION NUCLEUS SCATTERING IN DWIA. 22-20

DYANMICS
COMPARISON OF THE COMBINED PHASE SPACE TRAJECTORY AND QUASICLASSICAL TRAJECTORY METHODS IN THE STUDY OF REACTION DYANMICS: HYDROGEN + IODINE(2) AND HYDROGEN + BROMINE(2). 6-4

DYMAC
NONDESTRUCTIVE ASSAY TECHNOLOGY AND IN-PLANT MATERIALS CONTROL: DYMAC. 26-16

DYNAMIC
DYNAMIC MODEL OF GROSS PLASMA MOTION IN SCYLLAC. 10-22

DYNAMIC SIMULATION OF A SOLAR HEATED AND COOLED BUILDING. 12-7

DYNAMIC ELASTIC - PLASTIC PROPERTIES OF SINGLE CRYSTAL PETN. 15-6

EFFECT OF STRAIN AGING ON THE DYNAMIC ELASTIC - PLASTIC PROPERTIES OF IRON. 23-13

RESPONSE OF IRON TO DYNAMIC COMPRESSION. 23-51

NONDESTRUCTIVE ASSAY TECHNOLOGY AND IN-PLANT DYNAMIC MATERIALS CONTROL. 26-15

BENCHMARK DOPPLER MEASUREMENTS USING A HYBRID STATIC/DYNAMIC HEATING TECHNIQUE. 28-3

RATIONAL DYNAMIC LOADS ANALYSIS FOR AIR CUSHION VEHICLES IN RANDOM SEAWAY OR TERRAIN. 30-76

DYNAMICAL
REPRESENTATIONS OF A LOCAL CURRENT ALGEBRA: THEIR DYNAMICAL DETERMINATION. 21-70

DYNAMICS
RECENT OBSERVATIONS RELATING TO THE DYNAMICS AND ORIGIN OF THE MAGNETOTAIL PLASMA SHEET. 1-22

GENERAL NUMERICAL FLUID DYNAMICS ALGORITHM FOR ASTROPHYSICAL APPLICATIONS. 3-17

CHEMICAL REACTION DYNAMICS. PART 2. REACTION NETWORKS. 6-2

DYNAMICS OF THE DENSE PLASMA FOCUS AS DETERMINED FROM AN ANALYSIS OF LASER SCATTERING SPECTRA. 10-23

GENERAL FLUID DYNAMICS ALGORITHM FOR ASTROPHYSICAL APPLICATIONS. 18-17

NUMERICAL METHODS IN FLUID DYNAMICS, 1974. 4TH INTERNATIONAL CONFERENCE, BOULDER. PROCEEDINGS. LECTURE NOTES IN PHYSICS, V.35. 18-32

TRANSIENT DYNAMICS OF CHEMICALLY REACTIVE GASEOUS MIXTURES WITH TURBULENCE. 18-52

STATICS AND DYNAMICS OF HEAVY ION COLLISIONS. 25-210

LATTICE DYNAMICS AND STRUCTURAL PROPERTIES OF SOLID NITROGEN. 29-4

D3
NEUTRON DIFFRACTION STUDY OF HEXAAMMINE D3 CALCIUM(0) AT 75 DEGREES KELVIN. 9-15

E
E DIVISION QUARTERLY STATUS REPORT, JUNE 1 - AUGUST 31, 1975. 13-4

KINETIC PARAMETERS OF CARBONIC ANHYDRASE E BY CARBON -13 NUCLEAR MAGNETIC RESONANCE. 14-9

ASM80: A CDC 7600 MACRO CROSS ASSEMBLER FOR HI-15 AND D.E.C. PDP-9 AND PDP-15 COMPUTERS. 21-9

REACTION CARBON -13 (PI-PLUS, PI-ZERO) NITROGEN -13 (G.S.) FOR E(PI-PLUS) = 30 TO 190 MEV. 22-49

YTTRIUM -89 (TRITON,PROTON) YTTRIUM -91 REACTION AT E(T) = 20 MEV. 25-231

E DIVISION QUARTERLY STATUS REPORT, MARCH 1 - MAY 31, 1975. 30-19

EARTH
RESPONSE OF THE PLASMA SHEET AT APPROXIMATELY 18 EARTH RADII TO SUDEN SOUTHWARD TURNINGS OF THE INTERPLANETARY MAGNETIC FIELD. 1-23

NEW AND MORE ACCURATE METHOD FOR THE DIRECT MEASUREMENTS OF EARTH TEMPERATURE GRADIENTS IN DEEP BOREHOLES. 11-33

SOLID EARTH GEOSCIENCES RESEARCH ACTIVITIES AT LASL, JANUARY 1 - JUNE 30, 1975. 11-53

SOLID EARTH GEOSCIENCES RESEARCH ACTIVITIES AT LASL, JULY 1 - DECEMBER 31, 1974. 11-54

CHARACTERIZATION OF ROCK MELTS AND GLASSES FORMED BY EARTH MELTING SUBTERRENES. 11-6

EQUILIBRIUM DEFORMATIONS AND EXCITATION ENERGIES FOR NONCOLLECTIVE STATES IN ODD Z RARE EARTH NUCLEI. 25-67

EARTHQUAKE
FOCAL MECHANISM OF THE DULCE, NEW MEXICO, EARTHQUAKE ON JANUARY 23, 1966. 11-16

EARTHWARD
PROLONGED EARTHWARD FLOW OF MAGNETOTAIL PLASMA ASSOCIATED WITH STEADY SOUTHWARD IMF. 1-20

EBR II
FAILURE OBSERVATIONS ON ENCAPSULATED EXPERIMENTAL MARK-II FUEL ELEMENTS IRRADIATED IN EBR-II. 23-21

POSTIRRADIATION RESULTS AND EVALUATION OF SODIUM BONDED URANIUM - PLUTONIUM CARBIDE FUEL ELEMENTS IRRADIATED IN EBR-II. INTERIM REPORT. 28-27

ECLIPSE
ABSOLUTE INTENSITIES OF THE OUTER CORONA FROM THE JUNE 30, 1973 TOTAL SOLAR ECLIPSE. 3-1

EXTENSIVE SPATIAL DISTRIBUTION OF 569.4 NM CALCIUM XV EMISSION IN THE SOLAR CORONA DURING THE ECLIPSE OF 1973. 3-15

INTEGRATING ECLIPSE OPTICS INTO THE AEC AIR FORCE FLYING LABORATORY. 19-10

ECLIPSES
CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES. 1. AIRBORNE INSTRUMENTATION AND RESULTS. 3-10

CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES. 2. 30 MAY 1965 RESULTS, DECONVOLUTION AND INTERPRETATION. 3-11

ECOLOGICAL
ECOLOGICAL CONSIDERATIONS OF THE BEHAVIOR OF PLUTONIUM IN THE ENVIRONMENT. 17-16

ECOLOGY
RADIOCHEMICAL ANALYTICAL RESULTS OF NAEG (NEVADA APPLIED ECOLOGY GROUP) SAMPLES BY LASL-H7. 17-48

ECONOMIC
ECONOMIC AND SYSTEM ASPECTS OF A SUPERCONDUCTING MAGNETIC ENERGY STORAGE DEVICE AND A DC SUPERCONDUCTING TRANSMISSION LINE. 8-14

ECOSYSTEM
CESIUM KINETICS IN A MONTANE LAKE ECOSYSTEM. 30-10

ED 2
OBSERVATIONS OF EXCITED STATE ABSORPTION IN ED-2 NEODYMIUM GLASS. 20-106

EDDY
QUANTITATIVE PULSED EDDY CURRENT ANALYSIS. 2-23

EDGE
IMPROVEMENT IN OXIDATION RESISTANCE OF THE LEADING EDGE THERMAL PROTECTION FOR A SPACE SHUTTLE. 23-30

EFFECT
DEPENDENCE OF THE SECOND EXPLOSION LIMITS OF HYDROGEN - FLUORINE - OXYGEN - HYDROGEN FLUORIDE MIXTURES ON A HOT ATOM EFFECT. 6-5

EFFECT OF REAGENT VIBRATIONAL ENERGY ON MEASURED REACTION RATE CONSTANTS. 6-7

EFFECT OF LARGE POLOIDAL BETA ON TOKAMAK TRANSPORT. 10-24

HOT ELECTRON PRODUCTION, ANOMALOUS ABSORPTION AND EFFECT OF INTENSE ELECTROMAGNETIC FIELDS ON INVERSE BREMSSTRAHLUNG ABSORPTION NEAR THE ELECTRON PLASMA FREQUENCY. 10-50

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13: THE EFFECT OF TEMPERATURE AND LIGHT 14-1

EFFECT OF RIGIDITY ON SHOCK WAVES IN SOLIDS. 15-7

EFFECT OF VARIABLE ENTROPY IN THE THEORY OF SPHERICALLY CONVERGENT DETONATION WAVES. 15-8

EFFECT OF REFRACTIVE INDEX NONLINEARITY ON THE OPTICAL QUALITY OF HIGH POWER LASER BEAMS. 20-29

EFFECT OF SECONDARY ELECTRONS ON CHARGE COLLECTOR MEASUREMENT OF A LASER PRODUCED PLASMA. 20-30

EFFECT OF THE AMBIPOLAR ELECTRIC FIELD ON THE TRANSPORT OF ENERGETIC ELECTRONS. 20-31

OBSERVATION OF THE E2 NUCLEAR RESONANCE EFFECT IN PIONIC CADMIUM 112 22-34

EFFECT OF GALLIUM ON PLUTONIUM ASSAY. 23-11

EFFECT OF PRESSURE ON CURIE TEMPERATURE OF URANIUM (FE1-XMNX)2 COMPOUNDS. 23-12

EFFECT OF STRAIN AGING ON THE DYNAMIC ELASTIC - PLASTIC PROPERTIES OF IRON. 23-13

EFFECT OF STRAIN RATE ON THE TENSILE PROPERTIES OF ALPHA AND DELTA STABILIZED PLUTONIUM. 23-14

DISCRETE ORDINATE TO SPHERICAL HARMONIC CONVERSIONS FOR RAY EFFECT MITIGATION IN X-Y GEOMETRY. 24-9

EFFECT OF SHORT RANGED UNITARY TRANSFORMS ON THE RATE OF THE REACTION NEGATIVE PION PLUS DEUTERON GOES TO GAMMA RAY PLUS TWO NEUTRONS. 25-52

HADRONIC ATOMS AND TICKLISH NUCLEI THE E2 NUCLEAR RESONANCE EFFECT 25-88

HADRONIC ATOMS AND TICKLISH NUCLEI THE E2 NUCLEAR RESONANCE EFFECT 25-89

EFFECT OF ATMOSPHERIC LIQUID WATER ON ATOMIC BOMBS 30-20

EFFECTIVE
FORMAL DERIVATION OF EFFECTIVE SPIN HAMILTONIANS FOR MACROSCOPIC MAGNETIC INSULATOR SYSTEMS. 4-24

PERTURBATION THEORY OF EFFECTIVE HAMILTONIANS. 25-158

EFFECTIVE TWO BODY INTERACTION IN SIMPLE NUCLEAR SPECTRA. 25-53

EFFECTIVENESS
RELIABILITY ENGINEERING FOR FACILITY EFFECTIVENESS. 13-14

EFFECTS
SOME EVALUATIONS OF MAGNETOSPHERIC ELECTRIC FIELDS AND THEIR EFFECTS. 1-27

HYDRODYNAMIC EFFECTS IN THE ATMOSPHERES OF VARIABLE STARS. 3-20

THEORETICAL COLORS FOR CEPHEIDS WITH TRANSFER EFFECTS NOW EVIDENT IN THEIR LIGHT CURVES. 3-45

ELECTRON BINDING EFFECTS ON SCATTERING CONTRIBUTION TO MONOCHROMATIC AND MEAN OPACITIES. 4-14

ISOTOPE EFFECTS IN THE SCHUMANN-RUNGE BANDS OF MOLECULAR OXYGEN. 4-32

RELATIVISTIC EFFECTS IN THE THOMAS-FERMI ATOM. 4-55

BIOLOGICAL EFFECTS OF NEGATIVE PIONS. 5-12

BIOLOGICAL EFFECTS OF THE LOS ALAMOS MESON BEAM ON CELLS IN CULTURE. 5-13

SOME OBSERVATIONS ON THE COMPARATIVE EFFECTS OF INBREEDING AND WHOLE BODY X RAY EXPOSURE TO SEVENTY GENERATIONS OF MICE. 5-134

SPATIAL DISTRIBUTION OF EFFECTS OF NEGATIVE PIONS ON CULTURED HUMAN CELLS. 5-136

BIOLOGICAL EFFECTS OF ULTRASOUND ON CULTURED MAMMALIAN CELLS. 5-14

COMPARATIVE EFFECTS OF THREE NITROSUREA DERIVATIVES ON MAMMALIAN CELL CYCLE PROGRESSION. 5-42

DIFFERENTIAL EFFECTS OF TWO CHEMOTHERAPEUTIC AGENTS, STREPTOZOTOCIN AND CHLOROZOTOCIN, ON THE MAMMALIAN CELL CYCLE. 5-54

ENERGY TRANSFER IN PHOTOSYNTHESIS: PIGMENT CONCENTRATION EFFECTS AND FLUORESCENT LIFETIMES. 5-58

EMFS ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM: BARE ELECTRODE EFFECTS, USE OF N UNEQUAL TO 2, PREMONITORY PHENOMENA AND LIQUID STRUCTURE IN GOLD -CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS. 7-5

DIRECTIONAL EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT. 8-13

INVESTIGATION OF THE SOURCES OF ASYMMETRY EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT IN TYPE II TANTALUM WIRES. 8-20

OBSERVATION OF ASYMMETRY EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT IN TYPE II TANTALUM WIRES. 8-32

ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 1. PHASE BOUNDARY, THERMODYNAMICS AND LATTICE PARAMETER. 9-1

RADIATION EFFECTS ON THE LATTICE CONSTANTS OF SINGLE CRYSTAL ALUMINUM DIOXIDE. 9-19

ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 2. SUPERCONDUCTING TRANSITION TEMPERATURE. 9-2

TRANSIENT CHARGE EXCHANGE EFFECTS IN A NEUTRAL GAS LAYER. 10-151

USE OF LITHIUM (DEUTERON,NEUTRON) NEUTRONS FOR SIMULATION OF RADIATION EFFECTS IN FUSION REACTORS. 10-154

EFFECTS OF TURBULENCE ON LOW ALTITUDE FIREBALLS AT LATE TIMES. 18-12

TWO DIMENSIONAL EFFECTS ON THERMAL OUTPUT. 18-53

DEBRIS - AIR INTERACTIONS AND THEIR EFFECTS ON RADAR CLUTTER. 18-7

PREHEAT EFFECTS ON MICROBALLOON LASER FUSION IMPLOSIONS. 20-119

PREHEAT EFFECTS ON MICROBALLOON LASER FUSION IMPLOSIONS. 20-120

DIFFRACTION EFFECTS AND OPTICAL QUALITY IN THE MULTISTAGE AMPLIFICATION OF NANOSECOND CARBON DIOXIDE PULSES. 20-24

ANOMALOUS DISPERSION EFFECTS ON PULSE PROPAGATION IN HIGH PRESSURE CARBON DIOXIDE AMPLIFIERS. 20-8

METHODS TO REDUCE THE EFFECTS OF SELF LASING AND TARGET REFLECTIONS IN CARBON DIOXIDE LASERS. 20-92

HIGH ENERGY NEUTRON SPECTRA AT THE LAMPF RADIATION EFFECTS FACILITY 22-18

OFF-SHELL EFFECTS IN THE REACTION PROTON + PROTON TO NEUTRON + PROTON + POSITIVE PION. 22-35

EFFECTS OF NEUTRON IRRADIATION ON CRITICAL CURRENT OF NIOBIUM(3)TIN AT HIGH FIELD. 23-15

EFFECTS OF REACTOR NEUTRON, 14 MEV NEUTRON AND ENERGETIC CHARGED PARTICLE IRRADIATIONS ON THE CRITICAL CURRENT IN NIOBIUM(3)TIN. 23-16

EFFECTS OF SOLUTION AND INTERMEDIATE HEAT TREATMENTS ON THE NOTCH - RUPTURE BEHAVIOR OF INCONEL 718. 23-17

HELIUM EFFECTS IN PLUTONIUM -238 DIOXIDE FUEL FORMS. 23-25

ONE DIMENSIONAL ELASTIC - PLASTIC CALCULATIONS INVOLVING STRAIN HARDENING AND STRAIN RATE EFFECTS FOR ALUMINUM. 23-44

ONE DIMENSIONAL ELASTIC - PLASTIC CALCULATIONS INVOLVING STRAIN HARDENING AND STRAIN RATE EFFECTS FOR ALUMINUM. 23-45

EFFECTS OF NEUTRON STREAMING AND GEOMETRIC MODELS ON MOLTEN FUEL RECRITICALITY ACCIDENTS. 24-10

EFFECTS OF NEUTRON STREAMING AND GEOMETRIC MODELS ON MOLTEN FUEL RECRITICALITY ACCIDENTS. 24-11

ANGULAR MOMENTUM EFFECTS IN THE SPECTRA OF RESIDUAL NUCLEI. 25-12

NUCLEAR DATA FOR CALCULATION OF RADIOACTIVITY EFFECTS. 25-142

(PI,PI N) PUZZLE: EFFECTS OF PION CHARGE EXCHANGE. 25-2

CHARGE ASYMMETRY EFFECTS AND THE TRINUCLEON BINDING ENERGY. 2. INCLUSION OF THE TENSOR FORCE AND SINGLET REPULSION. 25-2

EFFECTS OF NUCLEON CHARGE EXCHANGE ON THE PION KNOCKOUT PUZZLE. 25-54

EFFECTS OF PION MULTIPLE SCATTERING ON THE DISTRIBUTION OF RESIDUAL NUCLEI. 25-55

EXCHANGE EFFECTS FROM WEAK RADIATIVE MESONIC TRANSITIONS IN PARITY VIOLATING NUCLEAR PROCESSES. 25-71

HYDROGEN -3 - HELIUM -3 BINDING ENERGY DIFFERENCE AND POSSIBLE CHARGE ASYMMETRY EFFECTS IN THE NUCLEON - NUCLEON FORCE. 25-95

IMPLICATIONS OF PARITY VIOLATING EFFECTS IN STRANGENESS CONSERVING NONLEPTONIC PROCESSES. 25-96

LIFETIME, SURFACE TENSION, AND IMPURITY EFFECTS IN ELECTRON HOLE CONDENSATION 27-10

LIFETIME, SURFACE TENSION, AND IMPURITY EFFECTS IN ELECTRON HOLE CONDENSATION 27-9

EFFECTS OF ADDING HYDROGENOUS MATERIAL TO KIWI REACTORS. 30-21

EFFECTS OF RADIATION ON LUBRICANTS AND OTHER MATERIALS. A SURVEY OF CLASSIFIED LITERATURE, 1950-55. 30-22

EFFICIENCY
DEPENDENCE OF LITHIUM DRIFTED GERMANIUM DETECTOR EFFICIENCY SLOPE ON SOURCE TO DETECTOR DISTANCE. 19-4

EFFICIENCY AND POSITION RESOLUTION OF TWO DIMENSIONAL POSITION SENSITIVE MULTIWIRE PROPORTION COUNTERS. 22-12

EFFICIENT
PULSE COMPRESSION FOR MORE EFFICIENT OPERATION OF SOLID STATE LASER AMPLIFIER CHAINS. 2. 20-122

SCALING AND EFFICIENT OPERATION OF THE 1720 A XENON LASER. 20-135

EIGHT
EXPERIMENTAL DETERMINATION OF PHOTOFISSION NEUTRON MULTIPLICITIES FOR EIGHT ISOTOPES IN THE MASS RANGE 232 A 239. 16-1

ELA
SEROLOGIC TESTING WITH ENZYME LABELED ANTIBODIES (ELA). 5-133

ELASTIC
USE OF TWO ANGLE ELASTIC AND RAMAN SCATTERING TO OBTAIN MOLECULAR DENSITY AND AEROSOL SCATTERING PROFILES. 1-31

COLLISIONS OF NEON*(3S) AND NEON(+) WITH NEON. EXCITATION AND CHARGE TRANSFER, ELASTIC SCATTERING, AND DIFFUSION. 4-9

DYNAMIC ELASTIC - PLASTIC PROPERTIES OF SINGLE CRYSTAL PETN. 15-6

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 3. ELASTIC SCATTERING METHOD 20-104

EFFECT OF STRAIN AGING ON THE DYNAMIC ELASTIC - PLASTIC PROPERTIES OF IRON. 23-13

ELASTIC CONSTANTS AND SOUND VELOCITIES. 4. THE ELASTIC CONSTANTS OF PLUTONIUM. 23-18

ELASTIC CONSTANTS AND SOUND VELOCITIES. 4. THE ELASTIC CONSTANTS OF PLUTONIUM. 23-18

ONE DIMENSIONAL ELASTIC - PLASTIC CALCULATIONS INVOLVING STRAIN HARDENING AND STRAIN RATE EFFECTS FOR ALUMINUM. 23-44

ONE DIMENSIONAL ELASTIC - PLASTIC CALCULATIONS INVOLVING STRAIN HARDENING AND STRAIN RATE EFFECTS FOR ALUMINUM. 23-45

SELF SHIELDING OF ELASTIC TRANSFER MATRICES. 25-202

ELASTIC PION HELIUM -4 SCATTERING. 25-56

ELASTIC SCATTERING OF 7-12 MEV TRITONS BY ALPHA PARTICLES. 25-57

ELASTIC SCATTERING OF LOW ENERGY PIONS ON PROTONS. 25-58

ELASTIC SCATTERING OF POSITIVE PIONS BY CARBON AT 147 MEV. 25-59

ELECTRON ELASTIC SCATTERING CROSS SECTIONS FROM 1 KEV TO 100 MEV FOR ELEMENTS Z = 1 TO 100. 25-62

ELASTICITY
ELASTICITY IN THE RESPONSE OF NUCLEI. 25-60

ELECTRIC
GRADIENTS OF SOLAR PROTONS IN THE HIGH LATITUDE MAGNETOTAIL AND THE CONVECTION ELECTRIC FIELD. 1-11

MEASURED ELECTRIC FIELD IN THE MAGNETOTAIL. 1-18

SOME EVALUATIONS OF MAGNETOSPHERIC ELECTRIC FIELDS AND THEIR EFFECTS. 1-27

MAGNETIC ENERGY STORAGE FOR ELECTRIC UTILITY APPLICATIONS. 8-26

MAGNETIC ENERGY STORAGE FOR ELECTRIC UTILITY APPLICATIONS. 8-27

MAGNETIC ENERGY STORAGE FOR ELECTRIC UTILITY APPLICATIONS. 8-28

SUPERCONDUCTING ELECTRIC POWER TRANSMISSION. 8-44

APPLICATIONS OF SUPERCONDUCTIVITY TO ELECTRIC POWER SYSTEMS. 8-5

USE OF ADIABATIC DEMAGNETIZATION TO MEASURE THE ELECTRIC FIELD GRADIENT IN CADMIUM. 8-57

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, APRIL 1 - JUNE 30, 1975. 8-58

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JANUARY 1 - MARCH 31, 1975. 8-59

USERDA DIVISION OF ELECTRIC POWER TRANSMISSION AND DISTRIBUTION DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1974. 8-60

WILL SUPERCONDUCTING MAGNETIC ENERGY STORAGE BE USED ON ELECTRIC UTILITY SYSTEMS 8-62

ELECTRON HEATING AND LANDAU DAMPING IN INTENSE LOCALIZED ELECTRIC FIELDS. 10-26

ELECTROCHEMICAL HEAT ENGINES FOR DIRECT ELECTRIC POWER GENERATION AND ENERGY STORAGE. 12-8

EFFECT OF THE AMBIPOLAR ELECTRIC FIELD ON THE TRANSPORT OF ENERGETIC ELECTRONS. 20-31

ELECTRIC FIELD INDUCED HARMONIC GENERATION AS A PROBE OF THE FOCAL REGION OF A LASER BEAM. 20-32

LASER - FUSION ELECTRIC GENERATING STATIONS BASED ON THE MAGNETICALLY PROTECTED REACTOR CAVITY. 20-65

VACUUM POLARIZATION IN STRONG, REALISTIC ELECTRIC FIELDS. 25-228

ELECTRIC FIELD GRADIENT IN CADMIUM METAL AND THE DECAY OF METASTABLE CADMIUM -115. 25-61

QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC R AND D PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1969. PART 2. 30-71

SPACE ELECTRIC POWER R AND D PROGRAM, QUARTERLY STATUS REPORT FOR THE PERIOD ENDING APRIL 30, 1969. 30-85

ELECTRICAL
ELECTRICAL BREAKDOWN AND TRACKING CHARACTERISTICS OF PULSED HIGH VOLTAGES IN CRYOGENIC HELIUM AND NITROGEN. 8-15

ENHANCED WEAK FIELD ELECTRICAL RESISTIVITY OF A PARAMETRICALLY UNSTABLE PLASMA. 10-32

CONTACT ELECTRICAL METHOD OF STUDYING IMPLOSION. 15-2

ELECTRICAL REQUIREMENTS OF XENON LASERS. 20-33

LOW TEMPERATURE THERMAL AND ELECTRICAL PROPERTIES OF CHEMICAL VAPOR DEPOSITED NIOBIUM(3)GERMANIUM. 23-34

ELECTRICALLY
ELECTRICALLY IMPLODED CYLINDRICAL FUSION TARGETS. 20-34

ELECTROCHEMICAL
ELECTROCHEMICAL HEAT ENGINES FOR DIRECT ELECTRIC POWER GENERATION AND ENERGY STORAGE. 12-8

ELECTRODE
EMF'S ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM: BARE ELECTRODE EFFECTS, USE OF N UNEQUAL TO 2, PREMONITORY PHENOMENA AND LIQUID STRUCTURE IN GOLD -CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS. 7-5

ELECTRODES
EMF'S ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM: BARE ELECTRODE EFFECTS, USE OF N UNEQUAL TO 2, PREMONITORY PHENOMENA AND LIQUID STRUCTURE IN GOLD -CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS. 7-5

ELECTROEXPLOSIVE
IMPROVED HOT WIRE ELECTROEXPLOSIVE DEVICES. 15-14

ELECTROLYTES
EMF'S ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM: BARE ELECTRODE EFFECTS, USE OF N UNEQUAL TO 2, PREMONITORY PHENOMENA AND LIQUID STRUCTURE IN GOLD -CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS. 7-5

ELECTROMAGNETIC
ELECTROMAGNETIC CURRENT INSTABILITIES. 1-4

ELECTROMAGNETIC ION BEAM INSTABILITIES IN THE SOLAR WIND. 1-5

SPECTRAL OBSERVATION OF ELECTROMAGNETIC WAVE DECAY DUE TO THE OTS AND DECAY PARAMETRIC INSTABILITIES. 10-126

SUPERSONIC FLOW RESULTING FROM THE INTERACTION OF A HIGH FREQUENCY CAPACITOR OR ELECTROMAGNETIC FIELD WITH AN EXPANDING PLASMA. 10-141

TWO DIMENSIONAL STABILITY OF AN ELECTROMAGNETIC WAVE OBLIQUELY INCIDENT ON A NONUNIFORM PLASMA. 10-153

ELECTROMAGNETIC ION CYCLOTRON INSTABILITY DRIVEN BY ION ENERGY ANISOTROPY IN HIGH BETA PLASMAS. 10-25

HOT ELECTRON PRODUCTION, ANOMALOUS ABSORPTION AND EFFECT OF INTENSE ELECTROMAGNETIC FIELDS ON INVERSE BREMSSTRAHLUNG ABSORPTION NEAR THE ELECTRON PLASMA FREQUENCY. 10-50

USE OF HIGH ENERGY, SHORT PULSE EXPLOSIVE GENERATORS TO DRIVE ELECTROMAGNETIC IMPLOSIONS. 15-29

ELECTROMAGNETIC SCATTERING INSTABILITIES IN WEAKLY INHOMOGENEOUS UNDERDENSE PLASMA. 20-35

ELECTRON
ELECTRON HEAT FLUX INSTABILITIES IN THE SOLAR WIND. 1-6

ELECTRON BINDING EFFECTS ON SCATTERING CONTRIBUTION TO MONOCHROMATIC AND MEAN OPACITIES. 4-14

ELECTRON CONFIGURATIONS AND BONDING IN THE EARLY ACTINIDE METALS. 4-15

ELECTRON SCATTERING FROM ATOMS, NUCLEI AND NUCLEONS. 4-16

ELECTRON TRANSFER IN COLLISIONS BETWEEN ATOMIC IONS AND RARE GAS ATOMS. 4-17

MELTING AND COHESION IN F ELECTRON METALS. 4-37

MULTIPLE SCATTERING TREATMENT OF THE SOLVATED ELECTRON IN WATER. 4-41

ON THE VALIDITY OF THE SLATER APPROXIMATION IN ELECTRON SCREENING IN EXOTIC ATOMS. 4-47

R-MATRIX THEORY FOR ELECTRON - ATOM AND ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS. 4-52

R MATRIX THEORY FOR ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS. 2. ELECTRON - HYDROGEN(2) SCATTERING IN THE STATIC EXCHANGE MODEL. 4-53

RESONANT LINE AND SATELLITE SPECTRA FROM ONE, TWO, AND THREE ELECTRON IONS IN LASER GENERATED PLASMAS. 4-57

HIGH ANGULAR RESOLUTION SECONDARY ELECTRON SPECTROSCOPY: KIKUCHI CORRELATIONS FOR ARSENIC (0001). 9-11

COHERENT INELASTIC ELECTRON SCATTERING IN LEED (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF ARSENIC(0001). 9-5

COHERENT INELASTIC ELECTRON SCATTERING IN LEED (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF ARSENIC(0001). 9-5

VLASOV FLUID MODEL WITH ELECTRON PRESSURE. 10-155

ELECTRON HEATING AND LANDAU DAMPING IN INTENSE LOCALIZED ELECTRIC FIELDS. 10-26

ENERGY LOSS OF A RELATIVISTIC, FINITE ELECTRON BEAM IN A PLASMA. 10-28

HOT ELECTRON PRODUCTION, ANOMALOUS ABSORPTION AND EFFECT OF INTENSE ELECTROMAGNETIC FIELDS ON INVERSE BREMSSTRAHLUNG ABSORPTION NEAR THE ELECTRON PLASMA FREQUENCY 10-50

HOT ELECTRON PRODUCTION, ANOMALOUS ABSORPTION AND EFFECT OF INTENSE ELECTROMAGNETIC FIELDS ON INVERSE BREMSSTRAHLUNG ABSORPTION NEAR THE ELECTRON PLASMA FREQUENCY. 10-50

INFLUENCE OF SELF FIELDS ON THE VLASOV EQUILIBRIUM AND STABILITY PROPERTIES OF RELATIVISTIC ELECTRON BEAM - PLASMA SYSTEMS. 10-59

ION COUPLING, ELECTRON HEATING, AND MAGNETIC TURBULENCE FROM PLASMA INSTABILITIES. 10-63

COMPUTER SIMULATION OF COLLECTIVE ION ACCELERATION BY RELATIVISTIC ELECTRON BEAMS. 10-9

TRANSFER TECHNIQUE FOR ELECTRON MICROSCOPY OF MEMBRANE FILTER SAMPLES. 17-60

INVESTIGATION OF MICRO-CHANNEL PLATES AS PARALLEL BORE ELECTRON COLLIMATORS FOR USE IN A PROXIMITY FOCUSED ULTRA FAST STREAK TUBE. 19-12

PLASMA HEATING BY RELATIVISTIC ELECTRON BEAMS. PART 2. RETURN CURRENT INTERACTION. 20-117

EMITTED ELECTRON SPECTRA FROM PLASMAS PRODUCED WITH NEODYMIUM AND CARBON DIOXIDE LASERS. 20-36

INDICATIONS OF STRONGLY FLUX LIMITED ELECTRON THERMAL CONDUCTION IN LASER TARGET EXPERIMENTS. 20-55

MAYBE THE QUARK-PARTON MODEL CAN SURVIVE ELECTRON POSITRON ANNIHILATION. 25-110

ELECTRON ELASTIC SCATTERING CROSS SECTIONS FROM 1 KEV TO 100 MEV FOR ELEMENTS Z = 1 TO 100. 25-62

LIFETIME, SURFACE TENSION, AND IMPURITY EFFECTS IN ELECTRON HOLE CONDENSATION. 27-10

TIME DEPENDENT BEHAVIOR IN ELECTRON HOLE CONDENSATION. 27-18

LIFETIME, SURFACE TENSION, AND IMPURITY EFFECTS IN ELECTRON HOLE CONDENSATION. 27-9

ELECTRONIC
ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF DICHLORODIOXOMANGANESE(VI). 4-18

ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF MANGANESE(V) OXYTRICHLORIDE. 4-19

ELECTRONIC STRUCTURE OF ALPHA PRIME CERIUM. 4-20

ENTROPY CORRELATION FOR THE 4F AND 5F METALS: RELATION OF ELECTRONIC PROPERTIES TO METALLIC RADII, MAGNETIC TRANSFORMATIONS AND THERMODYNAMICS OF VAPORIZATION. 4-21

EXPERIMENTAL AND CALCULATED ELECTRONIC STRUCTURE OF GASEOUS CHROMIUM OXYFLUORIDE AND CHROMIUM OXYCHLORIDE. 4-23

NEW ELECTRONIC STATES OF N+(2). 4-42

PROPOSAL REGARDING THE ELECTRONIC STRUCTURE OF ALPHA - CERIUM. 4-51

SELF CONSISTENT FIELD CALCULATION OF THE ELECTRONIC STRUCTURE OF THE URANYL ION. 4-59

CALCULATED AND EXPERIMENTAL ELECTRONIC STRUCTURE OF GASEOUS MANGANESE OXYFLUORIDE AND MANGANESE OXYCHLORIDE. 4-7

PASSIVE ELECTRONIC IDENTIFICATION AND TEMPERATURE MONITORING SYSTEM, JULY 1, 1974 - JUNE 30, 1975. 5-109

IMPACT OF ELECTRONIC IDENTIFICATION AND DISEASE DETECTION ON THE ROLE OF THE VETERINARIAN. 5-77

SHORT RANGE RADIO TELEMETRY FOR ELECTRONIC IDENTIFICATION USING MODULATED RF BACKSCATTER. 19-18

COMPUTER AIDED DESIGN OF ELECTRONIC CIRCUITRY. 21-18

ONSET CRITERIA FOR INSULATING ELECTRONIC TRANSITIONS IN THREE DIMENSIONAL SYSTEMS. 27-12

ELECTRONS
FAST SOLAR ELECTRONS, INTERPLANETARY PLASMA AND KM WAVE TYPE III RADIO BURSTS OBSERVED FROM THE IMP-6 SPACECRAFT. 1-10

SOLAR WIND ELECTRONS. 1-24

RELATIVISTIC COMPTON SCATTERING FROM MOVING ELECTRONS AND ANGULAR MOMENTS. 1-49

EFFECT OF SECONDARY ELECTRONS ON CHARGE COLLECTOR MEASUREMENT OF A LASER PRODUCED PLASMA. 20-30

EFFECT OF THE AMBIPOLAR ELECTRIC FIELD ON THE TRANSPORT OF ENERGETIC ELECTRONS. 20-31

ELECTROSTATIC
COMPARISON OF THREE TWO DIMENSIONAL ELECTROSTATIC PLASMA SIMULATION MODELS. 10-8

ELEMENT
CAVITY STABILITY: FINITE ELEMENT ANALYSIS FOR STEADY AND TRANSIENT CREEP. 11-5

COMPARING CERTAIN CLASSES OF DIFFERENCE AND FINITE ELEMENT SCHEMES FOR A HYPERBOLIC PROBLEM. 21-17

ANALYSIS OF CAVITY STABILITY BY THE FINITE ELEMENT METHOD. 21-5

THREE DIMENSIONAL MESH GENERATOR FOR FINITE ELEMENT COMPUTER CODES. 21-81

ACTIVE CORRECTIVE ELEMENT FOR HIGH RESOLUTION MAGNETIC OPTICS. 22-2

LINEAR DISCONTINUOUS FINITE ELEMENT SCHEME IN TIME DEPENDENT TRANSPORT CALCULATIONS. 24-13

ONETRAN: A DISCRETE ORDINATES FINITE ELEMENT CODE FOR THE SOLUTION OF THE ONE DIMENSIONAL MULTIGROUP TRANSPORT EQUATION. 24-17

MODELS BASED ON MULTICHANNEL R-MATRIX THEORY FOR EVALUATING LIGHT ELEMENT REACTIONS. 25-120

R-MATRIX ANALYSIS OF THE LIGHT ELEMENT STANDARDS. 25-191

PINTEMP: A COMPUTER PROGRAM FOR FUEL ELEMENT DESIGN CALCULATIONS. 28-25

CONSEQUENCES OF SODIUM BOND LOSS FROM AN LMFBR (LIQUID METAL FUELED BREEDER REACTOR) CARBIDE FUEL ELEMENT. 28-8

REVIEW OF FUEL ELEMENT DEVELOPMENT FOR NUCLEAR ROCKET ENGINES. 30-80

CATHODIC VACUUM ETCHING TECHNIQUES FOR GRAPHITE FUEL ELEMENT SECTIONS. 30-9

ELEMENTARY
EXPERIMENTAL STUDY OF THE PAIRING MODE OF ELEMENTARY EXCITATIONS. 25-76

ELEMENTS
HARTREE-FOCK COMPTON PROFILES FOR THE ELEMENTS. 4-25

PLUTONIUM AND OTHER ACTINIDE ELEMENTS IN GONADAL TISSUE OF MAN AND ANIMALS. 5-114

HYDRATION ENERGIES AND SPECIFIC INFLUENCE OF OXO COMPLEXES AND HIGH COORDINATION NUMBERS ON THE PREDICTED CHEMISTRY OF SUPERHEAVY ELEMENTS. 7-9

BOND LENGTHS AND BOND STRENGTHS IN COMPOUNDS OF THE 5F ELEMENTS. 9-4

CHARACTERISTICS OF HIGH DENSITY THETA PINCHES SEEDED WITH SELECTED HIGH Z ELEMENTS. 10-6

ELEMENTS OF QUALITY ASSURANCE IN ENVIRONMENTAL SURVEILLANCE. 17-17

EXPERIENCE RELATED TO THE SAFETY OF ADVANCED LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL ELEMENTS. 17-28

ON FINITE ELEMENTS FOR EQUATIONS OF EVOLUTION. 21-59

FAILURE OBSERVATIONS ON ENCAPSULATED EXPERIMENTAL MARK-II FUEL ELEMENTS IRRADIATED IN EBR-II. 23-21

MUON LIFETIME MEASUREMENTS IN THE ACTINIDE ELEMENTS. 25-124

DIFFERENTIAL CROSS SECTIONS FOR COHERENT PHOTON SCATTERING BY ELEMENTS Z=2 THROUGH Z=26. 25-48

ELECTRON ELASTIC SCATTERING CROSS SECTIONS FROM 1 KEV TO 100 MEV FOR ELEMENTS Z = 1 TO 100. 25-62

FOURTEEN MEV, NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS FOR SEVERAL ELEMENTS. 25-84

ANALYTICAL CHEMISTRY PROGRAM FOR THE ANALYSIS OF URANIUM LOADED FUEL ELEMENTS. 28-2

POSTIRRADIATION RESULTS AND EVALUATION OF SODIUM BONDED URANIUM - PLUTONIUM CARBIDE FUEL ELEMENTS IRRADIATED IN EBR-II. INTERIM REPORT. 28-27

CALCULATED CONSEQUENCES OF SODIUM BOND LOSS FROM ADVANCED FUEL ELEMENTS. 28-4

CLADDING QUALITIES IN ADVANCED LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL ELEMENTS. 28-6

SOLID STATE PROPERTIES OF FLUORIDE CONTAINING COMPOUNDS OF 5F ELEMENTS. 29-5

CRYOGENIC THERMAL EXPANSION OF Y-12 GRAPHITE FUEL ELEMENTS. 30-16

EXTRACTION OF FISSION PRODUCTS FROM ROVER FUEL ELEMENTS. 30-26

FABRICATION OF URANIUM LOADED GRAPHITE FUEL ELEMENTS FOR KIWI-B4/B5 REACTORS. 30-27

MACHINING AND INSPECTION PROCEDURES USED AT LOS ALAMOS SCIENTIFIC LABORATORY FOR FUEL ELEMENTS OF THE KIWI-B4 SERIES. 30-45

TIME DENSITY STUDY OF WATER IN KIWI-B4 FUEL ELEMENTS WITH VARYING IMPACT VELOCITIES. 30-91

ELEVATED
LABORATORY AND NUMERICAL STUDIES OF WATER - GRANITE INTERACTIONS AT ELEVATED TEMPERATURE AND PRESSURE. 11-25

PERMEABILITY OF A MONZO-GRANITE AT ELEVATED TEMPERATURE. 11-37

ELEVATED TEMPERATURE STRENGTHENING OF MELT GROWN SAPPHIRE BY ALLOYING. 23-19

EXPERIMENTS ON URANIUM LOSS FROM URANIUM LOADED GRAPHITE AT ELEVATED TEMPERATURES. 23-20

ELIMINATION
GAUSSIAN ELIMINATION FOR DENSE SYSTEMS ON STAR AND A NEW PARALLEL ALGORITHM FOR DIAGONALLY DOMINANT TRIDIAGONAL SYSTEMS. 21-36

ELLIPSES
DETERMINATION OF ELLIPSES SATISFYING VARIOUS POINT SLOPE CONDITIONS. 21-28

EMBRYONIC
STABLE ISOTOPE TECHNOLOGY AND ABNORMAL MAMMALIAN EMBRYONIC DEVELOPMENT. 5-137

EMFS
EMFS ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM: BARE ELECTRODE EFFECTS, USE OF N UNEQUAL TO 2, PREMONITORY PHENOMENA AND LIQUID STRUCTURE IN GOLD -CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS. 7-5

EMISSION
CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES. 1. AIRBORNE INSTRUMENTATION AND RESULTS. 3-10

CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES. 2. 30 MAY 1965 RESULTS, DECONVOLUTION AND INTERPRETATION. 3-11

EXTENSIVE SPATIAL DISTRIBUTION OF 569.4 NM CALCIUM XV EMISSION IN THE SOLAR CORONA DURING THE ECLIPSE OF 1973. 3-15

IDENTIFICATION OF SOLAR FLARE IRON(XVIII) TO IRON(XXIII) EMISSION LINES FROM 2S(N)2P(K)-2S(N-1)2P(K+1) TRANSITIONS. 3-21

ANALYSIS OF VUV EMISSION IN A THETA PINCH SEEDED WITH NEON AND IRON. 4-1

SCISSION POINT PARAMETERS DETERMINED BY LIGHT PARTICLE EMISSION IN FISSION OF CALIFORNIUM -252. 16-13

NEUTRON EMISSION FROM LASER PRODUCED PLASMAS. 20-100

EMITTANCE
BEAM EMITTANCE GROWTH IN A PROTON STORAGE RING EMPLOYING CHARGE EXCHANGE INJECTION. 22-4

EMITTED
EMITTED ELECTRON SPECTRA FROM PLASMAS PRODUCED WITH NEODYMIUM AND CARBON DIOXIDE LASERS. 20-36

EMITTERS
MONITOR FOR TRITIUM IN AIR CONTAINING OTHER BETA EMITTERS. 17-31

EMPIRICAL
COMPRESSION AND BONDING OF ICE VII AND AN EMPIRICAL LINEAR EXPRESSION FOR THE ISOTHERMAL COMPRESSION OF SOLIDS. 4-11

EMPLOYING
BEAM EMITTANCE GROWTH IN A PROTON STORAGE RING EMPLOYING CHARGE EXCHANGE INJECTION. 22-4

EMPLOYMENT
ROCKY MOUNTAIN ENERGY 1974: FLOWS, EMPLOYMENT, PRICES. 12-18

ENCAPSULATED
FAILURE OBSERVATIONS ON ENCAPSULATED EXPERIMENTAL MARK-II FUEL ELEMENTS IRRADIATED IN EBR-II. 23-21

END
EXPERIMENTAL STUDY OF PLASMA END LOSS FROM A LINEAR THETA PINCH. 10-36

ENDF
CALCULATIONS OF FAST CRITICAL ASSEMBLIES USING ENDF/B-IV CROSS SECTION DATA. 24-3

ENDF/B-IV FISSION PRODUCT FILES: SUMMARY OF MAJOR NUCLIDE DATA. 25-63

ENDLOSS
ENDLOSS FROM A LINEAR THETA PINCH. 10-27

ENDURANCE
STRUCTURAL ENDURANCE CONSTRAINTS FOR HIGH FIELD THETA PINCH COILS. COILS. 10-140

ENERGETIC
PRESSURE PROFILES IN A THERMONUCLEAR PLASMA SHEATH CONTAINING ENERGETIC ALPHA PARTICLES. 10-106

ENERGETIC PARTICLE DETECTOR FOR A SYNCHRONOUS SATELLITE. 19-6

EFFECT OF THE AMBIPOLAR ELECTRIC FIELD ON THE TRANSPORT OF ENERGETIC ELECTRONS. 20-31

EFFECTS OF REACTOR NEUTRON, 14 MEV NEUTRON AND ENERGETIC CHARGED PARTICLE IRRADIATIONS ON THE CRITICAL CURRENT IN NIOBIUM(3)TIN. 23-16

PRODUCTION OF FLUORINE -18 USING ENERGETIC NEUTRONS FROM LAMPF BEAM STOP. 25-179

ENERGIES
REACTIONS OF DIATOMIC RARE GAS IONS WITH RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 50 EV. 4-54

HYDRATION ENERGIES AND SPECIFIC INFLUENCE OF OXO COMPLEXES AND HIGH COORDINATION NUMBERS ON THE PREDICTED CHEMISTRY OF SUPERHEAVY ELEMENTS. 7-9

COINCIDENCE EXPERIMENTS AT INTERMEDIATE ENERGIES. 22-9

CALCULATIONS OF COULOMB ENERGIES FOR UNIFORM CHARGE DISTRIBUTIONS OF ARBITRARY SHAPE. 24-2

NEUTRON PRODUCTION AT 0 DEGREES FROM THE REACTION PROTON - PROTON TO NEUTRON -PROTON - PI(+) AT THE MEDIUM ENERGIES. 25-132

PROTON - NUCLEUS SCATTERING AT INTERMEDIATE ENERGIES. 25-181

TRITIUM (DEUTERON,NEUTRON) HELIUM -4 AND TRITIUM (TRITON,2NEUTRON) CROSS SECTIONS AT LOW ENERGIES. 25-227

EQUILIBRIUM DEFORMATIONS AND EXCITATION ENERGIES FOR NONCOLLECTIVE STATES IN ODD Z RARE EARTH NUCLEI. 25-67

EXCITATION ENERGIES OF LEVELS IN ALUMINUM -27 AND SILICON -28. 25-72

EXPERIMENTAL STUDY OF THE PI+ + DEUTERON TO PROTON + PROTON REACTION AT PION ENERGIES OF 40, 50, AND 60 MEV. 25-77

ENERGY
ENERGY DENSITY OF THE RELIC RADIATION. 1-7

URANIUM TRANSITIONS AND ENERGY LEVELS WHICH MAY BE USEFUL IN ATOMIC PHOTOIONIZATION SCHEMES FOR SEPARATING URANIUM -238 AND URANIUM -235. 2-28

HIGHER ORDER CORRECTIONS TO ENERGY LEVELS OF MUONIC ATOMS. 4-28

LARGE ANGLE AMPLITUDE FOR POTENTIAL SCATTERING AT HIGH ENERGY. 4-33

ON THE PREFERENCE FOR VIBRATIONAL ENERGY IN DIATOMIC DISSOCIATION. 4-46

BACKWARD POTENTIAL SCATTERINGS AT HIGH ENERGY. 4-4

ULTRAVIOLET CHARGE EXCHANGE ENERGY LOSS PARTITION AS A FUNCTION OF BUBST ALTITUDE AND YIELD TO MASS RATIO. 4-68

ENERGY TRANSFER IN PHOTOSYNTHESIS: PIGMENT CONCENTRATION EFFECTS AND FLUORESCENT LIFETIMES. 5-58

ON THE THERMAL RATE COEFFICIENT AND ACTIVATION ENERGY OF THE IODINE + IODINE(2) ATOM EXCHANGE REACTION. 6-12

EFFECT OF REAGENT VIBRATIONAL ENERGY ON MEASURED REACTION RATE CONSTANTS. 6-7

10 KA, 300 KJ MAGNETIC ENERGY TRANSFER AND STORAGE (METS) TEST FACILITY. 8-1

DEVELOPMENT OF A SUPERCONDUCTING SWITCH FOR MAGNETIC ENERGY STORAGE SYSTEMS. 8-12

ECONOMIC AND SYSTEM ASPECTS OF A SUPERCONDUCTING MAGNETIC ENERGY STORAGE DEVICE AND A DC SUPERCONDUCTING TRANSMISSION LINE. 8-14

100 MJ SUPERCONDUCTING MAGNETIC ENERGY STORAGE SYSTEM. 8-2

MAGNETIC ENERGY STORAGE FOR ELECTRIC UTILITY APPLICATIONS. 8-26

MAGNETIC ENERGY STORAGE FOR ELECTRIC UTILITY APPLICATIONS. 8-27

MAGNETIC ENERGY STORAGE FOR ELECTRIC UTILITY APPLICATIONS. 8-28

PROPOSED METS (MAGNETIC ENERGY TRANSFER AND STORAGE) - FTR (FUSION TEST REACTOR) COUPLED SUPERCONDUCTING PROTOTYPE SYSTEM. 8-40

REVERSIBLE ENERGY TRANSFER BETWEEN INDUCTANCES. 8-41

SUPERCONDUCTING MAGNETIC AND INERTIAL ENERGY PULSED POWER SYSTEMS. 8-45

SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, APRIL 1 THROUGH SEPTEMBER 30, 1974. 8-46

SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, JANUARY 1 - MARCH 31, 1975. 8-47

SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, OCTOBER 1 - DECEMBER 31, 1974. 8-48

SUPERCONDUCTING MAGNETIC ENERGY STORAGE. 8-49

SUPERCONDUCTIVITY, ENERGY STORAGE AND SWITCHING. 8-50

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, APRIL 1 - JUNE 30, 1975. 8-58

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JANUARY 1 - MARCH 31, 1975 8-59

WILL SUPERCONDUCTING MAGNETIC ENERGY STORAGE BE USED ON ELECTRIC UTILITY SYSTEMS 8-62

COHERENT INELASTIC ELECTRON SCATTERING IN LEED (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF ARSENIC(0001). 9-5

ELECTROMAGNETIC ION CYCLOTRON INSTABILITY DRIVEN BY ION ENERGY ANISOTROPY IN HIGH BETA PLASMAS. 10-25

ENERGY LOSS OF A RELATIVISTIC, FINITE ELECTRON BEAM IN A PLASMA. 10-28

ENERGY SPECTRUM OF INJECTED FUSSILE IONS IN TWO COMPONENT FUSION SYSTEMS. 10-29

ENERGY STORAGE, COMPRESSION, AND SWITCHING IN A THETA PINCH FUSION TEST REACTOR. 10-30

INTENSE NEUTRON SOURCE FACILITY FOR THE FUSION ENERGY PROGRAM. 10-62

CHARGED PARTICLE MASS AND ENERGY DEPOSITION IN A THERMONUCLEAR PLASMA. 10-7

MAGNETIC ENERGY STORAGE SYSTEM USED IN ZT-1. 10-76

NEUTRON ENERGY DEPENDENCE OF DEFECT PRODUCTION CROSS SECTIONS IN COPPER AND ALUMINUM. 10-84

CURRENT STATUS OF THE LOS ALAMOS DRY HOT ROCK GEOTHERMAL ENERGY EXPERIMENT. 11-10

ENVIRONMENTAL GEOLOGY IN DEVELOPMENT OF NUCLEAR ENERGY. 11-14

GEOTHERMAL ENERGY PROJECTS AT LASL. 11-20

GEOTHERMAL ENERGY. 11-21

GEOTHERMAL ENERGY: HOT DRY ROCK TECHNOLOGY. 11-22

PANEL ON GEOTHERMAL ENERGY. 11-36

PROGRESS OF THE LASL DRY HOT ROCK GEOTHERMAL ENERGY PROJECT. 11-42

ROCK MELTING HOLE PRODUCTION SYSTEMS FOR EXPLORATORY AND PRODUCTION GEOTHERMAL ENERGY WELLS. 11-47

VISCOUS MELT FLOW AND THERMAL ENERGY TRANSFER FOR A ROCK MELTING PENETRATOR: LITHOTHERMODYNAMICS. 11-61

IMBALANCES IN FEDERAL FUNDING OF ENERGY RESEARCH AND DEVELOPMENT. 12-10

INTEGRATED SOLAR ENERGY COLLECTOR FINAL SUMMARY REPORT. 12-11

MODELING AND HYBRID SIMULATION OF SOLAR ENERGY SYSTEMS. 12-12

NATIONAL ENERGY NEEDS, COAL, AND THE LOS ALAMOS SCIENTIFIC LABORATORY. 12-13

PANEL ON ENERGY STORAGE AND SOLAR ENERGY. 12-14

ROCKY MOUNTAIN ENERGY 1974: FLOWS, EMPLOYMENT, PRICES. 12-18

ROCKY MOUNTAIN ENERGY FLOW PATTERNS. 12-19

WORLD ENERGY RESERVES AND CONSUMPTION. 12-22

ELECTROCHEMICAL HEAT ENGINES FOR DIRECT ELECTRIC POWER GENERATION AND ENERGY STORAGE. 12-8

ENERGY RECOVERY AND OTHER ENERGY RELATED APPLICATIONS OF THE HEAT PIPE. 12-9

ENERGY RECOVERY AND OTHER ENERGY RELATED APPLICATIONS OF THE HEAT PIPE. 12-9

USE OF HIGH ENERGY, SHORT PULSE EXPLOSIVE GENERATORS TO DRIVE ELECTROMAGNETIC IMPLOSIONS. 15-29

MASS AND KINETIC ENERGY MEASUREMENTS OF FRAGMENTS FROM THE ISOMERIC AND EXCITED STATE FISSION OF AMERICIUM -242. 16-7

ENERGY DEPENDENCE OF FOUR NEUTRON REMMETER INSTRUMENTS. 17-18

ENERGY RESPONSE OF TLD BADGES LOCATED ON PERSONNEL. 17-19

ENVIRONMENTAL ISSUES RELATED TO ENERGY RESOURCE DEVELOPMENT IN NEW MEXICO. 17-23

DEBRIS ENERGY PATCH CALCULATION. 18-8

OPTICAL METHODS IN ENERGY CONVERSION, SPIE SEMINAR IN DEPTH, ROCHESTER, 23-25 JUNE 1975. 20-110

DISPERSIVE TEMPORAL COMPRESSION OF THE ENERGY IN LASER PULSES: A REVIEW. 20-20

ALPHA PARTICLE ENERGY ABSORPTION IN A REACTING DEUTERIUM - TRITIUM SPHERE. 20-3

ENERGY DEPOSITION IN A TWO DIMENSIONAL LCTR MODEL. 20-37

ENERGY DEPOSITION RATES IN A LASER -FUSION REACTOR. 20-38

HIGH ENERGY IONS FROM A CARBON DIOXIDE LASER PRODUCED PLASMA. 20-48

AMPLIFIERS INVOLVING TWO PHOTON ENERGY EXTRACTION SCHEMES. 20-6

LASER APPLICATION OF HEAT PIPE TECHNOLOGY IN ENERGY RELATED PROGRAMS. 20-67

ANALYSIS OF HOMOPOLAR GENERATORS AND SUPERCONDUCTING INDUCTIVE ENERGY STORAGE SYSTEMS AS POWER SUPPLIES FOR HIGH ENERGY, SPACE BASED LASERS. 20-7

ANALYSIS OF HOMOPOLAR GENERATORS AND SUPERCONDUCTING INDUCTIVE ENERGY STORAGE SYSTEMS AS POWER SUPPLIES FOR HIGH ENERGY, SPACE BASED LASERS. 20-7

LOS ALAMOS PRESENTATION ON LASER FUSION TO THE JOINT COMMITTEE ON ATOMIC ENERGY, WASHINGTON, DC, MARCH 13, 1975. 20-86

DESIGN OF THE LAMPF LOW ENERGY PION CHANNEL. 22-10

HIGH ENERGY NEUTRON SPECTRA AT THE LAMPF RADIATION EFFECTS FACILITY. 22-18

MEDIUM ENERGY PHYSICS PROGRAM, FEBRUARY 1 - APRIL 30, 1975. 22-29

MEDIUM ENERGY PHYSICS PROGRAM, MAY 1 -JULY 31 1975. 22-30

PERFORMANCE OF THE HIGH ENERGY PION BEAM AT LAMPF. 22-38

QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1975. 22-47

QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1974. 22-48

HIGH ENERGY PROTON SIMULATION OF 14 MEV NEUTRON DAMAGE IN ALUMINUM OXIDE. 23-28

LOW ENERGY PION - NUCLEON AND PION -DEUTERON INTERACTIONS. 25-105

MEASUREMENT OF THE ENERGY OF THE 6129 KEV GAMMA RAY OF OXYGEN -16. 25-114

MULTIPLE EXCHANGE AND HIGH ENERGY FIXED ANGLE SCATTERING. 25-123

NEUTRON ENERGY AND VELOCITY DISTRIBUTIONS FROM THERMAL DEUTERIUM - TRITIUM REACTIONS. 25-129

RADIOCHEMICAL STUDIES OF SOME LOW AND MEDIUM ENERGY NUCLEAR REACTIONS PRODUCED BY ACCELERATED TRITONS, DEUTERONS, AND PROTONS. 25-194

RELATIVISTIC SECOND ORDER ENERGY FUNCTIONAL FOR FINITE FERMION SYSTEMS. 25-196

RELATIVISTIC SECOND ORDER ENERGY IN INFINITE FERMION MATTER. 25-197

SOME TOPICS CONCERNING NEUTRON - NEUTRON AND NEUTRON - DEUTERON EXPERIMENTS AT MEDIUM ENERGY. 25-206

TIME ORDERING OF HIGH ENERGY MULTIPARTICLE PRODUCTION. 25-224

CHARGE ASYMMETRY EFFECTS AND THE TRINUCLEON BINDING ENERGY. 2. INCLUSION OF THE TENSOR FORCE AND SINGLET REPULSION. 25-27

DEDUCED NEUTRON ENERGY SPECTRA ON SKYLAB. 25-43

DEPENDENCE OF THE OFF ENERGY SHELL T MATRIX ON THE TOTAL THREE MOMENTUM. 25-45

ELASTIC SCATTERING OF LOW ENERGY PIONS ON PROTONS. 25-58

ENERGY AND ANGULAR DISTRIBUTION OF NEUTRONS PRODUCED BY 800 MEV PROTON -PROTON COLLISIONS. 25-64

ENERGY LEVELS AND LEVEL DENSITY IN NEODYMIUM -144. 25-65

ENERGY LEVELS IN NEODYMIUM -144. 25-66

ESTIMATES OF CLUSTER SIZE IN HIGH ENERGY HADRON COLLISIONS. 25-69

HIGH ENERGY NUCLEAR REACTIONS IN OUR PLANETARY SYSTEM. 25-93

HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE. SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS. 25-94

HYDROGEN -3 - HELIUM -3 BINDING ENERGY DIFFERENCE AND POSSIBLE CHARGE ASYMMETRY EFFECTS IN THE NUCLEON - NUCLEON FORCE. 25-95

UNIFIED APPROACH TO MULTIPARTICLE PRODUCTION PROCESSES AT HIGH ENERGY. 27-20

HIGH TEMPERATURE NUCLEAR REACTORS AS AN ENERGY SOURCE FOR HYDROGEN PRODUCTION. 28-17

ENERGY RELATED ACTIVITIES AT THE LOS ALAMOS SCIENTIFIC LABORATORY. 30-23

EXPLOSION POWER - AN ENERGY SOLUTION 30-25

NUCLEAR PROPULSION TECHNOLOGY TRANSFER TO ENERGY SYSTEMS. 30-51

PROPOSED FEDERAL HELIUM CONSERVATION POLICY AS RELATED TO THE HELIUM DEMANDS OF ENERGY RELATED NEW TECHNOLOGIES. 30-67

ENGEL-BREWER
REMARKS ON SOME EXCEPTIONS TO THE ENGEL-BREWER RULES. 9-22

ENGINE
GRAPHITIC FUELS FOR THE NUCLEAR ROCKET ENGINE. 28-16

ENGINEERING
STABILIZING SUPERCONDUCTORS FOR POWER ENGINEERING APPLICATIONS. 8-43

ENGINEERING DESIGN OF A LINEAR THETA PINCH HYBRID REACTOR (LTPHR). 10-31

NET APPLICATIONS IN CTR ENGINEERING. 10-83

RELIABILITY ENGINEERING FOR FACILITY EFFECTIVENESS. 13-14

ENGINEERING CONCEPTS FOR LASER FUSION REACTOR APPLICATIONS. 20-39

ENGINEERING APPLICATIONS OF ADI (ALTERNATING - DIRECT - IMPLICIT) METHODS TO PIECEWISE LINEAR MULTIDIMENSIONAL HEAT TRANSFER. 21-31

OPTION: A COMPUTER CODE TO SOLVE STEADY STATE FLUID THERMAL ENGINEERING PROBLEMS. 21-62

ENGINES
ELECTROCHEMICAL HEAT ENGINES FOR DIRECT ELECTRIC POWER GENERATION AND ENERGY STORAGE. 12-8

REVIEW OF FUEL ELEMENT DEVELOPMENT FOR NUCLEAR ROCKET ENGINES. 30-80

ENHANCED
ENHANCED WEAK FIELD ELECTRICAL RESISTIVITY OF A PARAMETRICALLY UNSTABLE PLASMA. 10-32

ENHANCEMENT
DIGITAL ENHANCEMENT OF BIOMEDICAL RADIOGRAPHS. 5-55

DIFFERENTIAL NUCLEAR OVERHAUSER ENHANCEMENT FOR CARBON -13 SINGLET AND CARBON -13 - CARBON -13 MULTIPLET RESONANCES OF A CARBOXYL CARBON. 14-6

ENRICHED
KINETIC PROPERTIES OF AN ENZYME HIGHLY ENRICHED IN CARBON -13. 5-86

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13: THE EFFECT OF TEMPERATURE AND LIGHT. 14-1

QUANTITATIVE ANALYSIS OF CARBON - CARBON COUPLING IN THE CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF MOLECULES BIOSYNTHESIZED FROM CARBON -13 ENRICHED PRECURSORS. 14-10

SPIN LATTICE RELAXATION IN AN AM(XN) SYSTEM: APPLICATION TO CARBON -13 RELAXATION IN ENRICHED MOLECULES. 14-11

CARBON -13 NUCLEAR MAGNETIC RESONANCE STUDIES OF ADENOSYLCOBALAMIN AND ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13. 14-4

CARBON -13 PARTIALLY RELAXED FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE SPEC' 'OSCOPY OF ORGANOCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -' 14-5

NEUTRON SPECTRUM FROM AN ENRICHED URANIUM -235 SPHERE. 25-135

ENRICHMENT
OXYGEN -18 ENRICHMENT PROCESS IN URANIUM OXYFLUORIDE UTILIZING LASER LIGHT. 20-113

ISOTOPIC ENRICHMENT BY MULTIPLE ABSORPTION OF CARBON DIOXIDE LASER RADIATION. 20-63

ISOTOPIC ENRICHMENT OF SULFUR HEXAFLUORIDE IN SULFUR -34 BY MULTIPLE ABSORPTION OF CARBON DIOXIDE LASER RADIATION. 20-64

ENSEMBLE
MEAN, MEAN SQUARE AND MOST PROBABLE MOMENTUM FOR A RELATIVISTIC MAXWELLIAN ENSEMBLE. 18-24

ENTHALPY
ENTHALPY OF FORMATION OF HAFNIUM DIOXIDE. 7-6

ENTROPY
ENTROPY CORRELATION FOR THE 4F AND 5F METALS: RELATION OF ELECTRONIC PROPERTIES TO METALLIC RADII, MAGNETIC TRANSFORMATIONS AND THERMODYNAMICS OF VAPORIZATION. 4-21

EFFECT OF VARIABLE ENTROPY IN THE THEORY OF SPHERICALLY CONVERGENT DETONATION WAVES. 15-8

ENVIRONMENT
POOL BOILING HEAT TRANSFER TO LIQUID HELIUM AND LIQUID NITROGEN IN A NEARLY ZERO GRAVITY ENVIRONMENT. 8-36

ECOLOGICAL CONSIDERATIONS OF THE BEHAVIOR OF PLUTONIUM IN THE ENVIRONMENT. 17-16

BEHAVIOR OF PLUTONIUM IN THE ENVIRONMENT. 17-3

PLUTONIUM: ASSESSMENT OF THE OCCUPATIONAL ENVIRONMENT. 17-44

ENVIRONMENTAL
CHEMISTRY OF PLUTONIUM IN RELATION TO ITS BEHAVIOR IN BIOLOGICAL AND ENVIRONMENTAL SYSTEMS. 7-3

ENVIRONMENTAL AND TECHNOLOGICAL IMPLICATIONS OF A THETA PINCH FUSION POWER PLANT. 10-33

ENVIRONMENTAL GEOLOGY IN DEVELOPMENT OF NUCLEAR ENERGY. 11-14

ELEMENTS OF QUALITY ASSURANCE IN ENVIRONMENTAL SURVEILLANCE. 17-17

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES OCTOBER 1 - DECEMBER 31, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-20

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, APRIL 1 - JUNE 30, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-21

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JANUARY 1 - MARCH 31, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-22

ENVIRONMENTAL ISSUES RELATED TO ENERGY RESOURCE DEVELOPMENT IN NEW MEXICO 17-23

ENVIRONMENTAL PATHWAYS OF PLUTONIUM INTO TERRESTRIAL PLANTS AND ANIMALS. 17-24

ENVIRONMENTAL SURVEILLANCE AT LOS ALAMOS DURING 1974. 17-25

PASSIVE ENVIRONMENTAL NEUTRON DOSIMETER. 17-34

PROGRESS REPORT. ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES. JULY 1 THROUGH SEPTEMBER 30, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-47

STUDIES OF PLUTONIUM, AMERICIUM, AND URANIUM IN ENVIRONMENTAL MATRICES. 17-58

THEORETICAL, ANALYTICAL, AND STATISTICAL INTERPRETATION OF ENVIRONMENTAL DATA. 17-59

ENVIRONMENTAL EVALUATION OF SOLID RADIOACTIVE WASTE DISPOSAL AREAS 30-24

OMNIBUS ENVIRONMENTAL ASSESSMENT. 30-53

PROPOSAL TO DESIGNATE CERTAIN LAND AREAS OF THE LOS ALAMOS SCIENTIFIC LABORATORY AS A NATIONAL ENVIRONMENTAL RESEARCH PARK. 30-66

ENVIRONMENTS
TRANSDUCER TECHNOLOGY FOR DEEP BOREHOLE GEOTHERMAL ENVIRONMENTS. 11-59

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES OCTOBER 1 - DECEMBER 31, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-20

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, APRIL 1 - JUNE 30, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-21

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JANUARY 1 - MARCH 31, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-22

PLUTONIUM RELEASE RATES FROM PLUTONIUM -238 FUELS EXPOSED TO AQUATIC ENVIRONMENTS. 17-42

PROGRESS REPORT. ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JULY 1 THROUGH SEPTEMBER 30, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-47

ENZYME
RAPID DISEASE SCREENING WITH ENZYME LABELED ANTIBODIES. 5-123

SEROLOGIC TESTING WITH ENZYME LABELED ANTIBODIES (ELA). 5-132

KINETIC PROPERTIES O' 'NZYME HIGHLY ENRICHED IN CARBON -13. 5-86

EQUATION
EQUATION OF STATE OF NITROGEN TO 21 KBAR FROM SIMULTANEOUS MEASUREMENT OF P V T AND SOUND VELOCITY. 4-22

HUGONIOT EQUATION OF STATE OF THE LANTHANIDES. 4-29

SOUND VELOCITY AND THE EQUATION OF STATE OF NITROGEN(2) TO 22 KBAR. 4-63

ON THE SPECTRUM OF THE INHOMOGENEOUS VLASOV EQUATION. 10-92

EQUATION OF STATE FOR NONIDEAL EXPLOSIVES. 15-9

DIRECT SOLUTION OF THE DISCRETE POISSON EQUATION IN 0(N-SQUARED) OPERATIONS. 20-27

ON THE MULTIPLICITY OF SOLUTIONS OF A DIFFERENTIAL EQUATION ARISING IN CHEMICAL REACTOR THEORY. 21-60

SIGNIFICANCE ARITHMETIC: APPLICATION TO A PARTIAL DIFFERENTIAL EQUATION. 21-73

METHOD OF CHARACTERISTICS FOR THE TRANSPORT EQUATION SOLUTION. 24-15

ONETRAN: A DISCRETE ORDINATES FINITE ELEMENT CODE FOR THE SOLUTION OF THE ONE DIMENSIONAL MULTIGROUP TRANSPORT EQUATION. 24-17

BETHE-SALPETER EQUATION FOR NUCLEON -NUCLEON SCATTERING. MATRIX PADE APPROXIMANTS. 2. 25-20

FREE SPACE BOUNDARY CONDITIONS FOR THE TIME DEPENDENT WAVE EQUATION. 27-7

EQUATIONS
MOLECULAR EQUATIONS OF STATE FOR DENSE DUST CLOUDS. 3-27

NEUTRON STAR MODELS WITH REALISTIC HIGH DENSITY EQUATIONS OF STATE. 3-28

SELF CONSISTENT PHONON CALCULATIONS AND EQUATIONS OF STATE OF SOLID HYDROGEN AND DEUTERIUM. 4-60

SYSTEMATIC AND GRAPHICAL METHOD FOR GENERATING THE KINETIC EQUATIONS GOVERNING THE GROWTH OF AGGREGATES. 6-16

DESCRIPTION OF COLLISIONLESS PLASMAS BY CLASSICAL FIELD EQUATIONS. 10-17

NUMERICAL METHODS FOR SOLUTION OF THE INTEGRAL EQUATIONS OF MULTI-DIMENSIONAL RADIATION TRANSPORT. 18-31

NUMERICAL COMPARISON OF INTEGRAL EQUATIONS OF THE FIRST AND SECOND KIND FOR CONFORMAL MAPPING. 21-54

ON FINITE ELEMENTS FOR EQUATIONS OF EVOLUTION. 21-59

BHABHA FIRST ORDER WAVE EQUATIONS. 2. MASS AND SPIN COMPOSITION, HAMILTONIANS, AND GENERAL SAKATA-TAKETANI REDUCTIONS. 25-21

BHABHA FIRST ORDER WAVE EQUATIONS. 3. POINCARE GENERATORS. 25-22

EQUILIBRIA
CHEMICAL EQUILIBRIA IN HOT AIR WITH MOISTURE, SALT, AND VAPORIZED METAL CONTAMINANTS. 7-2

STABILITY ANALYSIS OF SHARP BOUNDARY VLASOV FLUID SCREW PINCH EQUILIBRIA. 10-128

STABILITY ANALYSIS OF SHARP BOUNDARY VLASOV FLUID SCREW PINCH EQUILIBRIA. 10-129

MHD SPECTRUM OF DIFFUSE TOKAMAK EQUILIBRIA. 10-80

PHASE EQUILIBRIA OF RICHTERITE AND FERRORICHTERITE. 11-40

EQUILIBRIUM
TIME DEPENDENT CALCULATIONS OF EQUILIBRIUM AND STABILITY PROBLEMS IN SCYLLAC AND TOKAMAK GEOMETRIES. 10-149

EQUILIBRIUM AND STABILITY OF HIGH BETA DIFFUSE TOKAMAKS. 10-34

INFLUENCE OF SELF FIELDS ON THE VLASOV EQUILIBRIUM AND STABILITY PROPERTIES OF RELATIVISTIC ELECTRON BEAM - PLASMA SYSTEMS. 10-59

PLASMA EQUILIBRIUM DISTORTIONS IN THE SCYLLAC SECTOR. 10-98

PLASMA EQUILIBRIUM IN THE SCYLLAC FEEDBACK SECTOR. 10-99

FOURIER TRANSFORM CARBON -13 NUCLEAR MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 1. EQUILIBRIUM QUOTIENTS FROM RELATIVE ABUNDANCES OF SOLUTION SPECIES. 14-7

EQUILIBRIUM DEFORMATIONS AND EXCITATION ENERGIES FOR NONCOLLECTIVE STATES IN ODD Z RARE EARTH NUCLEI. 25-67

EQUIPMENT
GENERAL EQUIPMENT AND TECHNIQUES. 30-30

BUILDING D PLUTONIUM PURIFICATION: EQUIPMENT DRAWINGS. 30-6

EQUIPPED
INVESTIGATION OF PERFORMANCE OF US ARMY FILTER CANISTERS AND RESPIRATORS EQUIPPED WITH PROTOTYPE FACEPIECES. 17-29

ERBIUM
ERBIUM -158 TO HOLMIUM -158 DECAY SCHEME AND Q-BETA VALUE. 25-68

ERRATUM
EXTRACTION OF NEUTRON - NEUTRON SCATTERING LENGTH FROM THE REACTION PI -DEUTERON TO GAMMA NEUTRON - NEUTRON. ERRATUM. 22-15

ERUPTIONS
MECHANISM OF CALDERA FORMING ASH BLAST ERUPTIONS. 11-29

ERYTHROCYTE
IMMUNODIFFUSION IN GELS CONTAINING ERYTHROCYTE ANTIGEN. 1. THEORY FOR DIFFUSION OF ANTISERUM FROM A CIRCULAR WELL. 5-76

ESTIMATE
ESTIMATE OF THE (Z-ALPHA)2 - ALPHA -2 VACUUM POLARIZATION TERM IN MUONIC LEAD. 22-13

ESTIMATED
SEISMICITY OF LOS ALAMOS AREA ESTIMATED FROM FAULT MOVEMENTS. 11-49

LICHEN FORAGE INGESTION RATES OF FREE ROAMING CARIBOU ESTIMATED WITH FALLOUT CESIUM -137. 30-42

ESTIMATES
CONVERGENCE ESTIMATES FOR GALERKIN METHODS FOR VARIABLE COEFFICIENT INITIAL VALUE PROBLEMS. 21-27

ESTIMATES OF CLUSTER SIZE IN HIGH ENERGY HADRON COLLISIONS. 25-69

ESTIMATING
CESIUM KINETICS DATA FOR ESTIMATING FOOD CONSUMPTION RATES OF TROUT. 5-34

ESTIMATION
BAYESIAN RELIABILITY ESTIMATION: STATE OF THE ART FOR THE TIME DEPENDENT CASE. 21-10

MODELING MAXIMUM LIKELIHOOD ESTIMATION OF AVAILABILITY. 21-46

ETCHING
CATHODIC VACUUM ETCHING TECHNIQUES FOR GRAPHITE FUEL ELEMENT SECTIONS. 30-9

ETHANOL
CIRCULAR DICHROISM SPECTRA OF POLY D(AC)-D(GT)*, POLY R(AC)-R(GU)*, AND HYBRIDS POLY D(AC)-R(GU)* AND POLY R(AC)-D(GT)* IN THE PRESENCE OF ETHANOL. 5-40

ETHYLENE
DISSOCIATIVE EXCITATION CHANNELS IN THE INTERACTION OF ARGON(3-P-0,2) AND HELIUM (2-3-S) METASTABLE ATOMS WITH METHANE, ETHYLENE, ACETYLENE, AND BENZENE. 6-6

EULERIAN-LAGRANGIAN
CALCULATING THREE DIMENSIONAL FLUID FLOWS AT ALL SPEEDS WITH AN EULERIAN-LAGRANGIAN COMPUTING MESH. 18-3

EUROPIA
EUROPIA HEATING IN CONTROL RODS. 28-10

EV
REACTIONS OF DIATOMIC RARE GAS IONS WITH RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 50 EV. 4-54

EVACUATED
EVACUATED REFRIGERANT CONTAINER AS A SOURCE OF VACUUM FOR AIR SAMPLING. 17-26

EVALUATIONS
SOME EVALUATIONS OF MAGNETOSPHERIC ELECTRIC FIELDS AND THEIR EFFECTS. 1-27

EVENTS
DISTRIBUTION OF PLASMA SHEET THINNING AND RECOVERY EVENTS IN THE MAGNETOTAIL SURVEYED BY THE IMP-6 SATELLITE. 1-3

BIOCHEMICAL EVENTS DURING THE MAMMALIAN CELL CYCLE. 5-10

SEQUENTIAL BIOCHEMICAL EVENTS IN PREPARATION FOR DNA REPLICATION AND MITOSIS. 5-130

LOW ALTITUDE FIREBALL CALCULATIONS. 1. COMPARISONS WITH DATA FOR DOMINIC EVENTS. 18-23

EVIDENCE
EVIDENCE FOR LOCAL ION HEATING IN SOLAR WIND HIGH SPEED STREAMS. 1-8

EVIDENCE FOR THE REGULATION OF SOLAR WIND HEAT FLUX AT 1 AU. 1-9

DISTRIBUTION OF SUPERNOVA REMNANTS IN THE GALAXY: EVIDENCE FOR A TUNNEL SYSTEM. 3-13

EVIDENCE THAT X IRRADIATION INHIBITS DNA REPLICON INITIATION IN CHINESE HAMSTER CELLS. 5-62

EVIDENCE FOR THE EXISTENCE OF FAULTING IN A SPLAT COOLED DELTA PLUTONIUM(TITANIUM) ALLOY. 9-10

ORIGIN OF ANDESITE AND DACITE: EVIDENCE OF MIXING AT GLASS MOUNTAIN IN CALIFORNIA AND OTHER CIRCUM-PACIFIC VOLCANOES. 11-35

NUCLEAR CHARGE DISTRIBUTIONS IN THE MASS 60 REGION: NEW EVIDENCE FROM MUONIC ISOTOPE SHIFT MEASUREMENTS. 25-140

EXPERIMENTAL EVIDENCE FOR THE EXISTENCE OF THE CHARGE EXCHANGE MODE OF GIANT RESONANCES. 25-74

EVIDENCE FOR ORDER DISORDER IN PLUTONIUM CARBIDE (0.80) AT LOW TEMPERATURES THROUGH SPECIFIC HEAT MEASUREMENTS. 29-2

EVIDENT
THEORETICAL COLORS FOR CEPHEIDS WITH TRANSFER EFFECTS NOW EVIDENT IN THEIR LIGHT CURVES. 3-45

EVOLUTION
SOLAR WIND STREAM EVOLUTION AT LARGE HELIOCENTRIC DISTANCES. EXPERIMENTAL DEMONSTRATION AND THE TEST OF A MODEL. 1-26

NUMERICAL STUDIES OF THE THERMAL EVOLUTION OF INTRUSIONS IN RELATIONSHIP TO OBSERVED TEMPERATURES IN GT-2. 11-34

ON FINITE ELEMENTS FOR EQUATIONS OF EVOLUTION 21-59

EXAMINATION
SHOCK WAVE TECHNIQUES FOR THE EXAMINATION OF PHASE TRANSITIONS 18-44

EXAMINATION OF FAST REACTOR FUELS. FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS. JULY 1 - SEPTEMBER 30, 1975. 28-11

EXAMINATION OF FAST REACTOR FUELS. FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS. APRIL - JUNE 30, 1975, AND FY 1975 28-12

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS. FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS. JANUARY 1 THROUGH MARCH 31, 1975. 28-32

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS. FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS. OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-33

EXAMINATIONS
CRIT: A COST ACCOUNTING PROGRAM FOR POSTIRRADIATION EXAMINATIONS OF FAST BREEDER REACTOR MATERIALS. 2-5

EXCAVATION
APPARATUS AND METHOD FOR LARGE TUNNEL EXCAVATION IN HARD ROCK 11-4

RAPID EXCAVATION BY ROCK MELTING 11-45

EXCEPTIONS
REMARKS ON SOME EXCEPTIONS TO THE ENGEL-BREWER RULES. 9-22

EXCHANGE
HIGH ALTITUDE LOSS CONE AND CHARGE EXCHANGE CALCULATIONS, AND COMPARISON WITH STARFISH DATA. 4-26

R-MATRIX THEORY FOR ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS. 2. ELECTRON - HYDROGEN(2) SCATTERING IN THE STATIC EXCHANGE MODEL. 4-53

ULTRAVIOLET CHARGE EXCHANGE ENERGY LOSS PARTITION AS A FUNCTION OF BURST ALTITUDE AND YIELD TO MASS RATIO. 4-68

ABSTRACTION VERSUS EXCHANGE IN THE REACTION OF HYDROGEN WITH DEUTERIUM BROMIDE. 6-1

ON THE THERMAL RATE COEFFICIENT AND ACTIVATION ENERGY OF THE IODINE + IODINE(2) ATOM EXCHANGE REACTION. 6-12

PARADOX: THE THERMAL RATE COEFFICIENT FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION 6-13

QUASICLASSICAL TRAJECTORY STUDY OF THE MOLECULAR BEAM KINETICS OF THE DEUTERIUM ATOM - HYDROGEN HALIDE EXCHANGE REACTION. 6-15

TRANSIENT CHARGE EXCHANGE EFFECTS IN A NEUTRAL GAS LAYER. 10-151

REVIEW OF SOFT X RAY LASERS USING CHARGE EXCHANGE. 20-133

BEAM EMITTANCE GROWTH IN A PROTON STORAGE RING EMPLOYING CHARGE EXCHANGE INJECTION. 22-4

PION CHARGE EXCHANGE ON CARBON -13. 22-42

MESON EXCHANGE CURRENTS IN NEUTRON -PROTON BREMSSTRAHLUNG. 25-117

MULTIPLE EXCHANGE AND HIGH ENERGY FIXED ANGLE SCATTERING. 25-123

PION CHARGE EXCHANGE ON TRITIUM. 25-167

PION CHARGE EXCHANGE REACTIONS WITH NUCLEI. 25-168

PION CHARGE EXCHANGE SCATTERING FROM LIGHT NUCLEI. 25-169

APPROXIMATION OF MULTI-CENTRE INTEGRALS ARISING IN PROTON - HYDROGEN CHARGE EXCHANGE CALCULATIONS. 25-17

PION CHARGE EXCHANGE SCATTERING FROM LITHIUM -7, BORON -10, AND CARBON -13 25-170

ROLE OF TWO NUCLEON SHORT RANGE CORRELATIONS IN PION CHARGE EXCHANGE REACTIONS WITH NUCLEI. 25-198

(PI,PI,N) PUZZLE. EFFECTS OF PION CHARGE EXCHANGE. 25-2

SURVEY OF PION CHARGE EXCHANGE REACTIONS WITH NUCLEI. 25-213

EFFECTS OF NUCLEON CHARGE EXCHANGE ON THE PION KNOCKOUT PUZZLE. 25-54

EXCHANGE EFFECTS FROM WEAK RADIATIVE MESONIC TRANSITIONS IN PARITY VIOLATING NUCLEAR PROCESSES. 25-71

EXPERIMENTAL EVIDENCE FOR THE EXISTENCE OF THE CHARGE EXCHANGE MODE OF GIANT RESONANCES. 25-74

EXCHANGED
EXPANSION OF THE NUCLEON - NUCLEON SCATTERING AMPLITUDE IN EXCHANGED PARTIAL WAVES. 25-73

EXCHANGER
KIWI B HEAT EXCHANGER AND NEUTRONICS -DYNAMICS ANALYSIS. 30-37

EXCITATION
ASSOCIATIVE IONIZATION AND EXCITATION TRANSFER IN HELIUM. 4-2

COLLISIONS OF NEON*(3S) AND NEON(+) WITH NEON. EXCITATION AND CHARGE TRANSFER, ELASTIC SCATTERING, AND DIFFUSION. 4-9

DISSOCIATIVE EXCITATION CHANNELS IN THE INTERACTION OF ARGON(2P-0,2) AND HELIUM (2-3-S) METASTABLE ATOMS WITH METHANE, ETHYLENE, ACETYLENE, AND BENZENE. 6-6

EQUILIBRIUM DEFORMATIONS AND EXCITATION ENERGIES FOR NONCOLLECTIVE STATES IN ODD Z RARE EARTH NUCLEI 25-67

EXCITATION ENERGIES OF LEVELS IN ALUMINUM -27 AND SILICON -28. 25-72

EXCITATIONS
EXPERIMENTAL STUDY OF THE PAIRING MODE OF ELEMENTARY EXCITATIONS. 25-76

EXCITED
CONFIGURATION INTERACTION STUDIES OF OZONE AND OZONE POSITIVE ION, GROUND AND EXCITED STATES. 4-12

CALCULATIONS ON THE EXCITED STATES OF SMALL MOLECULES. 4-8

MASS AND KINETIC ENERGY MEASUREMENTS OF FRAGMENTS FROM THE ISOMERIC AND EXCITED STATE FISSION OF AMERICIUM -242. 16-7

OBSERVATIONS OF EXCITED STATE ABSORPTION IN ED-2 NEODYMIUM GLASS. 20-106

2P (H) STATES IN LEAD -209 EXCITED BY THE METASTABLE BISMUTH -210 (TRITON, ALPHA) REACTION. 25-5

EXCITON
EXCITON TRANSFER IN DNA. 5-63

EXCRETION
RETENTION AND EXCRETION OF COBALT -60 IN MICE, RATS, MONKEYS, AND DOGS. 5-128

EXOTIC
HIGH ORDER VACUUM POLARIZATION IN EXOTIC ATOMS. 4-27

ON THE VALIDITY OF THE SLATER APPROXIMATION IN ELECTRON SCREENING IN EXOTIC ATOMS. 4-47

(NEUTRON, FISSION) CROSS SECTIONS FOR EXOTIC ACTINIDES. 25-1

EXPANDING
SUPERSONIC FLOW RESULTING FROM THE INTERACTION OF A HIGH FREQUENCY CAPACITOR OR ELECTROMAGNETIC FIELD WITH AN EXPANDING PLASMA. 10-141

ION WAVE TURBULENCE INDUCED BY AN EXPANDING MULTI-COMPONENT PLASMA. 20-61

EXPANSION
TRANSIENT FLOW AND EXPANSION OF A PINCH DISCHARGE PLASMA IN SELF INDUCED MAGNETIC FIELDS. 10-152

PARTIAL WAVE EXPANSION OF THE INDUCED COLLISION KERNEL. 18-36

CONTINUED FRACTION EXPANSION OF ALGEBRAIC NUMBERS. 21-26

EXPANSION OF THE NUCLEON - NUCLEON SCATTERING AMPLITUDE IN EXCHANGED PARTIAL WAVES. 25-73

CRYOGENIC THERMAL EXPANSION OF Y-12 GRAPHITE FUEL ELEMENTS 30-16

EXPANSIONS
R MATRIX THEORY FOR ELECTRON - ATOM AND ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS. 4-52

R-MATRIX THEORY FOR ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS. 2. ELECTRON - HYDROGEN(2) SCATTERING IN THE STATIC EXCHANGE MODEL. 4-53

EXPERIENCE
OPERATING EXPERIENCE WITH A LIQUID HYDROGEN FUELED VEHICLE. 8-34

EXPERIENCE RELATED TO THE SAFETY OF ADVANCED LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL ELEMENTS. 17-28

SAMPLING OF SOILS FOR RADIOACTIVITY: PHILOSOPHY, EXPERIENCE, AND RESULTS. 17-55

INSTRUMENTATION OPERATING EXPERIENCE ON LAMPF MAIN BEAM LINES. 22-21

OPERATING EXPERIENCE WITH LAMPF MAIN BEAM LINES INSTRUMENTATION AND CONTROL SYSTEM. 22-36

EXPERIMENT
L = 6.6 OOSIK BARIUM PLASMA INJECTION EXPERIMENT AND MAGNETIC STORM OF MARCH 7, 1972. 1-16

L = 6.7 QUIET TIME BARIUM SHAPED CHARGE INJECTION EXPERIMENT CHACHALACA. 1-17

PLASMA PARAMETERS AND STABILITY OF THE ZT-1 PINCH EXPERIMENT 10-102

PROGRAMMING AND STABILITY OF THE ZT-1 EXPERIMENT 10-107

RESONANT HEATING EXPERIMENT. 10-113

RESULTS FROM THE LASL IMPLOSION HEATING EXPERIMENT. 10-114

STAGED THETA PINCH EXPERIMENT. 10-137

DESIGN OF THE ZT-1 TOROIDAL PINCH EXPERIMENT 10-18

LASER - PLASMA INTERACTIONS IN THE SCYLLA I-C EXPERIMENT: PRELIMINARY ANALYSIS. 10-68

MAGNETIC FIELD AND PLASMA DENSITY MEASUREMENTS IN THE STAGED THETA PINCH EXPERIMENT. 10-77

CURRENT STATUS OF THE LOS ALAMOS DRY HOT ROCK GEOTHERMAL ENERGY EXPERIMENT. 11-10

PLANE SHOCK INITIATION OF DETONATION: COMPUTER SIMULATION OF GAS GUN EXPERIMENT. 15-20

EXPERIMENTAL
SOLAR WIND STREAM EVOLUTION AT LARGE HELIOCENTRIC DISTANCES: EXPERIMENTAL DEMONSTRATION AND THE TEST OF A MODEL. 1-26

EXPERIMENTAL AND CALCULATED ELECTRONIC STRUCTURE OF GASEOUS CHROMIUM OXYFLUORIDE AND CHROMIUM OXYCHLORIDE. 4-23

CALCULATED AND EXPERIMENTAL ELECTRONIC STRUCTURE OF GASEOUS MANGANESE OXYFLUORIDE AND MANGANESE OXYCHLORIDE. 4-7

INITIAL COMPARATIVE RESPONSE OF EXPERIMENTAL TUMORS TO PEAK PIONS AND X RAYS. 5-81

EXPERIMENTAL STUDY OF AREA WAVES IN THE 8 METER SCYLLAC FEEDBACK SECTOR. 10-35

EXPERIMENTAL STUDY OF PLASMA END LOSS FROM A LINEAR THETA PINCH 9-36

EXPERIMENTAL DETERMINATION OF PHOTOFISSION NEUTRON MULTIPLICITIES FOR EIGHT ISOTOPES IN THE MASS RANGE 232 A 239. 16-7

DISPOSITION OF TA-33-21, A PLUTONIUM CONTAMINATED EXPERIMENTAL FACILITY. 17-15

THEORETICAL AND EXPERIMENTAL STUDIES OF STRONG SHOCK WAVES IN AIR. 18-48

LAMPF EXPERIMENTAL AREA BEAM CURRENT MONITORS. 22-23

RECENT EXPERIMENTAL RESULTS OF THE MESIC CHEMISTRY PROGRAM AT LAMPF. 22-50

FAILURE OBSERVATIONS ON ENCAPSULATED EXPERIMENTAL MARK-II FUEL ELEMENTS IRRADIATED IN EBR-II. 23-21

EXPERIMENTAL EVIDENCE FOR THE EXISTENCE OF THE CHARGE EXCHANGE MODE OF GIANT RESONANCES. 25-74

EXPERIMENTAL SEARCH FOR CONDENSED NUCLEAR STATES. 25-75

EXPERIMENTAL STUDY OF THE PAIRING MODE OF ELEMENTARY EXCITATIONS. 25-76

EXPERIMENTAL STUDY OF THE PI+ + DEUTERON TO PROTON + PROTON REACTION AT PION ENERGIES OF 40, 50, AND 60 MEV. 25-77

EXPERIMENTALLY
EVALUATION OF SOLUBLE ANTIGEN FLUORESCENT ANTIBODY TEST FOR ANTIBODIES TO TRICHINELLA SPIRALIS IN EXPERIMENTALLY INFECTED SWINE. 5-61

EXPERIMENTS
PLASMA EXPERIMENTS IN THE SCYLLAC TOROIDAL THETA PINCH. 10-100

PLASMA EXPERIMENTS ON THE HIGH DENSITY SCYLLA I-C THETA PINCH. 10-101

SCYLLAC DEBATED FEEDBACK SECTOR EXPERIMENTS 10-118

SCYLLAC FEEDBACK STABILIZATION EXPERIMENTS. 10-119

SCYLLAC SECTOR EXPERIMENTS. 10-122

STAGED THETA PINCH EXPERIMENTS. 10-138

STAGED THETA PINCH EXPERIMENTS. 10-139

CAPACITOR REQUIREMENTS FOR CONTROLLED THERMONUCLEAR EXPERIMENTS AND REACTORS. 10-5

IMPLOSION HEATING STUDIES IN THE SCYLLA 1B, IMPLOSION HEATING, AND STAGED THETA PINCH EXPERIMENTS. 10-56

INITIAL LASER PLASMA INTERACTION EXPERIMENTS IN THE SCYLLA I-C THETA PINCH. 10-60

PROJECTILE VELOCITY MEASUREMENTS AND QUARTZ AND MANGANIN GAUGE PRESSURE DETERMINATIONS IN GAS GUN EXPERIMENTS. 15-22

THEORETICAL SIMULATIONS OF THE GAS EXPLOSIVE SIMULATION TECHNIQUE (GEST) EXPERIMENTS. 15-26

PULSED HYDROGEN FLUORIDE LASER OSCILLATOR AMPLIFIER EXPERIMENTS. 20-124

X RAY PINHOLE CAMERAS FOR LASER PLASMA EXPERIMENTS. 20-16.

INDICATIONS OF STRONGLY FLUX LIMITED ELECTRON THERMAL CONDUCTION IN LASER TARGET EXPERIMENTS. 20-55

LASER FUSION EXPERIMENTS AT LOS ALAMOS, PART 2: THE LASL CARBON DIOXIDE SHORT PULSE OSCILLATOR - AMPLIFIER SYSTEM. 20-70

COINCIDENCE EXPERIMENTS AT INTERMEDIATE ENERGIES. 22-9

EXPERIMENTS ON URANIUM LOSS FROM URANIUM LOADED GRAPHITE AT ELEVATED TEMPERATURES 23-20

BENCHMARK EXPERIMENTS FOR NUCLEAR DATA. 25-19

SOME TOPICS CONCERNING NEUTRON - NEUTRON AND NEUTRON - DEUTERON EXPERIMENTS AT MEDIUM ENERGY. 25-206

EXPLANATION
EXPLANATION OF AN OBSERVED DIRECTION DEPENDENT SUPERFLUID FLOW. 8-17

EXPLICIT
CANONICAL RESOLUTION OF THE MULTIPLICITY PROBLEM FOR U(3): AN EXPLICIT AND COMPLETE CONSTRUCTIVE SOLUTION. 21-15

EXPLODING
EXPLODING LINER INITIATED DENSE Z PINCH. 10-37

EXPLOITING
EXPLOITING VECTOR MODE IN A SISD COMPUTER. 21-32

EXPLORATORY
ROCK MELTING HOLE PRODUCTION SYSTEMS FOR EXPLORATORY AND PRODUCTION GEOTHERMAL ENERGY WELLS. 11-47

EXPLOSION
DEPENDENCE OF THE SECOND EXPLOSION LIMITS OF HYDROGEN - FLUORINE - OXYGEN -HYDROGEN FLUORIDE MIXTURES ON A HOT ATOM EFFECT 6-5

FLUORINE - HYDROGEN EXPLOSION AND ITS POSSIBLE UTILIZATION IN LARGE CHEMICAL LASERS. 6-9

APPROXIMATE SOLUTION OF THE ADIABATIC EXPLOSION PROBLEM. 15-1

EXPLOSION POWER - AN ENERGY SOLUTION 30-25

JULY 16TH NUCLEAR EXPLOSION SPACE - TIME RELATIONSHIPS. 30-34

JULY 16TH NUCLEAR EXPLOSION. BLAST MEASUREMENTS WITH CONDENSER GAUGES 30-35

ON CONTAINING A NUCLEAR EXPLOSION. 30-54

POSSIBLE DETECTION OF ATOMIC BOMB EXPLOSION BY PRESSURE MEASUREMENTS AT THE ANTIPODES. 30-63

EXPLOSIONS
COMPILATION OF SPECTROSCOPIC OBSERVATION OF AIR AROUND ATOMIC BOMB EXPLOSIONS. 30-13

EXPLOSIVE
MECHANISM AND TYPES OF EXPLOSIVE BEHAVIOR IN HYDROGEN - FLUORINE SYSTEMS. 6-11

EXPLOSIVE LOGIC CIRCUITS. 15-10

MAGNIFICATION RATIOS FOR EXPLOSIVE DRIVEN SHOCKS. 15-17

THEORETICAL SIMULATIONS OF THE GAS EXPLOSIVE SIMULATION TECHNIQUE (GEST) EXPERIMENTS. 15-26

USE OF HIGH ENERGY, SHORT PULSE EXPLOSIVE GENERATORS TO DRIVE ELECTROMAGNETIC IMPLOSIONS. 15-29

EXPLOSIVE LASER. 20-41

INTRODUCTION TO EXPLOSIVE MAGNETIC FLUX COMPRESSION GENERATORS. 27-8

EXPLOSIVES
HIGH TEMPERATURE VACUUM THERMAL STABILITY TESTS OF EXPLOSIVES. 15-13

THERMOCHEMISTRY OF EXPLOSIVES. 15-27

DETERMINATION OF BINDER DEGRADATION IN PLASTIC BONDED EXPLOSIVES 15-4

EQUATION OF STATE FOR NONIDEAL EXPLOSIVES. 15-9

DETONATION OF HIGH EXPLOSIVES IN LAGRANGIAN HYDRODYNAMIC CODES USING THE PROGRAMMED BURN TECHNIQUE. 18-9

FEASIBILITY STUDY OF THE DISPOSAL OF A ROVER REACTOR WITH HIGH EXPLOSIVES. 30-28

EXPOSED
AGE RESPONSE FOR LINE CHO CHINESE HAMSTER CELLS EXPOSED TO X IRRADIATION AND ALPHA PARTICLES FROM PLUTONIUM. 5-1

RECOVERY RATE AND RESIDUAL INJURY IN MONKEYS EXPOSED TO LARGE DOSES OF RADIATION BY FRACTIONATION. 5-125

URANIUM IN THE TISSUE OF OCCUPATIONALLY EXPOSED WORKERS. 5-145

PLUTONIUM RELEASE RATES FROM PLUTONIUM -238 FUELS EXPOSED TO AQUATIC ENVIRONMENTS. 17-42

EXPOSURE
SOME OBSERVATIONS ON THE COMPARATIVE EFFECTS OF INBREEDING AND WHOLE BODY X RAY EXPOSURE TO SEVENTY GENERATIONS OF MICE. 5-134

EXPRESSION
COMPRESSION AND BONDING OF ICE VII AND AN EMPIRICAL LINEAR EXPRESSION FOR THE ISOTHERMAL COMPRESSION OF SOLIDS. 4-11

EXTENDING
EXTENDING THE TEMPERATURE RANGE OF THE HTR. 28-13

EXTENSION
EXTENSION OF THE MRC MULTIBURST. 18-13

EXTENSIVE
EXTENSIVE SPATIAL DISTRIBUTION OF 569.4 NM CALCIUM XV EMISSION IN THE SOLAR CORONA DURING THE ECLIPSE OF 1973. 3-15

EXTERNAL
RELATIVISTIC LINEAR THEORY IN THE ABSENCE OF EXTERNAL FIELDS. 20-131

EXTERNAL PRESSURIZATION AS A MEANS OF UPGRADING GLASS MICROBALLOONS. 20-42

LINEAR THEORY OF A COLD RELATIVISTIC BEAM PROPAGATING ALONG AN EXTERNAL MAGNETIC FIELD. 20-85

BEAM INTENSITY MONITORING FOR THE EXTERNAL PROTON BEAM AT LAMPF. 22-5

TESTING AND CALIBRATION OF A FARADAY CUP AND OTHER INTENSITY MONITORS FOR THE EXTERNAL PROTON BEAM AT LAMPF. 22-52

EXTRACTION
AMPLIFIERS INVOLVING TWO PHOTON ENERGY EXTRACTION SCHEMES. 20-6

EXTRACTION OF NEUTRON - NEUTRON SCATTERING LENGTH FROM THE REACTION PI -DEUTERON TO GAMMA NEUTRON - NEUTRON. 22-14

EXTRACTION OF NEUTRON - NEUTRON SCATTERING LENGTH FROM THE REACTION PI -DEUTERON TO GAMMA NEUTRON - NEUTRON. ERRATUM. 22-15

EXTRACTION OF FISSION PRODUCTS FROM ROVER FUEL ELEMENTS. 30-26

EXTRAPOLATED
EXTRAPOLATED COLLOCATION FOR TWO POINT BOUNDARY VALUE PROBLEMS USING CUBIC SPLINES. 21-33

EXTREMELY
SPONTANEOUS MAGNETIC ORDER IN EXTREMELY DILUTE GOLD - IRON ALLOYS. 8-42

E2
OBSERVATION OF THE E2 NUCLEAR RESONANCE EFFECT IN IONIC CADMIUM -112. 22-34

HADRONIC ATOMS AND TICKLISH NUCLEI: THE E2 NUCLEAR RESONANCE EFFECT 25-88

HADRONIC ATOMS AND TICKLISH NUCLEI: THE E2 NUCLEAR RESONANCE EFFECT. 25-89

E3
E3 ISOMER OF SILVER -101. 25-50

E3 ISOMERS OF YTTRIUM -93 AND SILVER -101 25-51

F
MELTING AND COHESION IN F ELECTRON METALS. 4-37

MEASUREMENT AND INTERPRETATION OF GAMMA(N)/GAMMA(F) FOR ACTINIDE NUCLEI. 25-111

GAMMA(F)/GAMMA(N) FOR ACTINIDE NUCLEI. 25-86

F-P
COMPARISON OF (TRITON,HELIUM -3), (HELIUM -3,TRITON) AND (HELIUM -3,PROTON) REACTIONS OF F-P SHELL NUCLEI. 25-32

FABIAN
REPLY TO NOTE BY A. FABIAN. 3-38

FABRICATING
UNIQUE REFRACTORY TECHNIQUES FOR FABRICATING SUBTERRENE PENETRATORS. 11-69

FABRICATION
FABRICATION AND CALIBRATION OF THIN PLASTIC SCINTILLATOR X RAY DETECTORS. 19-7

STATUS REPORT. LASER FUSION TARGET FABRICATION. 30 APRIL 1974. 20-139

FABRICATION OF LITHIUM DEUTERIUM (0.5) TRITIUM (0.5) MICROSPHERES FOR USE AS LASER FUSION TARGETS. 20-43

LASER FUSION TARGET FABRICATION: APPLICATION OF A POLYMERIC ABLATOR COATING TO A BALL AND DISK TARGET DESIGN BY THE PHYSICAL VAPOR DEPOSITION OF POLYETHYLENE. 20-66

RELATION OF FABRICATION PARAMETERS TO RTG FUEL PROPERTIES. 23-48

FABRICATION OF URANIUM LOADED GRAPHITE FUEL ELEMENTS FOR KIWI-B4,B5 REACTORS. 30-27

FABRY-PEROT
PROPER CALCULATION OF THE FRACTIONAL ORDER NUMBER AT THE CENTER OF A FABRY-PEROT INTERFEROMETER FRINGE SYSTEM. 19-16

FACEPIECES
INVESTIGATION OF PERFORMANCE OF US ARMY FILTER CANISTERS AND RESPIRATORS EQUIPPED WITH PROTOTYPE FACEPIECES. 17-29

FACES
FOUR FACES OF CHO. 5-69

FACILITIES
REPORT OF THE AD HOC COMMITTEE ON FUSION PLASMA RESEARCH FACILITIES. 10-112

TRITIUM HANDLING FACILITIES AT THE LOS ALAMOS SCIENTIFIC LABORATORY. 13-18

CONFINEMENT FACILITIES FOR HANDLING PLUTONIUM. 17-5

COMPUTING FACILITIES AT LOS ALAMOS SCIENTIFIC LABORATORY. 21-25

CONTINUOUS INVENTORY IN SNM STORAGE FACILITIES. 26-4

CONTINUOUS INVENTORY IN SNM STORAGE FACILITIES. 26-5

PRELIMINARY REPORT. STUDY OF FAST REACTOR SAFETY TEST FACILITIES. 28-28

FACILITY
BIOMEDICAL APPLICATIONS OF THE CLINTON P. ANDERSON MESON PHYSICS FACILITY. 5-15

10 KA, 300 KJ MAGNETIC ENERGY TRANSFER AND STORAGE (METS) TEST FACILITY 8-1

INTENSE NEUTRON SOURCE FACILITY FOR THE FUSION ENERGY PROGRAM. 10-62

RELIABILITY ENGINEERING FOR FACILITY EFFECTIVENESS. 13-14

DESIGN OF VENTILATION AND AIR CLEANING SYSTEMS FOR THE NEW LOS ALAMOS PLUTONIUM FACILITY. 17-10

DISPOSITION OF TA-43 21, A PLUTONIUM CONTAMINATED EXPERIMENTAL FACILITY 17-15

DEMOLITION OF BUILDING 12, AN OLD PLUTONIUM FILTER FACILITY. 17-8

DEMOLITION OF BUILDING 12, AN OLD PLUTONIUM FILTER FACILITY 17-9

CENTRAL COMPUTING FACILITY PLANNING STUDY. TECHNICAL OVERVIEW. 21-16

HIGH ENERGY NEUTRON SPECTRA AT THE LAMPF RADIATION EFFECTS FACILITY. 22-18

CLINTON P. ANDERSON MESON PHYSICS FACILITY RADIOISOTOPE PROGRAM. 22-8

MONTE CARLO STUDIES OF TARGET/MODERATOR CONFIGURATIONS FOR THE WEAPONS NEUTRON RESEARCH FACILITY. 25-121

50 MEV POLARIZED NEUTRON FACILITY INCORPORATING A HIGH PRESSURE TRITIUM GAS TARGET. 25-6

CONCEPTUAL DESIGN FOR A FAST REACTOR SAFETY TEST FACILITY. PRELIMINARY REPORT. 28-7

CHARACTERIZATION OF TRANSURANIC SOLID WASTES FROM A PLUTONIUM PROCESSING FACILITY. 30-11

DESIGN CRITERIA (REVISED) FOR TRANSURANIC CONTAMINATED SOLID WASTE TREATMENT DEVELOPMENT FACILITY. 30-18

FACTORIES
HEATING BY SECONDARY PARTICLES AT MESON FACTORIES. 22-17

FAILURE
XPECT: A MONTE CARLO PROGRAM TO PREDICT THE EXPECTED TIME TO NEXT FAILURE IN CONTROLLED THERMONUCLEAR RESEARCH SYSTEMS. 10-156

FAILURE OBSERVATIONS ON ENCAPSULATED EXPERIMENTAL MARK-II FUEL ELEMENTS IRRADIATED IN ERR-II. 23-21

PRESTRESSED CONCRETE REACTOR VESSELS: REVIEW OF DESIGN AND FAILURE CRITERIA. 28-30

FALLOUT
LICHEN FORAGE INGESTION RATES OF FREE ROAMING CARIBOU ESTIMATED WITH FALLOUT CESIUM -137. 30-42

FAMILY
METAL ATOM OXIDATION LASERS: A NEW FAMILY OF CHEMICAL LASERS. 20-91

FARADAY
MEASUREMENT OF FARADAY ROTATION IN IHX. 10-79

TESTING AND CALIBRATION OF A FARADAY CUP AND OTHER INTENSITY MONITORS FOR THE EXTERNAL PROTON BEAM AT LAMPF. 22-52

FAST
FAST SOLAR ELECTRONS, INTERPLANETARY PLASMA AND KM WAVE TYPE III RADIO BURSTS OBSERVED FROM THE IMP-6 SPACECRAFT. 1-10

FAST REACTOR FISSION YIELDS FOR URANIUM -233, URANIUM -235, URANIUM -238, AND PLUTONIUM -239 AND DETERMINATION OF BURNUP IN FAST BREEDER REACTOR MIXED OXIDE FUELS. 2-14

FAST REACTOR FISSION YIELDS FOR URANIUM -233, URANIUM -235, URANIUM -238, AND PLUTONIUM -239 AND DETERMINATION OF BURNUP IN FAST BREEDER REACTOR MIXED OXIDE FUELS. 2-14

CHIT: A COST ACCOUNTING PROGRAM FOR POSTIRRADIATION EXAMINATIONS OF FAST BREEDER REACTOR MATERIALS. 2-5

STUDY OF FAST TIME STRUCTURE WITHIN COSMIC GAMMA RAY BURSTS. 3-42

FAST MOLECULAR TRAJECTORY CALCULATIONS BY HYBRID COMPUTATION: A FEASIBILITY STUDY. 6-8

ROLE OF FAST DISCHARGING HOMOPOLAR MACHINES IN FUSION DEVICES. 10-116

SLOWING-IN DISTRIBUTION OF FAST PARTICLES RELEASED IN MAXWELLIAN PLASMA. 10-125

INVESTIGATION OF MICRO-CHANNEL PLATES AS PARALLEL BORE ELECTRON COLLIMATORS FOR USE IN A PROXIMITY FOCUSED ULTRA FAST STREAK TUBE. 19-12

FAST FRAMING AND X RAY PINHOLE CAMERA TECHNIQUES FOR STUDY OF LASER GENERATED PLASMAS. 20-44

SURVEY OF THE STATE OF THE ART OF FAST SINGLE TRANSIENT ANALOG TO DIGITAL CONVERTER TECHNIQUES. 21-78

CALCULATIONS OF FAST CRITICAL ASSEMBLIES USING ENDF/B-IV CROSS SECTION DATA. 24-3

CENTRAL NEUTRON SPECTRUM OF THE FAST CRITICAL ASSEMBLY BIG-TEN. 24-5

QUASIFREE PION PRODUCTION AS SEEN IN NEUTRON - DEUTERON REACTIONS WITH A FINAL FAST DEUTERON. 25-190

ABSOLUTE CROSS SECTIONS FOR PRODUCTION OF PROMPT NUCLEAR GAMMA RAYS BY FAST PIONS. 25-7

FAST NUCLEON CAPTURE AS A METHOD FOR INVESTIGATION OF GIANT QUADRUPOLE RESONANCES. 25-78

FAST PION INDUCED PROCESSES IN COMPLEX NUCLEI: CROSS SECTION AND ALPHA REMOVAL. 25-79

DISINTEGRATION OF HELIUM -3 BY FAST NEUTRONS. 27-5

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS. JULY 1 - SEPTEMBER 30, 1975. 28-11

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS JULY 1 - SEPTEMBER 30, 1975. 28-11

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS, APRIL - JUNE 30, 1975, AND FY 1975. 28-12

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS, APRIL - JUNE 30, 1975, AND FY 1975. 28-12

MODIFICATION OF THE LOS ALAMOS FAST PLUTONIUM REACTOR. 28-22

PLUTONIUM FAST REACTOR AT LOS ALAMOS. 28-26

PRELIMINARY REPORT. STUDY OF FAST REACTOR SAFETY TEST FACILITIES. 28-28

QUARTERLY REPORT EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, JANUARY 1 THROUGH MARCH 31, 1975. 28-32

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, JANUARY 1 THROUGH MARCH 31, 1975. 28-32

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS. FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-33

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-33

CONCEPTUAL DESIGN FOR A FAST REACTOR SAFETY TEST FACILITY. PRELIMINARY REPORT. 28-7

FATIGUE
THEORY OF IRRADIATION INDUCED GROWTH OF FATIGUE CRACKS. 23-57

FAULT
FAULT ACTIVITY AND SEISMICITY NEAR THE LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST SITE, JEMEZ MOUNTAINS, NEW MEXICO. 11-15

SEISMICITY OF LOS ALAMOS AREA ESTIMATED FROM FAULT MOVEMENTS. 11-49

SINUOSITY OF STRIKE - SLIP FAULT TRACES. 11-52

FAULTING
EVIDENCE FOR THE EXISTENCE OF FAULTING IN A SPLAT COOLED DELTA PLUTONIUM(TITANIUM) ALLOY. 9-10

FBR
EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS. JULY 1 - SEPTEMBER 30, 1975. 28-11

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS, APRIL - JUNE 30, 1975, AND FY 1975. 28-12

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, JANUARY 1 THROUGH MARCH 31, 1975. 28-32

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-33

FCC
METASTABLE FCC PLUTONIUM - CERIUM SOLID SOLUTIONS. 23-40

FE
HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS. 25-94

FEASIBILITY
FAST MOLECULAR TRAJECTORY CALCULATIONS BY HYBRID COMPUTATION: A FEASIBILITY STUDY. 6-8

FEASIBILITY OF USING AMATEX IN AIR FORCE SUBMUNITIONS. FEBRUARY 15 - NOVEMBER 30, 1974. 15-11

FEASIBILITY STUDY OF THE DISPOSAL OF A ROVER REACTOR WITH HIGH EXPLOSIVES. 30-28

FEBRUARY
FEASIBILITY OF USING AMATEX IN AIR FORCE SUBMUNITIONS. FEBRUARY 15 - NOVEMBER 30, 1974. 15-11

MEDIUM ENERGY PHYSICS PROGRAM. FEBRUARY 1 - APRIL 30, 1975. 22-29

FEDERAL
IMBALANCES IN FEDERAL FUNDING OF ENERGY RESEARCH AND DEVELOPMENT. 12-10

PROPOSED FEDERAL HELIUM CONSERVATION POLICY AS RELATED TO THE HELIUM DEMANDS OF ENERGY RELATED NEW TECHNOLOGIES. 30-67

FEEDBACK
SCYLLAC DERATED FEEDBACK SECTOR EXPERIMENTS. 10-118

SCYLLAC FEEDBACK STABILIZATION EXPERIMENTS. 10-119

SCYLLAC FEEDBACK STABILIZATION. 10-120

EXPERIMENTAL STUDY OF AREA WAVES IN THE 8 METER SCYLLAC FEEDBACK SECTOR. 10-35

PLASMA EQUILIBRIUM IN THE SCYLLAC FEEDBACK SECTOR. 10-99

FENTON
WATER QUALITY IN VICINITY OF FENTON HILL SITE, 1974. 11-62

FERF
LINEAR THETA PINCH FERF. 10-73

FERMI
ON THE (NU(1)-2NU(2)) FERMI RESONANCE LEVELS IN CARBON DIOXIDE. 4-45

FERMI-TELLER
ATOMIC CAPTURE OF NEGATIVE MESONS: THE FUZZY FERMI-TELLER MODEL. 4-5

FERMION
RELATIVISTIC SECOND ORDER ENERGY FUNCTIONAL FOR FINITE FERMION SYSTEMS. 25-196

RELATIVISTIC SECOND ORDER ENERGY IN INFINITE FERMION MATTER. 25-197

FERRORICHTERITE
PHASE EQUILIBRIA OF RICHTERITE AND FERRORICHTERITE. 11-40

FE1-XMNX
EFFECT OF PRESSURE ON CURIE TEMPERATURE OF URANIUM (FE1-XMNX)2 COMPOUNDS. 23-12

FIBONACCI
GREATEST INTEGER THEOREM FOR FIBONACCI SPACES. 21-38

FIBROBLASTS
POPULATION ANALYSIS OF ARRESTED HUMAN DIPLOID FIBROBLASTS BY FLOW MICROFLUOROMETRY. 5-116

FIBROUS
CYCLONE SAMPLING OF FIBROUS GLASS AEROSOLS. 17-7

FICTITIOUS
COARSE MESH REBALANCE METHODS COMPATIBLE WITH THE SPHERICAL HARMONIC FICTITIOUS SOURCE IN NEUTRON TRANSPORT CALCULATIONS. 24-6

FIELD
GRADIENTS OF SOLAR PROTONS IN THE HIGH LATITUDE MAGNETOTAIL AND THE CONVECTION ELECTRIC FIELD. 1-11

MEASURED ELECTRIC FIELD IN THE MAGNETOTAIL. 1-18

RESPONSE OF THE PLASMA SHEET AT APPROXIMATELY 18 EARTH RADII TO SUDDEN SOUTHWARD TURNINGS OF THE INTERPLANETARY MAGNETIC FIELD. 1-23

LIMIT ON THE PHOTON MASS DEDUCED FROM PIONEER 10 OBSERVATIONS OF JUPITER'S MAGNETIC FIELD. 3-24

SELF CONSISTENT FIELD CALCULATION OF THE ELECTRONIC STRUCTURE OF THE URANYL ION. 4-59

VIBRATIONAL SPECTRUM AND FORCE FIELD OF MOLYBDENUM HEXAFLUORIDE. 4-69

DECOMPOSITION OF CARBON -14 LABELED PLANT MATERIALS IN A GRASSLAND SOIL UNDER FIELD CONDITIONS. 5-49

PROBLEMS AND POTENTIALITIES OF STABLE ISOTOPES AS TRACERS FOR STUDYING POLLUTANT BEHAVIOR UNDER FIELD CONDITIONS. 7-13

MAGNETIC FIELD MICROPROBE IN SUPERCONDUCTORS CARRYING A CURRENT 8-29

ADJACENT CONDUCTOR FIELD CORRECTIONS TO HIGH CRITICAL CURRENT SHORT SAMPLE MEASUREMENTS. 8-3

TEMPERATURE AND CURRENT DEPENDENCE OF THE MAGNETIC FIELD PROFILES OF NIOBIUM3SNTIN TAPES CARRYING A CURRENT 8-52

USE OF ADIABATIC DEMAGNETIZATION TO MEASURE THE ELECTRIC FIELD GRADIENT IN CADMIUM. 8-57

CONVERSION OF PARA TO ORTHOHYDROGEN IN A GAMMA RAY AND NEUTRON RADIATION FIELD 8-7

STABILITY AND DIFFUSION OF THE ZT-1 REVERSED FIELD PINCH. 10-130

STABILITY OF THE REVERSED FIELD PINCH CONFIGURATION TO LOCALIZED PERTURBATIONS 10-138

STRUCTURAL ENDURANCE CONSTRAINTS FOR HIGH FIELD THETA PINCH COILS COILS 10-140

SUPERSONIC FLOW RESULTING FROM THE INTERACTION OF A HIGH FREQUENCY CAPACITOR OR ELECTROMAGNETIC FIELD WITH AN EXPANDING PLASMA 10-141

DESCRIPTION OF COLLISIONLESS PLASMAS BY CLASSICAL FIELD EQUATIONS 10-17

ENHANCED WEAK FIELD ELECTRICAL RESISTIVITY OF A PARAMETRICALLY UNSTABLE PLASMA 10-32

FIELD DISTRIBUTIONS IN A SPIRAL RESONATOR. 10-38

HYBRID MODEL STUDIES OF MAGNETIC FIELD DIFFUSION IN HIGH BETA PINCHES. 10-52

ION TEMPERATURE MEASUREMENTS ON THE ZT-1 REVERSED FIELD PINCH. 10-66

KINETIC NONLOCAL ANALYSIS OF CROSS FIELD INSTABILITIES IN THETA PINCH PLASMAS 10-67

LASL REVERSED FIELD PINCH PROGRAM PLAN 10-71

MAGNETIC FIELD AND PLASMA DENSITY MEASUREMENTS IN THE STAGED THETA PINCH EXPERIMENT. 10-77

MOTION OF A PLASMA COLUMN IN A PERTURBING MAGNETIC FIELD. 10-82

NONLOCAL ANALYSIS OF CROSS FIELD INSTABILITIES IN THETA PINCHES. 10-85

NUMERICAL MODELING OF MAGNETIC IMPLOSION HEATING AND FIELD DIFFUSION IN PINCHES. 10-87

NUMERICAL CALCULATION OF FLASHING FROM LONG PIPES USING A TWO FIELD MODEL. 18-26

EFFECT OF THE AMBIPOLAR ELECTRIC FIELD ON THE TRANSPORT OF ENERGETIC ELECTRONS. 20-31

ELECTRIC FIELD INDUCED HARMONIC GENERATION AS A PROBE OF THE FOCAL REGION OF A LASER BEAM. 20-32

LINEAR THEORY OF A COLD RELATIVISTIC BEAM PROPAGATING ALONG AN EXTERNAL MAGNETIC FIELD. 20-85

DIGITAL INTERFACE FOR FIELD REGULATED MAGNETS. 21-30

ON THE ROOTS OF X(M)+-1 IN THE P-ADIC FIELD Q(P). 21-61

SELF INTERACTING, BOSON, QUANTUM, FIELD THEORY AND THE THERMODYNAMIC LIMIT IN D DIMENSIONS. 21-72

TECHNIQUES FOR HIGH PRECISION MAGNETIC FIELD MAPPING OF LARGE AREA DIPOLES. 22-51

EFFECTS OF NEUTRON IRRADIATION ON CRITICAL CURRENT OF NIOBIUM(3)TIN AT HIGH FIELD. 23-15

ELECTRIC FIELD GRADIENT IN CADMIUM METAL AND THE DECAY OF METASTABLE CADMIUM -115. 25-61

IMPORTANCE OF THE QUADRUPOLE PAIRING FIELD IN THE J(PI)=0(+) VIBRATIONS OF SHAPE DEFORMED NUCLEI. 25-97

FIELDS
PARTICLES AND FIELDS IN THE NEIGHBORHOOD OF A MAGNETIC NEUTRAL LINE. 1-19

SOME EVALUATIONS OF MAGNETOSPHERIC ELECTRIC FIELDS AND THEIR EFFECTS. 1-27

SCYLLAC SECTOR RESULTS WITH PROGRAMMED L=0 AND L=2 AUXILIARY FIELDS. 10-123

TRANSIENT FLOW AND EXPANSION OF A PINCH DISCHARGE PLASMA IN SELF INDUCED MAGNETIC FIELDS. 10-152

ELECTRON HEATING AND LANDAU DAMPING IN INTENSE LOCALIZED ELECTRIC FIELDS. 10-26

HOT ELECTRON PRODUCTION, ANOMALOUS ABSORPTION AND EFFECT OF INTENSE ELECTROMAGNETIC FIELDS ON INVERSE BREMSSTRAHLUNG ABSORPTION NEAR THE ELECTRON PLASMA FREQUENCY. 10-50

INFLUENCE OF SELF FIELDS ON THE FILAMENTATION INSTABILITY IN RELATIVISTIC BEAM PLASMA SYSTEMS. 10-58

INFLUENCE OF SELF FIELDS ON THE VLASOV EQUILIBRIUM AND STABILITY PROPERTIES OF RELATIVISTIC ELECTRON BEAM - PLASMA SYSTEMS 10-59

RELATIVISTIC LINEAR THEORY IN THE ABSENCE OF EXTERNAL FIELDS. 20-131

SYMMETRY AND STABILITY STUDIES OF THERMALLY GENERATED MAGNETIC FIELDS IN LASER PRODUCED PLASMAS. 20-147

INFLUENCE OF STANDING WAVE FIELDS ON THE LASER DAMAGE RESISTANCE OF DIELECTRIC FILMS. 20-56

MAGNETIC FIELDS IN LASER PRODUCED PLASMAS. 20-87

POINCARE GENERATORS AND FW TRANSFORMATIONS FOR BHABHA FIRST ORDER FIELDS. 25-174

VACUUM POLARIZATION IN STRONG, REALISTIC ELECTRIC FIELDS. 25-228

FILAMENTATION
INFLUENCE OF SELF FIELDS ON THE FILAMENTATION INSTABILITY IN RELATIVISTIC BEAM PLASMA SYSTEMS. 10-58

FILES
FTRCOL, A COMPUTER CODE TO GROUP COLLAPSE FTR FILES AND OUTPUT STANDARD CCCC INTERFACE FILES. 21-34

FTRCOL, A COMPUTER CODE TO GROUP COLLAPSE FTR FILES AND OUTPUT STANDARD CCCC INTERFACE FILES. 21-34

ENDF/B-IV FISSION PRODUCT FILES: SUMMARY OF MAJOR NUCLIDE DATA 25-61

FILLING
ION TRAIL FILLING IN LASER FUSION TARGETS. 20-60

FILM
INSTANT SPECTROSCOPY IN THE VISIBLE, ULTRAVIOLET, AND VACUUM ULTRAVIOLET WITH POLAROID FILM. 2-15

INTRINSIC DISSIPATION AND THINNING IN FILM FLOW. 8-19

THIN FILM DETECTOR SYSTEM FOR LASER -FUSION STUDIES. 20-154

FILMS
INFLUENCE OF STANDING WAVE FIELDS ON THE LASER DAMAGE RESISTANCE OF DIELECTRIC FILMS 20-56

FILTER
INVESTIGATION OF PERFORMANCE OF US ARMY FILTER CANISTERS AND RESPIRATORS EQUIPPED WITH PROTOTYPE FACEPIECES. 17-29

MULTIPLE HEPA FILTER TEST METHODS, JULY 1, 1974 - MARCH 31, 1975. 17-32

TRANSFER TECHNIQUE FOR ELECTRON MICROSCOPY OF MEMBRANE FILTER SAMPLES. 17-60

DEMOLITION OF BUILDING 12, AN OLD PLUTONIUM FILTER FACILITY. 17-8

DEMOLITION OF BUILDING 12, AN OLD PLUTONIUM FILTER FACILITY. 17-9

CONTROLLED POROSITY FILTER AND UNIFORM STRUCTURE COMPOSITES. 23-8

FILTERS
PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS FOR PERIOD JULY 1 THROUGH DECEMBER 31, 1972. 17-36

PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS FOR THE PERIOD MARCH 1 THROUGH JUNE 30, 1972. 17-37

PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS. 17-38

FINAL
INTEGRATED SOLAR ENERGY COLLECTOR FINAL SUMMARY REPORT. 12-11

SPECIAL REPORT PRESENTED AT JULY MEETING WITH C. A. THOMAS ON FINAL PURIFICATION AND METALLURGY OF 49. 23-53

SPECIAL REPORT PRESENTED AT MAY MEETING WITH C. A. THOMAS ON FINAL PURIFICATION AND METALLURGY OF 49. 23-54

QUASIFREE PION PRODUCTION AS SEEN IN NEUTRON - DEUTERON REACTIONS WITH A FINAL FAST DEUTERON. 25-190

FINE
OCTAHEDRAL FINE STRUCTURE SPLITTINGS IN NU(3) OF SULFUR HEXAFLUORIDE. 4-44

YIELD STRENGTH OF FINE GRAINED VANADIUM PRODUCED BY HIGH RATE PHYSICAL VAPOR DEPOSITION. 23-64

FINITE
ENERGY LOSS OF A RELATIVISTIC, FINITE ELECTRON BEAM IN A PLASMA. 10-28

CAVITY STABILITY: FINITE ELEMENT ANALYSIS FOR STEADY AND TRANSIENT CREEP. 11-5

BOOK REVIEW: APPLICABLE FINITE MATHEMATICS, BY D. S. MOORE AND J. W. NUCKEL. 21-14

COMPARING CERTAIN CLASSES OF DIFFERENCE AND FINITE ELEMENT SCHEMES FOR A HYPERBOLIC PROBLEM. 21-17

ANALYSIS OF CAVITY STABILITY BY THE FINITE ELEMENT METHOD. 21-5

ON FINITE ELEMENTS FOR EQUATIONS OF EVOLUTION. 21-59

PERSPECTIVE DISPLAYS FOR THREE DIMENSIONAL FINITE DIFFERENCE CALCULATIONS. 21-64

THREE DIMENSIONAL MESH GENERATOR FOR FINITE ELEMENT COMPUTER CODES. 21-81

LINEAR DISCONTINUOUS FINITE ELEMENT SCHEME IN TIME DEPENDENT TRANSPORT CALCULATIONS. 24-13

ONETRAN: A DISCRETE ORDINATES FINITE ELEMENT CODE FOR THE SOLUTION OF THE ONE DIMENSIONAL MULTIGROUP TRANSPORT EQUATION. 24-17

RELATIVISTIC SECOND ORDER ENERGY FUNCTIONAL FOR FINITE FERMION SYSTEMS. 25-196

GAUGE THEORY AT FINITE TEMPERATURE OF SU(3) SYMMETRY BREAKING AND QUARK MASSES 25-87

MODEL FOR HEAT CONDUCTION WITH FINITE SIGNAL SPEED. 27-11

FIRE
SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE II: SOLID PROPELLANT FIRE. 17-52

FIREBALL
FIREBALL CALCULATIONS WITH THE SN METHOD. 18-14

LOW ALTITUDE FIREBALL CALCULATIONS. 1. COMPARISONS WITH DATA FOR DOMINIC EVENTS 18-23

RADIATIVE TRANSFER APPROXIMATIONS IN FIREBALL MODELING. 18-38

TWO DIMENSIONAL FIREBALL CALCULATIONS. 18-54

ANALYSIS OF FIREBALL GROWTH AT SANDSTONE. 30-2

FIREBALLS
EFFECTS OF TURBULENCE ON LOW ALTITUDE FIREBALLS AT LATE TIMES. 18-12

LASL CALCULATIONS OF LOW ALTITUDE FIREBALLS USING THE ICED ALE METHOD 18-21

FIRST
TUNING OF THE FIRST SECTION OF THE BIOMEDICAL CHANNEL AT LAMPF. 5-143

FIRST WALL MATERIALS PROBLEMS IN FUSION REACTORS. 10-39

HEAT TRANSFER MODEL FOR COMPOSITE FIRST WALL MATERIALS IN A PULSED HIGH BETA CONTROLLED THERMONUCLEAR REACTOR (CTR). 10-46

LASER PHASE TRANSITION ANALOGY: APPLICATION TO FIRST ORDER TRANSITIONS. 20-79

NUMERICAL COMPARISON OF INTEGRAL EQUATIONS OF THE FIRST AND SECOND KIND FOR CONFORMAL MAPPING. 21-54

POINCARE GENERATORS AND FW TRANSFORMATIONS FOR BHABHA FIRST ORDER FIELDS. 25-174

BHABHA FIRST ORDER WAVE EQUATIONS. 2. MASS AND SPIN COMPOSITION, HAMILTONIANS, AND GENERAL SAKATA-TAKETANI REDUCTIONS. 25-21

BHABHA FIRST ORDER WAVE EQUATIONS. 3. POINCARE GENERATORS. 25-22

FISSILE
INSTRUMENTATION TECHNIQUES FOR NDA (NONDESTRUCTIVE ANALYSIS) OF FISSILE MATERIAL. 26-10

FISSION
FAST REACTOR FISSION YIELDS FOR URANIUM -233, URANIUM -235, URANIUM -238, AND PLUTONIUM -239 AND DETERMINATION OF BURNUP IN FAST BREEDER REACTOR MIXED OXIDE FUELS. 2-14

QUANTITATIVE DETERMINATION OF FISSION PRODUCTS IN IRRADIATED FUEL PINS USING NONDESTRUCTIVE GAMMA SCANNING. 2-21

QUANTITATIVE DETERMINATION OF FISSION PRODUCTS IN IRRADIATED FUEL PINS USING NONDESTRUCTIVE GAMMA SCANNING. 2-22

FUSION - FISSION HYBRID. 10-43

NUCLEAR CHARGE DISTRIBUTION IN FISSION SPECTRUM NEUTRON INDUCED FISSION: FRACTIONAL CUMULATIVE YIELDS OF RARE GAS NUCLIDES FROM FISSION OF URANIUM -235 AND URANIUM -238. 16-10

SCISSION POINT PARAMETERS DETERMINED BY LIGHT PARTICLE EMISSION IN FISSION OF CALIFORNIUM -252. 16-13

FISSION PRODUCT GAMMA AND (GAMMA,NEUTRON) SPECTRA AND GAMMA DECAY HEAT. 16-2

FISSION PRODUCT GAMMA RAY AND PHOTONEUTRON SPECTRA. 16-3

FISSION. 16-4

GAMMA AND BETA DECAY POWER FOLLOWING URANIUM -235 AND PLUTONIUM -239 FISSION BURSTS. 16-5

INDEPENDENT FISSION YIELDS OF RUBIDIUM AND CESIUM FROM THERMAL NEUTRON INDUCED FISSION OF PLUTONIUM -239. 16-6

MASS AND KINETIC ENERGY MEASUREMENTS OF FRAGMENTS FROM THE ISOMERIC AND EXCITED STATE FISSION OF AMERICIUM -242. 16-7

MEASUREMENTS OF GAMMA-F/GAMMA-N USING DIRECT REACTION FISSION TECHNIQUES. 16-8

(NEUTRON, FISSION) CROSS SECTIONS FOR EXOTIC ACTINIDES. 25-1

MEASUREMENT, ANALYSIS, AND IMPLICATIONS OF THE FISSION CROSS SECTIONS OF THE IMPORTANT FISSIONABLE ISOTOPES. 25-115

NEUTRON FISSION CROSS SECTION OF CALIFORNIUM -249. 25-130

PARAMETERS OF THE SUBTHRESHOLD FISSION STRUCTURE IN PLUTONIUM -240. 25-151

PARAMETERS OF THE SUBTHRESHOLD FISSION STRUCTURE IN PLUTONIUM -240 25-152

SUBTHRESHOLD FISSION IN PLUTONIUM -240 + N. 25-212

ENDF/B-IV FISSION PRODUCT FILES. SUMMARY OF MAJOR NUCLIDE DATA. 25-63

FISSION CROSS SECTION OF URANIUM -238 IN THE NEIGHBORHOOD OF 7 MEV. 25-80

EXTRACTION OF FISSION PRODUCTS FROM ROVER FUEL ELEMENTS. 30-26

FISSIONABLE
MEASUREMENT, ANALYSIS, AND IMPLICATIONS OF THE FISSION CROSS SECTIONS OF THE IMPORTANT FISSIONABLE ISOTOPES. 25-115

FUNDAMENTALS OF PASSIVE NONDESTRUCTIVE ASSAY OF FISSIONABLE MATERIAL. LABORATORY WORKBOOK. 26-7

FITPI
FITPI. MODIFICATIONS TO THE OPTICAL MODEL PROGRAM PIRK FOR PARAMETER SEARCHES AND TOTAL CROSS SECTIONS. 29-3

FITTING
SINGULARITY FITTING IN HYDRODYNAMICAL CALCULATIONS. 2. 21-74

FIVE
LOW LYING LEVELS OF FIVE NUCLEON SYSTEMS. 25-106

FIXED
MULTIPLE EXCHANGE AND HIGH ENERGY FIXED ANGLE SCATTERING. 25-123

FLARE
IDENTIFICATION OF SOLAR FLARE IRON(XVIII) TO IRON(XXIII) EMISSION LINES FROM 2S(N)2P(K)-2S(N-1)2P(K+1) TRANSITIONS. 3-21

FLASH
PORTABLE FLASH X RAY SYSTEMS APPLICATIONS AND TECHNIQUES. 2-20

FLASHES
PHOTOELECTRIC OBSERVATIONS OF BOMB FLASHES AT A LONG DISTANCE. 30-60

FLASHING
APPLICATION OF A DRIFT - FLUX MODEL TO FLASHING IN STRAIGHT PIPES. 18-2

NUMERICAL CALCULATION OF FLASHING FROM LONG PIPES USING A TWO FIELD MODEL. 18-26

FLAT
X RAY CONTINUUM AND LINE RADIATION FROM PLASMAS PRODUCED BY 10.6 MICROMETER LASER FOCUSED ON FLAT TARGETS. 20-164

FLIGHT
TIME OF FLIGHT NEUTRON SPECTROSCOPY USING APPROXIMATELY 20 METER FLIGHT PATHS TO A NUCLEAR DEVICE. 25-223

TIME OF FLIGHT NEUTRON SPECTROSCOPY USING APPROXIMATELY 20 METER FLIGHT PATHS TO A NUCLEAR DEVICE. 25-224

FLOATING
ALGORITHMS TO REVEAL THE REPRESENTATION OF CHARACTERS, INTEGERS AND FLOATING POINT NUMBERS. 21-2

FLOW
PROLONGED EARTHWARD FLOW OF MAGNETOTAIL PLASMA ASSOCIATED WITH STEADY SOUTHWARD IMF. 1-20

NUMERICAL STUDY OF PULSATILE FLOW THROUGH CONSTRICTED ARTERIES. 5-107

POPULATION ANALYSIS OF ARRESTED HUMAN DIPLOID FIBROBLASTS BY FLOW MICROFLUOROMETRY. 5-116

UNIQUE TECHNIQUES FOR CELL CYCLE ANALYSIS UTILIZING MITHRAMYCIN AND FLOW MICROFLUOROMETRY. 5-144

CELL CLASSIFICATION BY MULTIANGLE LASER LIGHT SCATTERING IN A FLOW SYSTEM. 5-20

CELL PREPARATION AND STAINING FOR FLOW SYSTEMS. 5-29

CLASSIFICATION OF HUMAN LEUKOCYTES BY MULTIANGLE LASER LIGHT SCATTERING IN A FLOW SYSTEM. 5-41

APPLICATION OF FLOW MICROFLUOROMETRY TO PROBLEMS IN RADIOTHERAPY. 5-5

EVALUATION OF SIX FLUORESCENT PROTEIN STAINS FOR USE IN FLOW MICROFLUOROMETRY. 5-60

FLOW MICROFLUOROMETRIC ANALYSIS OF ISOLATED CHINESE HAMSTER CHROMOSOMES. 5-65

FLOW SYSTEM MULTIANGLE LIGHT SCATTERING INSTRUMENT FOR BIOLOGICAL CELL CHARACTERIZATION. 5-66

FLOW SYSTEM MULTIANGLE LIGHT SCATTERING INSTRUMENT FOR CELL CHARACTERIZATION. 5-67

INTRODUCTION TO FLOW SYSTEMS FOR CELL ANALYSIS AND SORTING. 5-82

LASER FLOW MICROPHOTOMETERS FOR RAPID ANALYSIS AND SORTING OF INDIVIDUAL MAMMALIAN CELLS. 5-92

EXPLANATION OF AN OBSERVED DIRECTION DEPENDENT SUPERFLUID FLOW. 8-17

FORCED CONVECTION HEAT TRANSFER WITH TWO PHASE FLOW. 8-18

INTRINSIC DISSIPATION AND THINNING IN FILM FLOW. 8-19

SUPERFLUID FLOW THROUGH MULTIPLY CONNECTED GEOMETRIES. 8-51

SUPERSONIC FLOW RESULTING FROM THE INTERACTION OF A HIGH FREQUENCY CAPACITOR OR ELECTROMAGNETIC FIELD WITH AN EXPANDING PLASMA. 10-141

TRANSIENT FLOW AND EXPANSION OF A PINCH DISCHARGE PLASMA IN SELF INDUCED MAGNETIC FIELDS. 10-152

DEUTERIUM FLOW LOOP FOR A SUPERSONIC GAS TARGET INTENSE NEUTRON SOURCE. 10-20

ADDITIONAL NOTE ON THE ISOTOPIC COMPOSITION OF STRONTIUM IN MCCARTYS FLOW, VALENCIA COUNTY, NEW MEXICO. 11-1

VISCOUS MELT FLOW AND THERMAL ENERGY TRANSFER FOR A ROCK MELTING PENETRATOR: LITHOTHERMODYNAMICS. 11-61

ROCKY MOUNTAIN ENERGY FLOW PATTERNS. 12-19

DISCHARGE FLOW WITH TWO DIMENSIONAL FLUID MODEL ANALYSIS. 18-11

FLOW OF INTERPENETRATING MATERIAL PHASES. 18-15

MULTI-PHASE FLOW METHODS FOR REACTOR SAFETY ANALYSIS. 18-25

NUMERICAL CALCULATION OF MULTIPHASE FLUID FLOW. 18-27

NUMERICAL SIMULATION OF FLOW IN AN UNWRAPPED DOWNCOMER. 18-33

WIND FLOW OVER SIMULATED STRUCTURES FOR MARTIAN AND TERRESTRIAL ATMOSPHERES. 18-55

THERMAL AND FLOW PERFORMANCE ANALYSES OF THE KIWI-B-4E REACTOR. 30-90

FLOWS
ROCKY MOUNTAIN ENERGY 1974: FLOWS, EMPLOYMENT, PRICES. 12-18

NUMERICAL CALCULATION OF TWO PHASE FLOWS. 18-29

CALCULATING THREE DIMENSIONAL FLUID FLOWS AT ALL SPEEDS WITH AN EULERIAN-LAGRANGIAN COMPUTING MESH. 18-3

PARTICULATE TRANSPORT IN THREE DIMENSIONAL FLUID FLOWS THROUGH CURVED AND BIFURCATING VESSELS. 18-37

RICE: A COMPUTER PROGRAM FOR MULTICOMPONENT CHEMICALLY REACTIVE FLOWS AT ALL SPEEDS. 18-41

SOLA, A NUMERICAL SOLUTION ALGORITHM FOR TRANSIENT FLUID FLOWS. 18-47

FLUID
GENERAL NUMERICAL FLUID DYNAMICS ALGORITHM FOR ASTROPHYSICAL APPLICATIONS. 3-17

STABILITY ANALYSIS OF SHARP BOUNDARY VLASOV FLUID SCREW PINCH EQUILIBRIA. 10-128

STABILITY ANALYSIS OF SHARP BOUNDARY VLASOV FLUID SCREW PINCH EQUILIBRIA. 10-129

VLASOV FLUID MODEL WITH ELECTRON PRESSURE. 10-155

DISCHARGE FLOW WITH TWO DIMENSIONAL FLUID MODEL ANALYSIS. 18-11

GAP: A PIC-TYPE FLUID CODE. 18-16

GENERAL FLUID DYNAMICS ALGORITHM FOR ASTROPHYSICAL APPLICATIONS. 18-17

NUMERICAL CALCULATION OF MULTIPHASE FLUID FLOW. 18-27

CALCULATING THREE DIMENSIONAL FLUID FLOWS AT ALL SPEEDS WITH AN EULERIAN-LAGRANGIAN COMPUTING MESH. 18-3

NUMERICAL METHOD FOR STUDYING THE CIRCULATION PATTERNS OF A FLUID IN A CAVITY. 18-30

NUMERICAL METHODS IN FLUID DYNAMICS, 1974, 4TH INTERNATIONAL CONFERENCE, BOULDER, PROCEEDINGS, LECTURE NOTES IN PHYSICS, V.35. 18-32

PARTICULATE TRANSPORT IN THREE DIMENSIONAL FLUID FLOWS THROUGH CURVED AND BIFURCATING VESSELS. 18-37

CLASSICAL TRANSPORT IN A MOVING FLUID. 18-4

SOLA: A NUMERICAL SOLUTION ALGORITHM FOR TRANSIENT FLUID FLOWS. 18-47

COMPUTER STUDIES ON FLUID SYSTEMS OF HARD CORE PARTICLES. 18-5

OPTION: A COMPUTER CODE TO SOLVE STEADY STATE FLUID THERMAL ENGINEERING PROBLEMS. 21-62

FLUIDIZED
PILOT MODEL: INDUCTION HEATED ROTATING FLUIDIZED BED. 30-61

FLUIDS
THERMODYNAMIC PROPERTIES OF FLUIDS BELOW 20 DEGREES KELVIN. 8-55

COOPERATIVE MOTIONS IN HARD CORE FLUIDS. 18-6

FLUORESCENCE
TRANSFER OF MOUSE IGG2 PRODUCTION BY IGM BEARING SPLEEN CELLS SEPARATED BY A FLUORESCENCE ACTIVATED CELL SORTER. 5-141

FLUORESCENCE LIFETIMES OF ALPHA AND BETA CAROTENES. 5-68

FLUORESCENT
DIAGNOSES OF DISEASE STATES BY FLUORESCENT MEASUREMENTS UTILIZING SCANNING LASER BEAMS. 5-52

ENERGY TRANSFER IN PHOTOSYNTHESIS: PIGMENT CONCENTRATION EFFECTS AND FLUORESCENT LIFETIMES. 5-58

EVALUATION OF SIX FLUORESCENT PROTEIN STAINS FOR USE IN FLOW MICROFLUOROMETRY. 5-60

EVALUATION OF SOLUBLE ANTIGEN FLUORESCENT ANTIBODY TEST FOR ANTIBODIES TO TRICHINELLA SPIRALIS IN EXPERIMENTALLY INFECTED SWINE. 5-61

FLUORIDE
DEPENDENCE OF THE SECOND EXPLOSION LIMITS OF HYDROGEN - FLUORINE - OXYGEN -HYDROGEN FLUORIDE MIXTURES ON A HOT ATOM EFFECT. 6-5

REDUCTIVE SYNTHESES OF TRANSITION METAL FLUORIDE COMPOUNDS. THE SYNTHESIS OF RHENIUM, OSMIUM AND IRIDIUM PENTAFLUORIDES AND TETRAFLUORIDES. 7-16

PULSED HYDROGEN FLUORIDE LASER HOLOGRAPHIC INTERFEROMETRY. 20-123

PULSED HYDROGEN FLUORIDE LASER OSCILLATOR AMPLIFIER EXPERIMENTS. 20-124

CAN WE BEAT FLUORINE AND HYDROGEN FOR HYDROGEN FLUORIDE LASERS 20-14

TIME RESOLVED OUTPUT SPECTRUM FROM A HYDROGEN FLUORIDE LASER USING MIXTURES OF SULFUR HEXAFLUORIDE AND HYDROGEN IODIDE. 20-156

HYDROGEN FLUORIDE CHEMICAL LASER. 20-52

ADDITIONAL POLYMORPHISM AND NON-STOICHIOMETRY IN SILVER FLUORIDE. 29-1

SOLID STATE PROPERTIES OF FLUORIDE CONTAINING COMPOUNDS OF 5F ELEMENTS. 29-5

FLUORINE
PHOTOABSORPTION PROCESSES IN FLUORINE. 4-49

TRANSITIONS 2S(2)2P(K) 2S2P(K+1) OF THE FLUORINE(I), OXYGEN(I), AND NITROGEN(I) ISOELECTRONIC SEQUENCES. 4-66

MASS SPECTRAL INTENSITIES OF INORGANIC FLUORINE CONTAINING COMPOUNDS 6-10

MECHANISM AND TYPES OF EXPLOSIVE BEHAVIOR IN HYDROGEN - FLUORINE SYSTEMS 6-11

QUASICLASSICAL TRAJECTORY STUDY OF THE HYDROGEN(2) + FLUORINE(2) REACTIONS 6-14

DEPENDENCE OF THE SECOND EXPLOSION LIMITS OF HYDROGEN - FLUORINE - OXYGEN - HYDROGEN FLUORIDE MIXTURES ON A HOT ATOM EFFECT. 6-5

FLUORINE - HYDROGEN EXPLOSION AND ITS POSSIBLE UTILIZATION IN LARGE CHEMICAL LASERS. 6-9

CAN WE BEAT FLUORINE AND HYDROGEN FOR HYDROGEN FLUORIDE LASERS 20-14

MIXTURE STABILITY IN HIGH POWER PULSED HYDROGEN - FLUORINE CHEMICAL LASERS. 20-95

NEUTRON KNOCKOUT BY PIONS ON NITROGEN -14, OXYGEN -16, AND FLUORINE -19 25-131

PRODUCTION OF FLUORINE -18 USING ENERGETIC NEUTRONS FROM LAMPF BEAM STOP 25-179

ACTIVATION STUDIES OF PION INDUCED REACTIONS ON CARBON, NITROGEN, OXYGEN, FLUORINE, ALUMINUM AND COPPER. 25-8

FLUOROURANIUM
STRUCTURE OF TRIS(CYCLOPENTADIENYL) FLUOROURANIUM(IV). 9-26

FLUTE
RADIAL PLASMA STRUCTURE DURING A THETA PINCH IMPLOSION: FLUTE INSTABILITIES. 10-110

FLUTE INSTABILITIES IN TWO DIMENSIONAL SIMULATIONS OF STRONGLY INHOMOGENEOUS THETA PINCH PLASMAS. 10-40

FLUX
HEAT FLUX INSTABILITIES IN THE SOLAR WIND. 1-12

ELECTRON HEAT FLUX INSTABILITIES IN THE SOLAR WIND. 1-6

EVIDENCE FOR THE REGULATION OF SOLAR WIND HEAT FLUX AT 1 AU. 1-9

LIMITING FLUX PASSAGE TIME IN NARROW SUPERCONDUCTORS. 8-25

APPLICATION OF A DRIFT - FLUX MODEL TO FLASHING IN STRAIGHT PIPES. 18-2

INDICATIONS OF STRONGLY FLUX LIMITED ELECTRON THERMAL CONDUCTION IN LASER TARGET EXPERIMENTS. 20-55

MEASUREMENT OF THE NEUTRON FLUX GENERATED BY THE LAMPF 800 MEV PROTON BEAM STOP. 22-28

GENERALIZED DIFFUSION THEORY FOR CALCULATING THE NEUTRON TRANSPORT SCALAR FLUX. 24-12

INTRODUCTION TO EXPLOSIVE MAGNETIC FLUX COMPRESSION GENERATORS. 27-8

FLUXES
DIRECT EVALUATION OF TRANSIENT SURFACE TEMPERATURES AND HEAT FLUXES. 20-25

FLYING
INTEGRATING ECLIPSE OPTICS INTO THE AEC AIR FORCE FLYING LABORATORY. 19-10

SELF FLYING ATOMIC BOMBS (NEW MEXICO JUMPING BEANS). 30-82

FOCAL
FOCAL MECHANISM OF THE DULCE, NEW MEXICO, EARTHQUAKE ON JANUARY 23, 1966. 11-16

ELECTRIC FIELD INDUCED HARMONIC GENERATION AS A PROBE OF THE FOCAL REGION OF A LASER BEAM. 20-32

FOCUS
DYNAMICS OF THE DENSE PLASMA FOCUS AS DETERMINED FROM AN ANALYSIS OF LASER SCATTERING SPECTRA. 10-23

FOCUSED
INVESTIGATION OF MICRO-CHANNEL PLATES AS PARALLEL BORE ELECTRON COLLIMATORS FOR USE IN A PROXIMITY FOCUSED ULTRA FAST STREAK TUBE. 19-12

PROXIMITY FOCUSED ULTRA-FAST STREAK TUBE. 20-121

X RAY CONTINUUM AND LINE RADIATION FROM PLASMAS PRODUCED BY 10.6 MICROMETER LASER FOCUSED ON FLAT TARGETS. 20-164

FOCUSING
SELF FOCUSING PHENOMENA IN AIR - GLASS LASER STRUCTURES. 20-136

FOILS
FUSION WELDING OF THIN METAL FOILS. 13-5

FOLDED
FOLDED DIAGRAM THEORY, TIME DEPENDENT APPROACH OF JOHNSON AND BRANGER. 25-81

FOOD
CESIUM KINETICS DATA FOR ESTIMATING FOOD CONSUMPTION RATES OF TROUT 5-34

HYDROGEN AND FOOD FROM NUCLEAR HEAT AND MUNICIPAL WASTES. 30-32

FORAGE
LICHEN FORAGE INGESTION RATES OF FREE ROAMING CARIBOU ESTIMATED WITH FALLOUT CESIUM -137. 30-42

FORCE
VIBRATIONAL SPECTRUM AND FORCE FIELD OF MOLYBDENUM HEXAFLUORIDE. 4-69

DESIGN OF A FORCE FREE INDUCTIVE STORAGE COIL. 8-11

FEASIBILITY OF USING AMATEX IN AIR FORCE SUBMUNITIONS. FEBRUARY 15 - NOVEMBER 30, 1974. 15-11

INTEGRATING ECLIPSE OPTICS INTO THE AEC AIR FORCE FLYING LABORATORY. 19-10

CHARGE ASYMMETRY EFFECTS AND THE TRINUCLEON BINDING ENERGY. 2. INCLUSION OF THE TENSOR FORCE AND SINGLET REPULSION. 25-27

HYDROGEN -3 - HELIUM -3 BINDING ENERGY DIFFERENCE AND POSSIBLE CHARGE ASYMMETRY EFFECTS IN THE NUCLEON - NUCLEON FORCE. 25-95

COMPARISON OF U.S. - ALLIED AND SOVIET TACTICAL NUCLEAR FORCE CAPABILITIES AND POLICIES. 30-12

DEFENSE FORCE FOR NATO'S CENTRAL REGION. 30-17

FORCED
FORCED CONVECTION HEAT TRANSFER WITH TWO PHASE FLOW. 8-18

FORCED OSCILLATIONS OF THE LOS ALAMOS SCIENTIFIC LABORATORY'S DRY HOT ROCK GEOTHERMAL RESERVOIR. 11-17

FORE
FORE - AFT ANISOTROPY IN THE RADIATIVE CAPTURE OF 14 MEV NEUTRONS. 25-82

FORM
ASYMPTOTIC FORM OF PARTITION FUNCTIONS OF LINEAR CHAIN MOLECULES: AN APPLICATION OF RENEWAL THEORY. 4-3

PROTON - PROTON SCATTERING, THE CHOU-YANG MODEL, AND PROTON FORM FACTORS. 25-184

FORMAL
FORMAL DERIVATION OF EFFECTIVE SPIN HAMILTONIANS FOR MACROSCOPIC MAGNETIC INSULATOR SYSTEMS. 4-24

FORMALDEHYDE
COPRECIPITATION OF URANIUM AND PLUTONIUM OXALATES USING SODIUM FORMALDEHYDE SULFOXYLATE REDUCTION AND DIETHYL OXALATE HYDROLYSIS PRECIPITATION. 2-7

FORMALISM
CHIRAL SYMMETRY AND PION CONDENSATION. 2. GENERAL FORMALISM. 25-30

FORMATION
KINETICS OF HEMOLYTIC PLAQUE FORMATION. 2. INHIBITION OF PLAQUES BY HAPTEN. 5-87

KINETICS OF HEMOLYTIC PLAQUE FORMATION. 3. INHIBITION OF PLAQUES BY ANTIGEN. 5-88

KINETICS OF HEMOLYTIC PLAQUE FORMATION. 4. IGM PLAQUE INHIBITION. 5-89

B LYMPHOCYTE ACTIVATION AND LATTICE FORMATION. 5-9

KINETICS OF HEMOLYTIC PLAQUE FORMATION. 5. THE INFLUENCE OF GEOMETRY ON PLAQUE GROWTH. 5-90

ENTHALPY OF FORMATION OF HAFNIUM DIOXIDE. 7-6

CINDER CONE SEPARATION DISTANCES: IMPLICATIONS FOR THE DEPTH OF FORMATION OF GABBROIC XENOLITHS. 11-8

FORMED
CHARACTERIZATION OF ROCK MELTS AND GLASSES FORMED BY EARTH MELTING SUBTERRENES. 11-6

INDUCED PARAMAGNETISM IN URANIUM ALLOYS: A BORON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY OF ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND YTTRIUM TETRABORIDE. 14-8

FORMING
MECHANISM OF CALDERA FORMING ASH BLAST ERUPTIONS. 11-29

FORMS
CRYSTAL DATA FOR TWO POLYMORPHIC FORMS OF PLUTONIUM DIOXIDE (PUO2) 9-7

HELIUM EFFECTS IN PLUTONIUM -238 DIOXIDE FUEL FORMS. 23-25

FORMULA
SEMIEMPIRICAL ATOMIC MASS FORMULA. 4-61

FOUNDATIONS
FOUNDATIONS OF THE TRIPLE CENTRE APPROXIMATION. 25-83

FOURIER
CARBON -13 FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE STUDIES OF FRACTIONATED CANDIDA UTILIS MEMBRANES. 5-17

FOURIER TRANSFORM CARBON -13 MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 2. LIGAND SUBSTITUTION PROCESSES. 7-7

CARBON -13 PARTIALLY RELAXED FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF ORGANOCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13. 14-5

FOURIER TRANSFORM CARBON -13 NUCLEAR MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 1. EQUILIBRIUM QUOTIENTS FROM RELATIVE ABUNDANCES OF SOLUTION SPECIES. 14-7

FOURTEEN
FOURTEEN MEV, NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS FOR SEVERAL ELEMENTS. 25-84

FRACTION
CONTINUED FRACTION EXPANSION OF ALGEBRAIC NUMBERS. 21-26

FRACTIONAL
FRACTIONAL FRINGE TIME DIFFERENTIAL HOLOGRAPHIC INTERFEROMETRY. 10-41

NUCLEAR CHARGE DISTRIBUTION IN FISSION SPECTRUM NEUTRON INDUCED FISSION: FRACTIONAL CUMULATIVE YIELDS OF RARE GAS NUCLIDES FROM FISSION OF URANIUM -235 AND URANIUM -238. 16-10

PROPER CALCULATION OF THE FRACTIONAL ORDER NUMBER AT THE CENTER OF A FABRY-PEROT INTERFEROMETER FRINGE SYSTEM. 19-16

FRACTIONATED
CARBON -13 FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE STUDIES OF FRACTIONATED CANDIDA UTILIS MEMBRANES. 5-17

FRACTIONATION
RECOVERY RATE AND RESIDUAL INJURY IN MONKEYS EXPOSED TO LARGE DOSES OF RADIATION BY FRACTIONATION. 5-125

FRACTURE
FRACTURE BEHAVIOR OF A PLATINUM(30 PERCENT) RHENIUM(8 PERCENT) TUNGSTEN ALLOY BETWEEN ROOM TEMPERATURE AND 1300 DEGREES CELSIUS. 23-22

FRACTURE BEHAVIOR OF IRIDIUM - 0.3 PERCENT TUNGSTEN AT HIGH STRAIN RATES. 23-23

FRACTURING
DETERMINATION OF PERMEABILITY OF GRANITIC ROCKS IN GT-2 FROM HYDRAULIC FRACTURING DATA. 11-12

FRAGMENT
FRAGMENT PRODUCTION IN THE INTERACTION OF 800 MEV PROTONS WITH URANIUM. 22-16

FRAGMENTATION
HIGH DENSITY METALS AND METALLIC COMPOSITES FOR IMPROVED FRAGMENTATION SUBMUNITIONS. 23-27

FRAGMENTS
MASS AND KINETIC ENERGY MEASUREMENTS OF FRAGMENTS FROM THE ISOMERIC AND EXCITED STATE FISSION OF AMERICIUM -242. 16-7

CHARACTERISTICS OF LOW Z FRAGMENTS PRODUCED IN THE INTERACTION OF 800 MEV PROTONS WITH URANIUM. 25-25

FRAMING
FAST FRAMING AND X RAY PINHOLE CAMERA TECHNIQUES FOR STUDY OF LASER GENERATED PLASMAS. 20-44

FREE
RECOVERY OF SPALLOGENIC, CARRIER FREE YTTRIUM -88 FOR RADIOISOTOPIC PHOTONEUTRON SOURCES. 7-15

DESIGN OF A FORCE FREE INDUCTIVE STORAGE COIL. 8-11

FREE SPACE BOUNDARY CONDITIONS. 10-42

FREE SPACE BOUNDARY CONDITIONS FOR THE TIME DEPENDENT WAVE EQUATION. 27-7

LICHEN FORAGE INGESTION RATES OF FREE ROAMING CARIBOU ESTIMATED WITH FALLOUT CESIUM -137. 30-42

FREEZING
FREEZING AND MELTING DEUTERIUM IN MICROBALLOONS. 20-45

FREQUENCY
SUPERSONIC FLOW RESULTING FROM THE INTERACTION OF A HIGH FREQUENCY CAPACITOR OR ELECTROMAGNETIC FIELD WITH AN EXPANDING PLASMA. 10-141

HOT ELECTRON PRODUCTION, ANOMALOUS ABSORPTION AND EFFECT OF INTENSE ELECTROMAGNETIC FIELDS ON INVERSE BREMSSTRAHLUNG ABSORPTION NEAR THE ELECTRON PLASMA FREQUENCY. 10-50

PULSED INFRARED DIFFERENCE FREQUENCY GENERATION IN CADMIUM - GERMANIUM -ARSENIC(2). 20-125

FRINGE
FRACTIONAL FRINGE TIME DIFFERENTIAL HOLOGRAPHIC INTERFEROMETRY. 10-41

PROPER CALCULATION OF THE FRACTIONAL ORDER NUMBER AT THE CENTER OF A FABRY-PEROT INTERFEROMETER FRINGE SYSTEM. 19-16

FSA
SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE III: FSA (FUEL SPHERE ASSEMBLY) IMPACTS. 17-53

FTR
PROPOSED METS (MAGNETIC ENERGY TRANSFER AND STORAGE) - FTR (FUSION TEST REACTOR) COUPLED SUPERCONDUCTING PROTOTYPE SYSTEM. 8-40

FTRCOL: A COMPUTER CODE TO GROUP COLLAPSE FTR FILES AND OUTPUT STANDARD CCCC INTERFACE FILES. 21-34

FTR (FUSION TEST REACTOR) TAG BURNUP. 28-14

FTRCOL
FTRCOL: A COMPUTER CODE TO GROUP COLLAPSE FTR FILES AND OUTPUT STANDARD CCCC INTERFACE FILES. 21-34

FUEL
QUANTITATIVE DETERMINATION OF FISSION PRODUCTS IN IRRADIATED FUEL PINS USING NONDESTRUCTIVE GAMMA SCANNING. 2-21

QUANTITATIVE DETERMINATION OF FISSION PRODUCTS IN IRRADIATED FUEL PINS USING NONDESTRUCTIVE GAMMA SCANNING. 2-22

AXIAL DISTRIBUTIONS OF NIOBIUM -95 AND ZIRCONIUM -95 ISOTOPES IN IRRADIATED URANIUM DIOXIDE - PLUTONIUM DIOXIDE FUEL PINS. 2-3

DETERMINATION OF COMBINED SULFUR IN NUCLEAR REACTOR FUEL MATERIALS. 2-8

EXPERIENCE RELATED TO THE SAFETY OF ADVANCED LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL ELEMENTS. 17-28

SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE III: FSA (FUEL SPHERE ASSEMBLY) IMPACTS. 17-53

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 1. X RAY METHOD. 20-102

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 2. PHOTONUCLEAR (DEUTERIUM (GAMMA,NEUTRON)) METHOD. 20-103

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 3. ELASTIC SCATTERING METHOD. 20-104

FAILURE OBSERVATIONS ON ENCAPSULATED EXPERIMENTAL MARK-II FUEL ELEMENTS IRRADIATED IN EBR-II. 23-21

HELIUM EFFECTS IN PLUTONIUM -238 DIOXIDE FUEL FORMS. 23-25

HELIUM RELEASE OF PLUTONIA -238 -MOLYBDENUM CERMET FUEL. 23-26

RELATION OF FABRICATION PARAMETERS TO RTG FUEL PROPERTIES. 23-48

EFFECTS OF NEUTRON STREAMING AND GEOMETRIC MODELS ON MOLTEN FUEL RECRITICALITY ACCIDENTS. 24-10

EFFECTS OF NEUTRON STREAMING AND GEOMETRIC MODELS ON MOLTEN FUEL RECRITICALITY ACCIDENTS. 24-11

NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL RODS. 26-12

AUTOMATED NONDESTRUCTIVE ASSAY SYSTEM FOR THE MEASUREMENT OF IRRADIATED ROVER FUEL. 26-2

PERFORMANCE OF SELECTED NONDESTRUCTIVE ASSAY TECHNIQUES ON LWR (LIGHT WATER REACTOR) (PLUTONIUM,URANIUM) DIOXIDE AND URANIUM DIOXIDE FUEL. 26-21

SAFEGUARDS ASPECTS OF SPENT NUCLEAR FUEL. 26-25

CALIFORNIUM -252 NEUTRON SOURCE SYSTEMS FOR THE ASSAY OF URANIUM AND PLUTONIUM IN FUEL RODS. 26-3

IN-PLANT NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL MATERIALS. 26-9

ANALYSIS OF FUEL BUNDLE RADIOGRAPHS USING MODELING. 28-1

ANALYTICAL CHEMISTRY PROGRAM FOR THE ANALYSIS OF URANIUM LOADED FUEL ELEMENTS. 28-2

LASL ADVANCED PLUTONIUM LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL PROGRAM PUBLICATIONS. 28-21

PINTEMP: A COMPUTER PROGRAM FOR FUEL ELEMENT DESIGN CALCULATIONS. 28-25

POSTIRRADIATION RESULTS AND EVALUATION OF SODIUM BONDED URANIUM - PLUTONIUM CARBIDE FUEL ELEMENTS IRRADIATED IN EBR-II. INTERIM REPORT. 28-27

REACTIVITY CHANGES DUE TO BUBBLE GROWTH OR COLLAPSE IN MOLTEN FUEL SYSTEMS. 28-36

CALCULATED CONSEQUENCES OF SODIUM BOND LOSS FROM ADVANCED FUEL ELEMENTS. 28-4

CLADDING OVALITIES IN ADVANCED LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL ELEMENTS. 28-6

CONSEQUENCES OF SODIUM BOND LOSS FROM AN LMFBR (LIQUID METAL FUELED BREEDER REACTOR) CARBIDE FUEL ELEMENT. 28-8

CRYOGENIC THERMAL EXPANSION OF Y-12 GRAPHITE FUEL ELEMENTS. 30-16

EXTRACTION OF FISSION PRODUCTS FROM ROVER FUEL ELEMENTS. 30-25

FABRICATION OF URANIUM LOADED GRAPHITE FUEL ELEMENTS FOR KIWI-B4/B5 REACTORS. 30-27

MACHINING AND INSPECTION PROCEDURES USED AT LOS ALAMOS SCIENTIFIC LABORATORY FOR FUEL ELEMENTS OF THE KIWI-B4 SERIES. 30-45

REVIEW OF FUEL ELEMENT DEVELOPMENT FOR NUCLEAR ROCKET ENGINES. 30-80

CATHODIC VACUUM ETCHING TECHNIQUES FOR GRAPHITE FUEL ELEMENT SECTIONS. 30-9

TIME DENSITY STUDY OF WATER IN KIWI-B4 FUEL ELEMENTS WITH VARYING IMPACT VELOCITIES. 30-91

FUELED
OPERATING EXPERIENCE WITH A LIQUID HYDROGEN FUELED VEHICLE. 8-34

EXPERIENCE RELATED TO THE SAFETY OF ADVANCED LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL ELEMENTS. 17-28

PERFORMANCE OF MULTIHUNDRED WATT FUELED SPHERE ASSEMBLIES IN THE SAFETY SEQUENTIAL TEST PROGRAM. 17-35

LASL ADVANCED PLUTONIUM LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL PROGRAM PUBLICATIONS. 28-21

CLADDING OVALITIES IN ADVANCED LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL ELEMENTS. 28-6

CONSEQUENCES OF SODIUM BOND LOSS FROM AN LMFBR (LIQUID METAL FUELED BREEDER REACTOR) CARBIDE FUEL ELEMENT. 28-8

FUELS
FAST REACTOR FISSION YIELDS FOR URANIUM -233, URANIUM -235, URANIUM -238, AND PLUTONIUM -239 AND DETERMINATION OF BURNUP IN FAST BREEDER REACTOR MIXED OXIDE FUELS. 2-14

CHEMICAL ANALYSIS OF NUCLEAR FUELS FOR MAJOR CONSTITUENTS. 2-4

ALTERNATE FUELS FOR TRANSPORTATION, .2. HYDROGEN FOR THE AUTOMOBILE. 12-1

PLUTONIUM RELEASE RATES FROM PLUTONIUM -238 FUELS EXPOSED TO AQUATIC ENVIRONMENTS. 17-42

ZIRCONIUM CARBIDE, A KEY INGREDIENT FOR HIGH TEMPERATURE NUCLEAR FUELS. 23-65

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS. JULY 1 - SEPTEMBER 30, 1975. 28-11

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS, APRIL - JUNE 30, 1975, AND FY 1975. 28-12

GRAPHITIC FUELS FOR THE NUCLEAR ROCKET ENGINE. 28-16

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, JANUARY 1 THROUGH MARCH 31, 1975. 28-32

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-33

FULL
TOROIDAL MODE STRUCTURE IN THE SCYLLAC FULL TORUS. 10-150

FULLY
COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATION FOR THE FULLY OFF SHELL TWO NUCLEON T MATRIX. 25-38

FUNCTION
ULTRAVIOLET CHARGE EXCHANGE ENERGY LOSS PARTITION AS A FUNCTION OF BURST ALTITUDE AND YIELD TO MASS RATIO. 4-68

CELL SURVIVAL AS A FUNCTION OF DEPTH FOR NEGATIVE PIONS AND HEAVY IONS. 5-30

RELATIVISTIC PLASMA DISPERSION FUNCTION. 20-132

WALSH FUNCTION APPROXIMATION FOR NEUTRON TRANSPORT IN X-Y GEOMETRY. 24-22

CONSTRAINTS ON WAVE FUNCTION MODELS OF THE NUCLEON - NUCLEON T MATRIX. 25-37

LOGNORMAL DAMAGE FUNCTION WITH OFFSET CIRCULAR NORMAL TARGET AND WEAPON LOCATIONS: MEAN AND OTHER MOMENTS. 30-43

FUNCTIONAL
COMPOSITIONAL AND FUNCTIONAL RELATIONSHIP OF SUBRIBOSOMAL PARTICLES TO RIBOSOMES AND POLYSOMES. 5-45

RELATIVISTIC SECOND ORDER ENERGY FUNCTIONAL FOR FINITE FERMION SYSTEMS. 25-196

FUNCTIONS
ASYMPTOTIC FORM OF PARTITION FUNCTIONS OF LINEAR CHAIN MOLECULES: AN APPLICATION OF RENEWAL THEORY. 4-3

PURPOSES AND FUNCTIONS OF AIR SAMPLING PROGRAMS. 17-47

NOISE IMMUNITY IN DIGITAL COMMUNICATION BY USE OF ORTHOGONAL SIGNAL CORRELATION AND WALSH FUNCTIONS. 19-15

STRUCTURAL PROPERTIES OF THE CANONICAL U(3) RACAH FUNCTIONS AND THE U(3):U(2) PROJECTIVE FUNCTIONS. 21-76

STRUCTURAL PROPERTIES OF THE CANONICAL U(3) RACAH FUNCTIONS AND THE U(3):U(2) PROJECTIVE FUNCTIONS. 21-76

INELASTIC PROTON SCATTERING AS A TEST OF SURFACE DELTA WAVE FUNCTIONS. 25-98

FUNDAMENTAL
FUNDAMENTAL ASPECTS OF SYSTEMS FOR THE THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER. 7-8

FUNDAMENTALS
FUNDAMENTALS OF PASSIVE NONDESTRUCTIVE ASSAY OF FISSIONABLE MATERIAL: LABORATORY WORKBOOK. 26-7

FUNDING
IMBALANCES IN FEDERAL FUNDING OF ENERGY RESEARCH AND DEVELOPMENT. 12-10

FURNACE
OSCILLATOR STRENGTHS FROM LINE ABSORPTION IN A HIGH TEMPERATURE FURNACE. 2. THE (0,0) BAND OF THE B(2)SIGMA(+) -X(2)SIGMA (+) TRANSITION IN CYANOGEN. 4-48

FUSED
PETROGRAPHY AND CHEMISTRY OF MINERALS AND GLASS IN ROCKS PARTIALLY FUSED BY ROCK MELTING DRILLS. 11-38

FUSION
LOSS OF OSMIUM DURING FUSION OF GEOLOGICAL MATERIALS. 2-16

PROPOSED METS (MAGNETIC ENERGY TRANSFER AND STORAGE) - FTR (FUSION TEST REACTOR) COUPLED SUPERCONDUCTING PROTOTYPE SYSTEM. 8-40

CONTROLLED FUSION RESEARCH: HIGHLIGHTS OF THE TOKYO IAEA CONFERENCE AND SUBSEQUENT DEVELOPMENTS. 10-11

RADIOACTIVITY INDUCED IN A THETA PINCH FUSION REACTOR. 10-111

REPORT OF THE AD HOC COMMITTEE ON FUSION PLASMA RESEARCH FACILITIES. 10-112

ROLE OF FAST DISCHARGING HOMOPOLAR MACHINES IN FUSION DEVICES. 10-116

SCYLLAC FUSION TEST REACTOR DESIGN. 10-121

SHIELDING AND ACTIVATION OF A THETA PINCH FUSION TEST REACTOR (TPFTR). 10-124

THERMONUCLEAR FUSION. 10-146

THETA PINCH FUSION TEST REACTOR. 10-147

USE OF LITHIUM (DEUTERON,NEUTRON) NEUTRONS FOR SIMULATION OF RADIATION EFFECTS IN FUSION REACTORS. 10-154

DEUTERIUM - TRITIUM FUSION REACTOR ACTIVATION AND AFTERHEAT. 10-19

APPLICATION OF SENSITIVITY ANALYSIS TO A QUANTITATIVE ASSESSMENT OF NEUTRON CROSS SECTION REQUIREMENTS FOR THE TFTR (TOKAMAK FUSION TEST REACTOR): AN INTERIM REPORT. 10-2

ENERGY SPECTRUM OF INJECTED FUSSILE IONS IN TWO COMPONENT FUSION SYSTEMS. 10-29

ENERGY STORAGE, COMPRESSION, AND SWITCHING IN A THETA PINCH FUSION TEST REACTOR. 10-30

ENVIRONMENTAL AND TECHNOLOGICAL IMPLICATIONS OF A THETA PINCH FUSION POWER PLANT. 10-33

FIRST WALL MATERIALS PROBLEMS IN FUSION REACTORS. 10-39

FUSION - FISSION HYBRID. 10-43

FUSION REACTOR SYSTEMS. 10-44

FUTURE OF FUSION. 10-45

HIGH DENSITY LINEAR SYSTEMS FOR FUSION POWER. 10-48

INTENSE NEUTRON SOURCE FACILITY FOR THE FUSION ENERGY PROGRAM. 10-62

FUSION WELDING OF THIN METAL FOILS. 13-5

PERFORMANCE OF STRUCTURED LASER FUSION PELLETS. 20-116

PREHEAT EFFECTS ON MICROBALLOON LASER FUSION IMPLOSIONS. 20-119

CALCULATED PERFORMANCE OF STRUCTURED LASER FUSION PELLETS. 20-12

PREHEAT EFFECTS ON MICROBALLOON LASER FUSION IMPLOSIONS. 20-120

QUALITY SELECTION OF LASER - FUSION TARGET MICROBALLOONS. 20-126

RECENT DEVELOPMENTS IN LASER - FUSION TARGET COATINGS. 20-129

STATUS OF LASER FUSION RESEARCH. 20-138

STATUS REPORT. LASER FUSION TARGET FABRICATION, 30 APRIL 1974. 20-139

STRUCTURED FUSION TARGET DESIGNS. 20-145

SYSTEMS ANALYSIS OF LASER FUSION POWER PLANTS. 20-148

TWO DIMENSIONAL CALCULATIONS OF ASYMMETRIC LASER FUSION TARGETS USING IRIS. 20-158

COMPUTER SIMULATION OF A DEUTERIUM -TRITIUM PELLET MICROEXPLOSION IN A MAGNETICALLY PROTECTED LASER FUSION REACTOR. 20-20

DEVELOPMENT OF AN ALPHA PARTICLE AND PROTON DETECTOR FOR LASER - FUSION STUDIES. 20-23

ELECTRICALLY IMPLODED CYLINDRICAL FUSION TARGETS. 20-34

ENGINEERING CONCEPTS FOR LASER FUSION REACTOR APPLICATIONS. 20-39

FABRICATION OF LITHIUM DEUTERIUM (0.5) TRITIUM (0.5) MICROSPHERES FOR USE AS LASER FUSION TARGETS. 20-43

IMPLOSION, STABILITY, AND BURN OF MULTISHELL FUSION TARGETS. 20-54

INTRODUCTION TO LASER FUSION. 20-58

ION TAIL FILLING IN LASER FUSION TARGETS. 20-60

LASER - FUSION ELECTRIC GENERATING STATIONS BASED ON THE MAGNETICALLY PROTECTED REACTOR CAVITY. 20-65

LASER - FUSION TARGET FABRICATION: APPLICATION OF A POLYMERIC ABLATOR COATING TO A BALL AND DISK TARGET DESIGN BY THE PHYSICAL VAPOR DEPOSITION OF POLYETHYLENE. 20-66

LASER FUSION EXPERIMENTS AT LOS ALAMOS. PART 2: THE LASL CARBON DIOXIDE SHORT PULSE OSCILLATOR - AMPLIFIER SYSTEM. 20-70

LASER FUSION. 20-71

LASER FUSION. 20-72

LASER FUSION: A NEW THERMONUCLEAR POWER CONCEPT. 20-73

LASER FUSION: AN OVERVIEW. 20-74

LASERS FOR LASER FUSION. 20-83

LOS ALAMOS PRESENTATION ON LASER FUSION TO THE JOINT COMMITTEE ON ATOMIC ENERGY, WASHINGTON, DC, MARCH 13, 1975. 20-86

MEASUREMENTS OF ALPHA PARTICLES AND PROTONS, PRODUCED FROM LASER FUSION. 20-89

VAPOR PHASE COATINGS OF METALS AND ORGANICS FOR LASER FUSION TARGET APPLICATIONS. 23-63

QUANTITATIVE BASIS FOR CROSS SECTION REQUIREMENTS FOR A FUSION TEST REACTOR. 25-188

COMPLETE FUSION CROSS SECTIONS IN HEAVY ION REACTIONS. 25-34

FTR (FUSION TEST REACTOR) TAG BURNUP. 28-14

FUSSILE
ENERGY SPECTRUM OF INJECTED FUSSILE IONS IN TWO COMPONENT FUSION SYSTEMS. 10-29

FUTURE
PRELIMINARY DESIGN AND PERFORMANCE OF AN ADVANCED GAMMA RAY SPECTROMETER FOR FUTURE ORBITER MISSIONS. 3-35

FUTURE OF FUSION. 10-45

WASTE MANAGEMENT AND SAFETY CONSIDERATIONS FOR FUTURE LASL D+D (DECONTAMINATION AND DECOMMISSIONING) PROJECTS. 17-62

FUTURE POTENTIALITIES OF IMAGE ANALYSIS. 21-35

FUZZY
ATOMIC CAPTURE OF NEGATIVE MESONS: THE FUZZY FERMI-TELLER MODEL. 4-5

FW
POINCARE GENERATORS AND FW TRANSFORMATIONS FOR BHABHA FIRST ORDER FIELDS. 25-174

F1
CELL CYCLE DEPENDENT PHOSPHORYLATION OF DIFFERENT REGIONS OF F1 HISTONE. 5-23

CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES. 5-24

CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES. 5-25

G
REACTION CARBON -13 (PI-PLUS, PI-ZERO) NITROGEN -13 (G.S.) FOR E(PI-PLUS) = 30 TO 190 MEV. 22-49

GAMMA RAY ANGULAR DISTRIBUTIONS AND PARITY TESTS IN THE DECAYS OF POLARIZED LUTETIUM -173 AND LUTETIUM -174M,G. 25-85

MEASUREMENT OF TRANSURANIC SOLID WASTES AT THE 10-NCI/G ACTIVITY LEVEL. 30-46

MEASUREMENT OF TRANSURANIC SOLID WASTES AT THE 10-NCI/G ACTIVITY LEVEL. 30-47

G-BANDING
CHROMOSOME G-BANDING AND DNA CONSTANCY IN ANEUPLOID CELL POPULATIONS. 5-39

GABBROIC
CINDER CONE SEPARATION DISTANCES: IMPLICATIONS FOR THE DEPTH OF FORMATION OF GABBROIC XENOLITHS. 11-8

GAGE
INTRINSICALLY SAFE STRAIN GAGE MONITORING SYSTEM. 19-11

GAIN
GAIN RECOVERY AFTER SATURATION IN SHORT PULSE CARBON DIOXIDE AMPLIFIERS. 20-46

MULTILINE SHORT PULSE AMPLIFICATION AND COMPRESSION IN HIGH GAIN CARBON DIOXIDE LASER AMPLIFIER. 20-99

GALACTIC
SUPERNOVA REMNANT W44: A GALACTIC GRAVIMETER. 3-44

GALAXIES
LOCAL QUASARS AND RADIO GALAXIES. 3-25

RADIO GALAXIES AND LOCAL QUASARS. 3-37

GALAXY
DISTRIBUTION OF SUPERNOVA REMNANTS IN THE GALAXY: EVIDENCE FOR A TUNNEL SYSTEM. 3-13

GALERKIN
CONVERGENCE ESTIMATES FOR GALERKIN METHODS FOR VARIABLE COEFFICIENT INITIAL VALUE PROBLEMS. 21-27

ALTERNATING DIRECTION GALERKIN METHODS FOR PARABOLIC AND HYPERBOLIC PROBLEMS ON RECTANGULAR POLYGONS. 21-3

ANALYSIS OF SOME GALERKIN SCHEMES FOR THE SOLUTION OF NONLINEAR TIME DEPENDENT PROBLEMS. 21-6

GALLIUM
EFFECT OF GALLIUM ON PLUTONIUM ASSAY. 23-11

GAMMA
QUANTITATIVE DETERMINATION OF FISSION PRODUCTS IN IRRADIATED FUEL PINS USING NONDESTRUCTIVE GAMMA SCANNING. 2-21

QUANTITATIVE DETERMINATION OF FISSION PRODUCTS IN IRRADIATED FUEL PINS USING NONDESTRUCTIVE GAMMA SCANNING. 2-22

COPPER MINING AND MILL ANALYSES BY GAMMA RAYS FROM CAPTURE OF CALIFORNIUM -252 NEUTRONS. 2-6

DETERMINATION OF OXYGEN -17 AND OXYGEN -18 ISOTOPIC ABUNDANCES IN PLUTONIUM -238 MATERIALS BY GAMMA RAY SPECTROMETRY. 2-9

COSMIC GAMMA RAY BURSTS. 3-12

GAMMA RAY BURSTS FROM BLACK HOLE ACCRETION DISKS. 3-16

GEOCHEMICAL MAPPING OF THE MOON BY ORBITAL GAMMA RAY SPECTROSCOPY. 3-18

MODEL COSMIC GAMMA RAY BURST. 3-26

OBSERVATIONS OF COSMIC GAMMA RAY BURSTS. 3-30

OBSERVATIONS OF GAMMA RAY BURSTS. 3-31

PRELIMINARY DESIGN AND PERFORMANCE OF AN ADVANCED GAMMA RAY SPECTROMETER FOR FUTURE ORBITER MISSIONS. 3-35

STUDY OF FAST TIME STRUCTURE WITHIN COSMIC GAMMA RAY BURSTS. 3-42

CONVERSION OF PARA TO ORTHOHYDROGEN IN A GAMMA RAY AND NEUTRON RADIATION FIELD. 8-7

ANALYSIS OF GEOTHERMAL POWER PLANT WATER USING GAMMA RAYS FROM CAPTURE OF CALIFORNIUM -252 NEUTRONS. 11-3

FISSION PRODUCT GAMMA AND (GAMMA,NEUTRON) SPECTRA AND GAMMA DECAY HEAT. 16-2

FISSION PRODUCT GAMMA RAY AND PHOTONEUTRON SPECTRA. 16-3

GAMMA AND BETA DECAY POWER FOLLOWING URANIUM -235 AND PLUTONIUM -239 FISSION BURSTS. 16-5

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 2. PHOTONUCLEAR (DEUTERIUM (GAMMA,NEUTRON)) METHOD. 20-103

EXTRACTION OF NEUTRON - NEUTRON SCATTERING LENGTH FROM THE REACTION PI -DEUTERON TO GAMMA NEUTRON - NEUTRON. 22-14

EXTRACTION OF NEUTRON - NEUTRON SCATTERING LENGTH FROM THE REACTION PI -DEUTERON TO GAMMA NEUTRON - NEUTRON. ERRATUM. 22-15

PI-MINUS D TO GAMMA NN AND MU-MINUS D TO NU NN. 22-41

APPLICATION OF MODERN GAMMA SCANNING TECHNIQUE. 23-1

NEUTRON AND GAMMA TRANSPORT CALCULATIONS FOR SPRINT. 24-16

KILOVOLT SULFUR -33 (NEUTRON,ALPHA-0) AND SULFUR -33 (NEUTRON,GAMMA) CROSS SECTIONS: IMPORTANCE IN THE NUCLEOSYNTHESIS OF THE RARE NUCLEUS SULFUR -36. 25-101

LIFETIMES OF NEGATIVE PARITY STATES OF SCANDIUM -49 BY THE CALCIUM -48(PROTON, GAMMA)SCANDIUM -49 REACTION. 25-102

MEASUREMENT AND INTERPRETATION OF GAMMA(N)/GAMMA(F) FOR ACTINIDE NUCLEI. 25-111

MEASUREMENT OF THE ENERGY OF THE 6129 KEV GAMMA RAY OF OXYGEN -16. 25-114

MORE 14 MEV, NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS. [illegible]-122

NUCLEAR MODELS AND DATA FOR GAMMA RAY PRODUCTION. [illegible]-145

RADIATIVE CAPTURE GAMMA RAYS FROM THE REACTION LEAD -208 (NEUTRON,GAMMA) LEAD -209 FOR 11 MEV INCIDENT NEUTRONS. 25-192

RADIATIVE CAPTURE GAMMA RAYS FROM THE REACTION LEAD -208 (NEUTRON,GAMMA) LEAD -209 FOR 11 MEV INCIDENT NEUTRONS. 25-192

TECHNIQUES WITH CALIFORNIUM -252 FOR NEUTRON CAPTURE GAMMA RAY SPECTROSCOPY. 25-216

COMPARISON OF COPPER AND GOLD ORE RESPONSES TO NEUTRON CAPTURE AND DECAY GAMMA RAY TECHNIQUES WITH CALIFORNIUM -252. 25-33

DIFFERENTIAL CROSS SECTIONS FOR GAMMA RAYS FROM IRON FOR INCIDENT NEUTRONS OF 8.5, 10.0, 12.2, AND 14.2 MEV. 25-49

EFFECT OF SHORT RANGED UNITARY TRANSFORMS ON THE RATE OF THE REACTION NEGATIVE PION PLUS DEUTERON GOES TO GAMMA RAY PLUS TWO NEUTRONS. 25-52

ABSULUTE CROSS SECTIONS FOR PRODUCTION OF PROMPT NUCLEAR GAMMA RAYS BY FAST PIONS. 25-7

EVALUATION OF GAMMA RAY PRODUCTION CROSS SECTIONS FROM NEUTRON INDUCED REACTIONS ON TUNGSTEN. 25-70

FOURTEEN MEV, NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS FOR SEVERAL ELEMENTS. 25-84

GAMMA RAY ANGULAR DISTRIBUTIONS AND PARITY TESTS IN THE DECAYS OF POLARIZED LUTETIUM -173 AND LUTETIUM -174M,G. 25-85

GAMMA(F)/GAMMA(N) FOR ACTINIDE NUCLEI. 25-86

HELIUM -3 PLUS GAMMA TO 2 PROTONS PLUS NEUTRON. 25-91

HELIUM -3(GAMMA,NEUTRON) 2 PROTON AND HELIUM -3(GAMMA,PROTON) NP REACTIONS. 25-92

HELIUM -3(GAMMA,NEUTRON) 2 PROTON AND HELIUM -3(GAMMA,PROTON) NP REACTIONS. 25-92

TOTAL PLUTONIUM AND URANIUM DETERMINATION BY GAMMA RAY DENSITOMETRY. 26-28

GUIDE TO GAMMA RAY ASSAY FOR NUCLEAR MATERIAL ACCOUNTABILITY. 26-8

INTEGRAL NEUTRON AND GAMMA DOSE MEASUREMENTS ON KIWI-A THREE. 30-33

KIWI-B1A GAMMA DOSE RATE MEASUREMENTS. 30-38

MONTE CARLO CALCULATION OF THE GAMMA RAY HEATING IN A PHOEBUS 1 NOZZLE FROM CORE SOURCES. 30-49

CALORIMETER MEASUREMENT OF THE KIWI-A GAMMA RADIATION. 30-7

GAMMA-F
MEASUREMENTS OF GAMMA-F/GAMMA-N USING DIRECT REACTION FISSION TECHNIQUES. 16-8

GAMMA-N
MEASUREMENTS OF GAMMA-F/GAMMA-N USING DIRECT REACTION FISSION TECHNIQUES. 16-8

GAP
GAP: A PIC-TYPE FLUID CODE. 18-16

CLUSTER SIZE AND THE RAPIDITY GAP LENGTH DISTRIBUTION 25-31

GAPS
WHAT CAN RAPIDITY GAPS TEACH US ABOUT CLUSTERING 25-229

WHAT DO RAPIDITY GAPS SAY ABOUT CLUSTERING 25-230

GAS
ELECTRON TRANSFER IN COLLISIONS BETWEEN ATOMIC IONS AND RARE GAS ATOMS. 4-17

MOSSBAUER STUDY OF RARE GAS MATRIX ISOLATED TELLURIUM -125 DIMERS, TELLURIUM -125 HEXAFLUORIDE, AND TELLURIUM -125 TETRACHLORIDE MOLECULES. 4-40

REACTIONS OF DIATOMIC RARE GAS IONS WITH RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 50 EV. 4-54

REACTIONS OF DIATOMIC RARE GAS IONS WITH RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 50 EV. 4-54

SYSTEM FOR STUDYING THE INITIAL STAGES OF GAS - METAL REACTIONS. 7-22

TRANSIENT CHARGE EXCHANGE EFFECTS IN A NEUTRAL GAS LAYER. 10-151

DEUTERIUM FLOW LOOP FOR A SUPERSONIC GAS TARGET INTENSE NEUTRON SOURCE. 10-20

GAS HANDLING SYSTEM FOR STUDIES OF TRITIUM CONTAINING MATERIALS. 13-6

PLANE SHOCK INITIATION OF DETONATION: COMPUTER SIMULATION OF GAS GUN EXPERIMENT. 15-20

PROJECTILE VELOCITY MEASUREMENTS AND QUARTZ AND MANGANIN GAUGE PRESSURE DETERMINATIONS IN GAS GUN EXPERIMENTS. 15-22

THEORETICAL SIMULATIONS OF THE GAS EXPLOSIVE SIMULATION TECHNIQUE (GEST) EXPERIMENTS. 15-26

NUCLEAR CHARGE DISTRIBUTION IN FISSION SPECTRUM NEUTRON INDUCED FISSION: FRACTIONAL CUMULATIVE YIELDS OF RARE GAS NUCLIDES FROM FISSION OF URANIUM -235 AND URANIUM -238. 16-10

IODINE -131 RELEASE FROM AN HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) DURING THE LOFC (LOSS OF COOLANT) ACCIDENT. 17-30

50 MEV POLARIZED NEUTRON FACILITY INCORPORATING A HIGH PRESSURE TRITIUM GAS TARGET. 25-6

NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL RODS. 26-12

IN-PLANT NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL MATERIALS. 26-9

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, JANUARY THROUGH MARCH 1975. 28-18

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, APRIL -JUNE 1975. 28-19

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, JULY -SEPTEMBER 1975. 28-20

MOISTURE DETECTOR FOR THE PRIMARY LOOP OF GAS COOLED REACTORS. 28-23

PROPOSAL FOR ANALYSIS OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) CORE RESPONSE TO SEISMIC INPUT. 28-31

QUARTERLY REPORT. HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, OCTOBER THROUGH DECEMBER 1974. 28-34

GASEOUS
EXPERIMENTAL AND CALCULATED ELECTRONIC STRUCTURE OF GASEOUS CHROMIUM OXYFLUORIDE AND CHROMIUM OXYCHLORIDE. 4-23

CALCULATED AND EXPERIMENTAL ELECTRONIC STRUCTURE OF GASEOUS MANGANESE OXYFLUORIDE AND MANGANESE OXYCHLORIDE. 4-7

THIN WINDOWS FOR GASEOUS AND LIQUID TARGETS: AN OPTIMIZATION PROCEDURE. 8-56

TRANSIENT DYNAMICS OF CHEMICALLY REACTIVE GASEOUS MIXTURES WITH TURBULENCE. 18-52

GASES
RELATIVISTIC HARTREE-FOCK COMPTON PROFILES FOR THE RARE GASES AND LEAD. 4-56

UV PHOTOIONIZATION PROCESSES IN SEEDED HIGH PRESSURE LASER GASES. 20-162

GAUGE
PROJECTILE VELOCITY MEASUREMENTS AND QUARTZ AND MANGANIN GAUGE PRESSURE DETERMINATIONS IN GAS GUN EXPERIMENTS. 15-22

GAUGE THEORY AT FINITE TEMPERATURE OF SU(3) SYMMETRY BREAKING AND QUARK MASSES. 25-87

GAUGES
JULY 16TH NUCLEAR EXPLOSION. BLAST MEASUREMENTS WITH CONDENSER GAUGES 30-35

GAUSSIAN
GAUSSIAN ELIMINATION FOR DENSE SYSTEMS ON STAR AND A NEW PARALLEL ALGORITHM FOR DIAGONALLY DOMINANT TRIDIAGONAL SYSTEMS. 21-36

GELS
IMMUNODIFFUSION IN GELS CONTAINING ERYTHROCYTE ANTIGEN 1. THEORY FOR DIFFUSION OF ANTISERUM FROM A CIRCULAR WELL. 5-76

GENERALIZED
REFINEMENT OF THE CRYSTAL STRUCTURE OF MELAMINE, 2,4,6- TRIAMINO -S- TRIAZINE, USING GENERALIZED SCATTERING FACTORS AT THE OCTUPOLE LEVEL. 9-21

GENERALIZED DIFFUSION THEORY FOR CALCULATING THE NEUTRON TRANSPORT SCALAR FLUX. 24-12

TEST OF THE GENERALIZED PAULI PRINCIPLE AND OF SUPERMULTIPLET SYMMETRY IN THE REACTIONS TRITON + BERYLLIUM -8 TO LITHIUM -6 + HELIUM -6, LITHIUM -6(0+) + HELIUM -6. 25-217

GENERATE
DIRECT USE OF YOUNG TABLEAU ALGEBRA TO GENERATE THE CLEBSCH-GORDAN COEFFICIENTS OF SU(2)*. 27-4

GENERATED
RESONANT LINE AND SATELLITE SPECTRA FROM ONE, TWO, AND THREE ELECTRON IONS IN LASER GENERATED PLASMAS. 4-57

ON SIGNALS GENERATED BY THE BINDING OF MULTIVALENT ANTIGENS TO LYMPHOCYTES. 5-108

GRAVITY WAVES GENERATED BY THE CREATION OF A CYLINDRICAL CAVITY IN WATER. 15-12

SYMMETRY AND STABILITY STUDIES OF THEEMALLY GENERATED MAGNETIC FIELDS IN LASER PRODUCED PLASMAS. 20-147

FAST FRAMING AND X RAY PINHOLE CAMERA TECHNIQUES FOR STUDY OF LASER GENERATED PLASMAS. 20-44

COMPUTER GRAPHICS 118 COMPUTER GENERATED DESIGNS. 21-19

SYNTHESIS OF HOLOGRAMS FOR COMPUTER GENERATED OUTPUT. 21-79

SYNTHESIS OF HOLOGRAMS FROM COMPUTER GENERATED OUTPUT. 21-80

MEASUREMENT OF THE NEUTRON FLUX GENERATED BY THE LAMPF 800 MEV PROTON BEAM STOP. 22-28

GENERATING
SYSTEMATIC AND GRAPHICAL METHOD FOR GENERATING THE KINETIC EQUATIONS GOVERNING THE GROWTH OF AGGREGATES. 6-16

RADIOACTIVE WASTE OUTPUT FROM LASER -FUSION GENERATING STATIONS DURING NORMAL OPERATIONS. 20-127

LASER - FUSION ELECTRIC GENERATING STATIONS BASED ON THE MAGNETICALLY PROTECTED REACTOR CAVITY. 20-65

GENERATION
ELECTROCHEMICAL HEAT ENGINES FOR DIRECT ELECTRIC POWEB GENERATION AND ENERGY STORAGE. 12-8

PULSED INFRARED DIFFERENCE FREQUENCY GENERATION IN CADMIUM - GERMANIUM -ARSENIC(2). 20-125

SPECTRAL ACCEPTANCE FOR SECOND HARMONIC GENERATION IN CD*A (CESIUM DIDEUTERIUM ARSENATE). 20-137

ELECTRIC FIELD INDUCED HARMONIC GENERATION AS A PROBE OF THE FOCAL REGION OF A LASER BEAM. 20-32

GENERATION OF LASER PULSES FOR OPTIMUM ABLATIVE COMPRESSIONS. 20-47

GENERATIONS
SOME OBSERVATIONS ON THE COMPARATIVE EFFECTS OF INBREEDING AND WHOLE BODY X RAY EXPOSURE TO SEVENTY GENERATIONS OF MICE. 5-134

GENERATOR
STRONTIUM -82 - RUBIDIUM -82 ISOTOPE GENERATOR FOR USE IN NUCLEAR MEDICINE. 5-138

MEDICAL RADIOISOTOPES FROM LAMPF: STRONTIUM -82 - RUBIDIUM -82 PRODUCTION, RECOVERY, AND BIOMEDICAL GENERATOR. 5-98

THREE DIMENSIONAL MESH GENERATOR FOR FINITE ELEMENT COMPUTER CODES. 21-81

GENERATORS
USE OF HIGH ENERGY, SHORT PULSE EXPLOSIVE GENERATORS TO DRIVE ELECTROMAGNETIC IMPLOSIONS. 15-29

ANALYSIS OF HOMOPOLAR GENERATORS AND SUPERCONDUCTING INDUCTIVE ENERGY STORAGE SYSTEMS AS POWER SUPPLIES FOR HIGH ENERGY, SPACE BASED LASERS. 20-7

POINCARE GENERATORS AND FW TRANSFORMATIONS FOR BHABHA FIRST ORDER FIELDS. 25-174

BHABHA FIRST ORDER WAVE EQUATIONS. 3. POINCARE GENERATORS. 25-22

INTRODUCTION TO EXPLOSIVE MAGNETIC FLUX COMPRESSION GENERATORS. 27-8

GEOCHEMICAL
GEOCHEMICAL MAPPING OF THE MOON BY ORBITAL GAMMA RAY SPECTROSCOPY. 3-18

GEOCHEMICAL IDENTIFICATION OF THE BRINE SOURCE OF THE SABKHAT AR-RIYAS, SAUDI ARABIA. 11-18

GEOLOGIC
RELEVANCE OF NUCLIDE MIGRATION AT OKLO TO THE PROBLEM OF GEOLOGIC STORAGE OF RADIOACTIVE WASTE. 30-78

GEOLOGICAL
LOSS OF OSMIUM DURING FUSION OF GEOLOGICAL MATERIALS. 2-16

GEOMETRIC
EFFECTS OF NEUTRON STREAMING AND GEOMETRIC MODELS ON MOLTEN FUEL RECRITICALITY ACCIDENTS. 24-10

EFFECTS OF NEUTRON STREAMING AND GEOMETRIC MODELS ON MOLTEN FUEL RECRITICALITY ACCIDENTS. 24-11

GEOMETRIES
SUPERFLUID FLOW THROUGH MULTIPLY CONNECTED GEOMETRIES. 8-51

TIME DEPENDENT CALCULATIONS OF EQUILIBRIUM AND STABILITY PROBLEMS IN SCYLLAC AND TOKAMAK GEOMETRIES. 16-149

NONSTEADY STATE DETONATIONS IN ONE DIMENSIONAL PLANE, DIVERGING, AND CONVERGING GEOMETRIES. 15-18

GEOMETRY
KINETICS OF HEMOLYTIC PLAQUE FORMATION. 5. THE INFLUENCE GEOMETRY ON PLAQUE GROWTH. 5-90

ACCURACY OF THE WHITE BOUNDARY CONDITION IN R-Z GEOMETRY. 18-1

STEADY ABLATION OF LASER TARGETS IN SPHERICAL GEOMETRY. 1. THE MODEL. 29-140

STEADY ABLATION OF LASER TARGETS IN SPHERICAL GEOMETRY. 2. PHYSICAL RESULTS. 20-141

NUMERICAL EVALUATION OF THE AZIMUTHALLY DEPENDENT ALBEDO PROBLEM IN SLAB GEOMETRY. 21-55

WALSH FUNCTION APPROXIMATION FOR NEUTRON TRANSPORT IN X-Y GEOMETRY. 24-22

DISCRETE ORDINATE TO SPHERICAL HARMONIC CONVERSIONS FOR RAY EFFECT MITIGATION IN X-Y GEOMETRY. 24-9

GEOPHYSICAL
GEOPHYSICAL LOGGING IN LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST HOLE NO.2. 11-19

GEOSCIENCES
SOLID EARTH GEOSCIENCES RESEARCH ACTIVITIES AT LASL, JANUARY 1 - JUNE 30, 1975. 11-53

SOLID EARTH GEOSCIENCES RESEARCH ACTIVITIES AT LASL, JULY 1 - DECEMBER 31, 1974. 11-54

GEOTHERMAL
CURRENT STATUS OF THE LOS ALAMOS DRY HOT ROCK GEOTHERMAL ENERGY EXPERIMENT. 11-10

FAULT ACTIVITY AND SEISMICITY NEAR THE LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST SITE, JEMEZ MOUNTAINS, NEW MEXICO. 11-15

FORCED OSCILLATIONS OF THE LOS ALAMOS SCIENTIFIC LABORATORY'S DRY HOT ROCK GEOTHERMAL RESERVOIR. 11-17

GEOPHYSICAL LOGGING IN LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST HOLE NO.2. 11-19

GEOTHERMAL ENERGY PROJECTS AT LASL. 11-20

GEOTHERMAL ENERGY. 11-21

GEOTHERMAL ENERGY: HOT DRY ROCK TECHNOLOGY. 11-22

GEOTHERMAL RESERVOIR MODELS: CRACK PLANE MODEL. 11-23

HYDROLOGIC TESTING GEOTHERMAL TEST HOLE NO.2. 11-24

MAN-MADE GEOTHERMAL RESERVOIRS. 11-27

ANALYSIS OF GEOTHERMAL POWER PLANT WATER USING GAMMA RAYS FROM CAPTURE OF CALIFORNIUM -252 NEUTRONS 11-3

PANEL ON GEOTHERMAL ENERGY 11-36

PLANNING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 1 11-41

PROGRESS OF THE LASL DRY HOT ROCK GEOTHERMAL ENERGY PROJECT. 11-42

PROSPECT FOR GEOTHERMAL POWER. 11-43

REVIEW OF GEOTHERMAL WELL TECHNOLOGY AND THE POTENTIAL APPLICATIONS OF SUBTERRENE ROCK MELTING DEVICES 11-46

ROCK MELTING HOLE PRODUCTION SYSTEMS FOR EXPLORATORY AND PRODUCTION GEOTHERMAL ENERGY WELLS 11-47

ROCK MELTING TECHNOLOGY AND GEOTHERMAL DRILLING. 11-48

TEMPERATURE MEASUREMENTS IN THE PRECAMBRIAN SECTION OF GEOTHERMAL TEST HOLE NO 2 11-56

TESTING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 2 11-57

TESTING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 3 11-58

TRANSDUCER TECHNOLOGY FOR DEEP BOREHOLE GEOTHERMAL ENVIRONMENTS 11-59

GERMANIUM
LASL NIOBIUM(3)GERMANIUM CONDUCTOR DEVELOPMENT, AUGUST 1 - OCTOBER 31, 1975 8-23

LASL NIOBIUM(3)GERMANIUM CONDUCTOR DEVELOPMENT, MAY 1 - JULY 31, 1975 8-24

PREPARATION OF HIGH T(C) NIOBIUM(3) GERMANIUM SUPERCONDUCTORS BY CHEMICAL VAPOR DEPOSITION 8-37

BULK SUPERCONDUCTIVITY ABOVE 20 DEGREES KELVIN IN NIOBIUM(3)GERMANIUM 8-6

CRITICAL CURRENT DENSITIES IN NIOBIUM(3) GERMANIUM BETWEEN 14 AND 21 DEGREES KELVIN 8-8

DEPENDENCE OF LITHIUM DRIFTED GERMANIUM DETECTOR EFFICIENCY SLOPE ON SOURCE TO DETECTOR DISTANCE 19-4

PULSED INFRARED DIFFERENCE FREQUENCY GENERATION IN CADMIUM - GERMANIUM -ARSENIC(2) 20-125

LOW TEMPERATURE THERMAL AND ELECTRICAL PROPERTIES OF CHEMICAL VAPOR DEPOSITED NIOBIUM(3)GERMANIUM 23-34

GEST
THEORETICAL SIMULATIONS OF THE GAS EXPLOSIVE SIMULATION TECHNIQUE (GEST) EXPERIMENTS 15-26

GEV
LIMIT ON PARITY NONCONSERVATION IN P-NUCLEUS SCATTERING AT 6 GEV/C 25-103

GIANT
EXPERIMENTAL EVIDENCE FOR THE EXISTENCE OF THE CHARGE EXCHANGE MODE OF GIANT RESONANCES 25-74

FAST NUCLEON CAPTURE AS A METHOD FOR INVESTIGATION OF GIANT QUADRUPOLE RESONANCES. 25-78

GLASS
ORIGIN OF ANDESITE AND DACITE. EVIDENCE OF MIXING AT GLASS MOUNTAIN IN CALIFORNIA AND OTHER CIRCUM-PACIFIC VOLCANOES. 11-35

PETROGRAPHY AND CHEMISTRY OF MINERALS AND GLASS IN ROCKS PARTIALLY FUSED BY ROCK MELTING DRILLS. 11-38

CYCLONE SAMPLING OF FIBROUS GLASS AEROSOLS. 17-7

OBSERVATIONS OF EXCITED STATE ABSORPTION IN ED-2 NEODYMIUM GLASS. 20-106

SELF FOCUSING PHENOMENA IN AIR - GLASS LASER STRUCTURES. 20-136

EXTERNAL PRESSURIZATION AS A MEANS OF UPGRADING GLASS MICROBALLOONS. 20-42

GLASSES
CHARACTERIZATION OF ROCK MELTS AND GLASSES FORMED BY EARTH MELTING SUBTERRENES. 11-6

GLORY
GLORY. 3-19

GOES
MODEL OF THE PROTON PLUS PROTON GOES TO PROTON PLUS NEUTRON PLUS POSITIVE PION REACTION AT 766 MEV. 25-119

EFFECT OF SHORT RANGED UNITARY TRANSFORMS ON THE RATE OF THE REACTION NEGATIVE PION PLUS DEUTERON GOES TO GAMMA RAY PLUS TWO NEUTRONS. 25-52

GOLD
EMF'S ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM BARE ELECTRODE EFFECTS, USE OF N UNEQUAL TO 2, PREMONITORY PHENOMENA AND LIQUID STRUCTURE IN GOLD -CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS 7-5

SPONTANEOUS MAGNETIC ORDER IN EXTREMELY DILUTE GOLD - IRON ALLOYS 8-42

PHOTOIONIZATION CROSS SECTIONS AND RADIATIVE RECOMBINATION RATE COEFFICIENTS FOR POSITIVE IONS OF CARBON AND GOLD 25-163

COMPARISON OF COPPER AND GOLD ORE RESPONSES TO NEUTRON CAPTURE AND DECAY GAMMA RAY TECHNIQUES WITH CALIFORNIUM -252. 25-33

GOLDEN
GOLDEN OPPORTUNITIES. 30-31

GONADAL
PLUTONIUM AND OTHER ACTINIDE ELEMENTS IN GONADAL TISSUE OF MAN AND ANIMALS. 5-114

GOVERNING
SYSTEMATIC AND GRAPHICAL METHOD FOR GENERATING THE KINETIC EQUATIONS GOVERNING THE GROWTH OF AGGREGATES. 6-16

GOVERNMENT
PROPRIETARY, STANDARD, AND GOVERNMENT SUPPORTED NUCLEAR DATA BASES. 25-180

GPA
ISOTHERMAL LINEAR AND VOLUME COMPRESSION OF PENTAERYTHRITOL TETRANITRATE (PETN) TO 10 GPA (100 KBAR) AND THE CALCULATED SHOCK COMPRESSION 15-16

GRADED
NEW METHOD FOR COATING MICROSPHERES WITH ZIRCONIUM CARBIDE AND ZIRCONIUM CARBIDE -CARBON GRADED COATS. 23-41

NEW METHOD FOR COATING MICROSPHERES WITH ZIRCONIUM CARBIDE AND ZIRCONIUM CARBIDE -CARBON GRADED COATS. 23-42

GRADIENT
PROCEDURE FOR THE RAPID LYSIS OF MAMMALIAN CELLS PRIOR TO ALKALINE SUCROSE DENSITY GRADIENT CENTRIFUGATION. 5-119

TIME DEPENDENT SOLUTION TO INTERSTITIAL DIFFUSION IN A TEMPERATURE GRADIENT. 7-24

USE OF ADIABATIC DEMAGNETIZATION TO MEASURE THE ELECTRIC FIELD GRADIENT IN CADMIUM 8-57

MATRIX MOTION OF LOW VOLUME MATRIX TUNGSTEN/NICKEL/IRON COMPOSITES SINTERED IN A TEMPERATURE GRADIENT. 23-37

ELECTRIC FIELD GRADIENT IN CADMIUM METAL AND THE DECAY OF METASTABLE CADMIUM -115. 25-61

GRADIENTS
GRADIENTS OF SOLAR PROTONS IN THE HIGH LATITUDE MAGNETOTAIL AND THE CONVECTION ELECTRIC FIELD. 1-11

NEW AND MORE ACCURATE METHOD FOR THE DIRECT MEASUREMENTS OF EARTH TEMPERATURE GRADIENTS IN DEEP BOREHOLES. 11-33

GRAINED
YIELD STRENGTH OF FINE GRAINED VANADIUM PRODUCED BY HIGH RATE PHYSICAL VAPOR DEPOSITION. 23-64

GRANDE
SEISMICITY OF THE NORTHERN RIO GRANDE RIFT ZONE, NEW MEXICO. 11-50

GRANITE
LABORATORY AND NUMERICAL STUDIES OF WATER - GRANITE INTERACTIONS AT ELEVATED TEMPERATURE AND PRESSURE. 11-25

CHEMICAL CORROSION OF MOLYBDENUM AND TUNGSTEN IN LIQUID BASALT, TUFF, AND GRANITE WITH APPLICATION TO SUBTERRENE PENETRATORS. 11-7

GRANITIC
DETERMINATION OF PERMEABILITY OF GRANITIC ROCKS IN GT-2 FROM HYDRAULIC FRACTURING DATA. 11-12

GRANULES
IODIZED STARCH GRANULES AS A CAUSE OF STARCH PERITONITIS. 5-84

GRAPH
BOND GRAPH JUNCTION STRUCTURES. 21-12

BOND GRAPH SIGN CONVENTIONS 21-13

GRAPHIC
ALGORITHMS TO REVEAL GRAPHIC TERMINAL CHARACTERISTICS. 21-1

GRAPHICAL
SYSTEMATIC AND GRAPHICAL METHOD FOR GENERATING THE KINETIC EQUATIONS GOVERNING THE GROWTH OF AGGREGATES. 6-16

GRAPHICS
COMPUTER GRAPHICS 118 COMPUTER GENERATED DESIGNS. 21-19

INTERACTIVE GRAPHICS SYSTEM FOR MECHANICAL DRAFTING AND DESIGN. 21-42

GRAPHITE
COMPUTERIZED INVENTORY/DESIGN SYSTEM FOR GRAPHITE MOLDS. 21-23

EXPERIMENTS ON URANIUM LOSS FROM URANIUM LOADED GRAPHITE AT ELEVATED TEMPERATURES. 23-20

INTERACTION BETWEEN CESIUM AND GRAPHITE FOR USE IN THE STUDY OF SURFACE PHENOMENA. 23-31

RESEARCH AND DEVELOPMENT ON GRAPHITE AND GRAPHITE MATRIX COMPOSITES AT LASL. 23-49

RESEARCH AND DEVELOPMENT ON GRAPHITE AND GRAPHITE MATRIX COMPOSITES AT LASL. 23-49

CRYOGENIC THERMAL EXPANSION OF Y-12 GRAPHITE FUEL ELEMENTS. 30-16

FABRICATION OF URANIUM LOADED GRAPHITE FUEL ELEMENTS FOR KIWI-B4/B5 REACTORS. 30-27

STRESS ANALYSIS AND STATIC TESTING OF KIWI GRAPHITE REFLECTOR CYLINDER STRUCTURES. 30-88

CATHODIC VACUUM ETCHING TECHNIQUES FOR GRAPHITE FUEL ELEMENT SECTIONS. 30-9

GRAPHITIC
GRAPHITIC FUELS FOR THE NUCLEAR ROCKET ENGINE. 28-16

GRASSLAND
DECOMPOSITION OF CARBON -14 LABELED PLANT MATERIALS IN A GRASSLAND SOIL UNDER FIELD CONDITIONS. 5-49

GRAVIMETER
SUPERNOVA REMNANT W44: A GALACTIC GRAVIMETER. 3-44

GRAVITY
POOL BOILING HEAT TRANSFER TO LIQUID HELIUM AND LIQUID NITROGEN IN A NEARLY ZERO GRAVITY ENVIRONMENT. 8-36

PERFORMANCE TESTS OF GRAVITY ASSIST HEAT PIPES WITH SCREEN WICK STRUCTURES. 13-12

GRAVITY ASSIST HEAT PIPES FOR THERMAL CONTROL SYSTEMS. 13-7

GRAVITY WAVES GENERATED BY THE CREATION OF A CYLINDRICAL CAVITY IN WATER. 15-12

GREATEST
GREATEST INTEGER THEOREM FOR FIBONACCI SPACES. 21-38

GRINDER
MANUAL SAMPLE GRINDER/POLISHER. 19-13

GROSS
DYNAMIC MODEL OF GROSS PLASMA MOTION IN SCYLLAC. 10-22

GROUND
CONFIGURATION INTERACTION STUDIES OF OZONE AND OZONE POSITIVE ION, GROUND AND EXCITED STATES. 4-12

GROUP
THERMODYNAMIC PROPERTIES OF THE BINARY LAVES PHASE COMPOUNDS OF PLUTONIUM WITH THE GROUP VIIIA METALS. 7-23

RADIOCHEMICAL ANALYTICAL RESULTS OF NAEG (NEVADA APPLIED ECOLOGY GROUP) SAMPLES BY LASL-HT. 17-48

FTRCUL: A COMPUTER CODE TO GROUP COLLAPSE FTR FILES AND OUTPUT STANDARD CCCC INTERFACE FILES. 21-34

GROWN
CELL CYCLE DEPENDENT SURFACE CHANGES IN CHINESE HAMSTER CELLS GROWN IN SUSPENSION CULTURE. 5-26

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF WHOLE CELLS AND OF CYTOCHROME C FROM NEUROSPORA CRASSA GROWN WITH CARBON -13 METHIONINE. 14-3

ELEVATED TEMPERATURE STRENGTHENING OF MELT GROWN SAPPHIRE BY ALLOYING. 23-19

GROWTH
CELL AGE DISTRIBUTION STUDY OF LSA ASCITES LYMPHOMA DURING GROWTH. 5-18

ANALYSIS OF CELL AGE DISTRIBUTION DURING ASCITES TUMOR GROWTH. 5-2

KINETICS OF HEMOLYTIC PLAQUE FORMATION. 5. THE INFLUENCE OF GEOMETRY ON PLAQUE GROWTH. 5-90

SYSTEMATIC AND GRAPHICAL METHOD FOR GENERATING THE KINETIC EQUATIONS GOVERNING THE GROWTH OF AGGREGATES. 6-16

BEAM EMITTANCE GROWTH IN A PROTON STORAGE RING EMPLOYING CHARGE EXCHANGE INJECTION. 22-4

THEORY OF IRRADIATION INDUCED GROWTH OF FATIGUE CRACKS. 23-57

REACTIVITY CHANGES DUE TO BUBBLE GROWTH OR COLLAPSE IN MOLTEN FUEL SYSTEMS. 28-36

ANALYSIS OF FIREBALL GROWTH IN SANDSTONE 30-2

GRUNEISEN
IMPLIED TEMPERATURE DEPENDENCE OF THE GRUNEISEN PARAMETER. 4-30

GT
CIRCULAR DICHROISM SPECTRA OF POLY D(AC)-D(GT)*, POLY R(AC)-R(GU)*, AND HYBRIDS POLY D(AC)-R(GU)* AND POLY R(AC)-D(GT)* IN THE PRESENCE OF ETHANOL. 5-40

CIRCULAR DICHROISM SPECTRA OF POLY D(AC)-D(GT)*, POLY R(AC)-R(GU)*, AND HYBRIDS POLY D(AC)-R(GU)* AND POLY R(AC)-D(GT)* IN THE PRESENCE OF ETHANOL. 5-40

GT-2
DETERMINATION OF PERMEABILITY OF GRANITIC ROCKS IN GT-2 FROM HYDRAULIC FRACTURING DATA. 11-12

NUMERICAL STUDIES OF THE THERMAL EVOLUTION OF INTRUSIONS IN RELATIONSHIP TO OBSERVED TEMPERATURES IN GT-2. 11-34

PLANNING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 1. 11-41

TESTING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 2. 11-57

TESTING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 3. 11-58

GU
CIRCULAR DICHROISM SPECTRA OF POLY D(AC)-D(GT)*, POLY R(AC)-R(GU)*, AND HYBRIDS POLY D(AC)-R(GU)* AND POLY R(AC)-D(GT)* IN THE PRESENCE OF ETHANOL. 5-40

CIRCULAR DICHROISM SPECTRA OF POLY D(AC)-D(GT)*, POLY R(AC)-R(GU)*, AND HYBRIDS POLY D(AC)-R(GU)* AND POLY R(AC)-D(GT)* IN THE PRESENCE OF ETHANOL. 5-40

GUIDE
GUIDE TO GAMMA RAY ASSAY FOR NUCLEAR MATERIAL ACCOUNTABILITY. 26-8

GUN
PLANE SHOCK INITIATION OF DETONATION: COMPUTER SIMULATION OF GAS GUN EXPERIMENT. 15-20

PROJECTILE VELOCITY MEASUREMENTS AND QUARTZ AND MANGANIN GAUGE PRESSURE DETERMINATIONS IN GAS GUN EXPERIMENTS. 15-22

G2
BIOCHEMISTRY OF G2 AND MITOSIS. 5-11

DIFFERENT DRUGS ARREST CELLS AT A NUMBER OF DISTINCT STAGES IN G2. 5-53

H
POLARIZED H MINUS SOURCE FOR LAMPF. 21-65

PERFORMANCE OF THE LAMPF H MINUS INJECTOR. 22-39

CALCIUM -41 (DEUTERON,TRITON) AND (DEUTERON,H) REACTIONS. 25-24

H-DIVISION
H-DIVISION PROGRESS REPORT 20 MAY 1949 -20 JUNE 1949. 5-70

H-DIVISION PROGRESS REPORT, 20 JULY 1949 - 20 AUGUST 1949. 5-71

H-DIVISION PROGRESS REPORT, 20 JUNE 1949 - 20 JULY 1949. 5-72

HADRON
ESTIMATES OF CLUSTER SIZE IN HIGH ENERGY HADRON COLLISIONS. 25-69

HADRONIC
NUCLEAR RESONANCES IN HADRONIC ATOMS. 4-43

HADRONIC ATOMS AND TICKLISH NUCLEI: THE E2 NUCLEAR RESONANCE EFFECT. 25-88

HADRONIC ATOMS AND TICKLISH NUCLEI: THE E2 NUCLEAR RESONANCE EFFECT. 25-89

HADRONS
NON-EIKONAL APPROACH TO THE SCATTERING OF HADRONS FROM NUCLEI 2 PROTON AND PION SCATTERING FROM DEUTERIUM, HELIUM -3 AND HELIUM -4. 25-139

HAFNIUM
ENTHALPY OF FORMATION OF HAFNIUM DIOXIDE. 7-6

HALF
HALF LIVES OF XENON -129M, XENON -131M, XENON -133M, XENON -133G, AND XENON -135G. 25-90

HALIDE
QUASICLASSICAL TRAJECTORY STUDY OF THE MOLECULAR BEAM KINETICS OF THE DEUTERIUM ATOM - HYDROGEN HALIDE EXCHANGE REACTION. 6-15

HALOGEN
STRATOSPHERIC HALOGEN MEASUREMENTS. 1-29

HAMILTONIANS
FORMAL DERIVATION OF EFFECTIVE SPIN HAMILTONIANS FOR MACROSCOPIC MAGNETIC INSULATOR SYSTEMS 4-24

PERTURBATION THEORY OF EFFECTIVE HAMILTONIANS. 25-158

BHABHA FIRST ORDER WAVE EQUATIONS 2 MASS AND SPIN COMPOSITION. HAMILTONIANS AND GENERAL SAKATA TAKETANI REDUCTIONS 25-21

HAMSTER
ACE RESPONSE FOR LINE CHO CHINESE HAMSTER CELLS EXPOSED TO X IRRADIATION AND ALPHA PARTICLES FROM PLUTONIUM. 5-1

PHOTO INDUCED DNA PROTEIN ADDUCTS IN CHINESE HAMSTER OVARY CELL CHROMATIN 5-110

RNA SYNTHESIS IN CHINESE HAMSTER CELLS 3. NON-COORDINATE INCREASES DURING INTERPHASE IN SYNTHESIS RATES FOR INFORMOSOMAL, POLYSOMAL, AND HETEROGENEOUS NUCLEAR RNAS. 5-129

SEQUENTIAL PHOSPHORYLATION OF HISTONE SUBFRACTIONS IN THE CHINESE HAMSTER CELL CYCLE. 5-131

CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES. 5-24

CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES. 5-25

CELL CYCLE DEPENDENT SURFACE CHANGES IN CHINESE HAMSTER CELLS GROWN IN SUSPENSION CULTURE. 5-26

APPEARANCE OF CYTOPLASMIC INFORMOSOMES IN CULTURED CHINESE HAMSTER CELLS IN THE ABSENCE OF PROTEIN SYNTHESIS 5-4

EVIDENCE THAT X IRRADIATION INHIBITS DNA REPLICON INITIATION IN CHINESE HAMSTER CELLS 5-62

EXISTENCE OF A RESIDUAL NUCLEAR PROTEIN MATRIX IN CULTURED CHINESE HAMSTER CELLS. 5-64

FLOW MICROFLUOROMETRIC ANALYSIS OF ISOLATED CHINESE HAMSTER CHROMOSOMES 5-65

HEAVY ION IRRADIATION OF HUMAN AND CHINESE HAMSTER CELLS IN VITRO. 5-74

HANDBOOK
LOS ALAMOS PROJECT HANDBOOK: CHEMISTRY OF PLUTONIUM. 7-1a

SOLAR HEATING HANDBOOK FOR LOS ALAMOS. 12-20

LOS ALAMOS HANDBOOK OF NUCLEAR PHYSICS. 25-104

HANDLING
RADIOACTIVITY, RADIATION DAMAGE, AND REMOTE HANDLING. 13-13

TRITIUM HANDLING FACILITIES AT THE LOS ALAMOS SCIENTIFIC LABORATORY. 13-18

GAS HANDLING SYSTEM FOR STUDIES OF TRITIUM CONTAINING MATERIALS. 13-6

CONFINEMENT FACILITIES FOR HANDLING PLUTONIUM. 17-5

MONITOR: A VERSATILE REMOTE HANDLING SYSTEM. 22-32

HAPTEN
KINETICS OF HEMOLYTIC PLAQUE FORMATION. 2. INHIBITION OF PLAQUES BY HAPTEN. 5-87

HARDENING
ONE DIMENSIONAL ELASTIC - PLASTIC CALCULATIONS INVOLVING STRAIN HARDENING AND STRAIN RATE EFFECTS FOR ALUMINUM. 23-44a

ONE DIMENSIONAL ELASTIC - PLASTIC CALCULATIONS INVOLVING STRAIN HARDENING AND STRAIN RATE EFFECTS FOR ALUMINUM. 23-45

HARMONIC
SPECTRAL ACCEPTANCE FOR SECOND HARMONIC GENERATION IN CD*A (CESIUM DIDEUTERIUM ARSENATE). 20-137

ELECTRIC FIELD INDUCED HARMONIC GENERATION AS A PROBE OF THE FOCAL REGION OF A LASER BEAM. 20-32

COARSE MESH REBALANCE METHODS COMPATIBLE WITH THE SPHERICAL HARMONIC FICTITIOUS SOURCE IN NEUTRON TRANSPORT CALCULATIONS. 24-6

DISCRETE ORDINATE TO SPHERICAL HARMONIC CONVERSIONS FOR RAY EFFECT MITIGATION IN X-Y GEOMETRY. 24-9

DISORDERED HARMONIC CHAIN WITH SELF CONSISTENT RESERVOIRS. 27-6

HARTREE-FOCK
HARTREE-FOCK COMPTON PROFILES FOR THE ELEMENTS. 4-25

RELATIVISTIC HARTREE-FOCK COMPTON PROFILES FOR THE RARE GASES AND LEAD. 4-56

DEFORMED HARTREE-FOCK DESCRIPTION OF THE IRON, NICKEL, AND ZINC ISOTOPES. 25-44

HAWAII
MANTLE PROCESSES BENEATH HAWAII. 11-28

HAZARD
AEROSOL RESEARCH AND DEVELOPMENT RELATED TO HEALTH HAZARD ANALYSIS. LASL PROJECT R-038, APRIL 1 THROUGH JUNE 30, 1972. 17-1

HB21
AGE OF HB21 AND PSR2021+51. 3-2

HE-II
HIGH TEMPERATURE MEASUREMENTS OF THE STARK BROADENED HE-II 4686 ANGSTROM LINE PROFILE. 10-49

HEALTH
PLUTONIUM: HEALTH IMPLICATIONS FOR MAN. 1974. 2ND LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROCEEDINGS 5-115

RADIOLOGICAL HEALTH IN INDUSTRIAL MEDICAL PRACTICE. 5-121

HEALTH DIVISION ANNUAL REPORT 1952. 5-73

AEROSOL RESEARCH AND DEVELOPMENT RELATED TO HEALTH HAZARD ANALYSIS. LASL PROJECT R-038, APRIL 1 THROUGH JUNE 30, 1972. 17-1

HEARINGS
CONCERNS OF INTERVENORS IN NUCLEAR POWER PLANT LICENSING HEARINGS. 30-14

HEAT
HEAT FLUX INSTABILITIES IN THE SOLAR WIND. 1-12

ELECTRON HEAT FLUX INSTABILITIES IN THE SOLAR WIND. 1-6

EVIDENCE FOR THE REGULATION OF SOLAR WIND HEAT FLUX AT 1 AU. 1-9

FORCED CONVECTION HEAT TRANSFER WITH TWO PHASE FLOW. 8-18

POOL BOILING HEAT TRANSFER TO LIQUID HELIUM AND LIQUID NITROGEN IN A NEARLY ZERO GRAVITY ENVIRONMENT. 8-36

CURRENT DRIVEN INSTABILITIES IN THE PRESENCE OF HEAT CONDUCTION. 10-16

HEAT TRANSFER MODEL FOR COMPOSITE FIRST WALL MATERIALS IN A PULSED HIGH BETA CONTROLLED THERMONUCLEAR REACTOR (CTR). 10-46

DEVELOPMENT PROGRAM FOR THE HIGH TEMPERATURE NUCLEAR PROCESS HEAT SYSTEM. 12-6

ELECTROCHEMICAL HEAT ENGINES FOR DIRECT ELECTRIC POWER GENERATION AND ENERGY STORAGE. 12-8

ENERGY RECOVERY AND OTHER ENERGY RELATED APPLICATIONS OF THE HEAT PIPE. 12-9

NUCLEAR PROCESS HEAT. 13-11

PERFORMANCE TESTS OF GRAVITY ASSIST HEAT PIPES WITH SCREEN WICK STRUCTURES. 13-12

GRAVITY ASSIST HEAT PIPES FOR THERMAL CONTROL SYSTEMS. 13-7

FISSION PRODUCT GAMMA AND (GAMMA,NEUTRON) SPECTRA AND GAMMA DECAY HEAT. 16-2

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES OCTOBER 1 - DECEMBER 31, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-20

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, APRIL 1 - JUNE 30, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-21

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JANUARY 1 - MARCH 31, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-22

PROGRESS REPORT. ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JULY 1 THROUGH SEPTEMBER 30, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-45

DIRECT EVALUATION OF TRANSIENT SURFACE TEMPERATURES AND HEAT FLUXES. 20-25

LASER APPLICATION OF HEAT PIPE TECHNOLOGY IN ENERGY RELATED PROGRAMS. 20-67

ENGINEERING APPLICATIONS OF ADI (ALTERNATING - DIRECT - IMPLICIT) METHODS TO PIECEWISE LINEAR MULTIDIMENSIONAL HEAT TRANSFER. 21-31

EFFECTS OF SOLUTION AND INTERMEDIATE HEAT TREATMENTS ON THE NOTCH - RUPTURE BEHAVIOR OF INCONEL 718. 23-17

HEAT OF COMBUSTION OF DELTA PLUTONIUM. 23-24

USE OF A GENERAL PURPOSE HEAT TRANSFER CODE FOR CASTING SIMULATION. 23-60

USE OF INTERMEDIATE HEAT TREATMENTS FOR THE RESTORATION OF THE NOTCH RUPTURE PROPERTIES OF INCONEL 718. 23-61

DEGRADATION OF PIONEER TYPE TANTALUM ALLOY - PLUTONIUM DIOXIDE HEAT SOURCES. 23-9

MODEL FOR HEAT CONDUCTION WITH FINITE SIGNAL SPEED. 27-11

EVIDENCE FOR ORDER DISORDER IN PLUTONIUM CARBIDE (0.80) AT LOW TEMPERATURES THROUGH SPECIFIC HEAT MEASUREMENTS. 29-2

HYDROGEN AND FOOD FROM NUCLEAR HEAT AND MUNICIPAL WASTES. 30-32

KIWI-B HEAT EXCHANGER AND NEUTRONICS -DYNAMICS ANALYSIS. 30-37

HEATING
EVIDENCE FOR LOCAL ION HEATING IN SOLAR WIND HIGH SPEED STREAMS. 1-8

RESONANT HEATING EXPERIMENT. 10-113

RESULTS FROM THE LASL IMPLOSION HEATING EXPERIMENT. 10-114

ELECTRON HEATING AND LANDAU DAMPING IN INTENSE LOCALIZED ELECTRIC FIELDS. 10-26

IMPLOSION HEATING STUDIES IN THE SCYLLA IB, IMPLOSION HEATING, AND STAGED THETA PINCH EXPERIMENTS. 10-56

ION COUPLING, ELECTRON HEATING, AND MAGNETIC TURBULENCE FROM PLASMA INSTABILITIES. 10-63

NUMERICAL MODELING OF MAGNETIC IMPLOSION HEATING AND FIELD DIFFUSION IN PINCHES. 10-87

SOLAR HEATING HANDBOOK FOR LOS ALAMOS. 12-20

DESIGN CONSIDERATIONS OF AIR COOLED COLLECTOR/ROCK-BIN STORAGE SOLAR HEATING SYSTEMS. 12-4

PLASMA HEATING BY RELATIVISTIC ELECTRON BEAMS. PART 2. RETURN CURRENT INTERACTION. 20-117

HEATING BY SECONDARY PARTICLES AT MESON FACTORIES. 22-17

EUROPIA HEATING IN CONTROL RODS. 28-10

BENCHMARK DOPPLER MEASUREMENTS USING A HYBRID STATIC/DYNAMIC HEATING TECHNIQUE. 28-3

MONTE CARLO CALCULATION OF THE GAMMA RAY HEATING IN A PHOEBUS 1 NOZZLE FROM CORE SOURCES. 30-49

HEAVY
HEAVY METHANES AS ATMOSPHERIC TRACERS 1-13

SOLAR WIND HEAVY ION ABUNDANCES 1-25

PIONS AND HEAVY IONS IN RADIOTHERAPY: A BRIEF REVIEW. 5-113

CELL SURVIVAL AS A FUNCTION OF DEPTH FOR NEGATIVE PIONS AND HEAVY IONS. 5-30

HEAVY ION IRRADIATION OF HUMAN AND CHINESE HAMSTER CELLS IN VITRO. 5-74

MECHANISM OF HEAVY ION REACTIONS AND THE PRODUCTION OF SUPERHEAVY NUCLEI. 25-116

NUCLEAR STRUCTURE STUDIES IN HEAVY DEFORMED NUCLEI USING MUONIC ATOMS. 25-147

RELATIVISTIC HYDRODYNAMIC THEORY OF HEAVY ION COLLISIONS. 25-196

STATICS AND DYNAMICS OF HEAVY ION COLLISIONS. 25-210

COMPLETE FUSION CROSS SECTIONS IN HEAVY ION REACTIONS. 25-34

100 MHZ POWER AMPLIFIER DESIGN AND CONTROL FOR A HEAVY ION ACCELERATOR. 27-1

DESIGN STUDIES OF HEAVY ION LINEAR ACCELERATORS CONSTRUCTED OF INDEPENDENTLY PHASED SPIRAL RESONATORS. 27-3

HEISENBERG
IS SOLID HELIUM -3 A HEISENBERG ANTIFERROMAGNET 8-22

HELIOCENTRIC
SOLAR WIND STREAM EVOLUTION AT LARGE HELIOCENTRIC DISTANCES: EXPERIMENTAL DEMONSTRATION AND THE TEST OF A MODEL. 1-26

HELIONS
OPTICAL MODEL POTENTIALS FOR DEUTERONS, TRITONS AND HELIONS. 25-150

HELIUM
ASSOCIATIVE IONIZATION AND EXCITATION TRANSFER IN HELIUM. 4-2

DISSOCIATIVE EXCITATION CHANNELS IN THE INTERACTION OF ARGON(3-P-0,2) AND HELIUM (2-3-S) METASTABLE ATOMS WITH METHANE, ETHYLENE, ACETYLENE, AND BENZENE. 6-6

ELECTRICAL BREAKDOWN AND TRACKING CHARACTERISTICS OF PULSED HIGH VOLTAGES IN CRYOGENIC HELIUM AND NITROGEN 8-15

IS SOLID HELIUM -3 A HEISENBERG ANTIFERROMAGNET 8-22

POOL BOILING HEAT TRANSFER TO LIQUID HELIUM AND LIQUID NITROGEN IN A NEARLY ZERO GRAVITY ENVIRONMENT 8-36

THERMAL BEHAVIOR OF ORDERED LIQUID HELIUM -3 8-54

VERY LOW TEMPERATURE PROPERTIES OF LIQUID HELIUM -3. 8-61

DIRECT NUCLEAR PUMPING OF A HELIUM -XENON LASER. 20-26

TWO BODY PHOTODISINTEGRATION OF HELIUM -3 AND HYDROGEN -3 22-53

HELIUM EFFECTS IN PLUTONIUM -238 DIOXIDE FUEL FORMS. 23-25

HELIUM RELEASE OF PLUTONIA -238 -MOLYBDENUM CERMET FUEL. 23-26

NON-EIKONAL APPROACH TO THE SCATTERING OF HADRONS FROM NUCLEI. 2. PROTON AND PION SCATTERING FROM DEUTERIUM, HELIUM -3 AND HELIUM -4. 25-139

PI (PLUS AND MINUS) - HELIUM -4 TOTAL CROSS SECTIONS FROM 50-100 MEV. 25-166

STUDY OF THE (TRITON,PROTON) REACTIONS ON HELIUM -4, LITHIUM -6, LITHIUM -7 AND BERYLLIUM -9. 25-211

TEST OF THE GENERALIZED PAULI PRINCIPLE AND OF SUPERMULTIPLET SYMMETRY IN THE REACTIONS TRITON + BERYLLIUM -8 TO LITHIUM -6 + HELIUM -6, LITHIUM -6(*0+) + HELIUM -6. 25-217

THREE BODY PHOTODISINTEGRATION OF HELIUM -3. 25-221

TOTAL NEUTRON CROSS SECTIONS OF HELIUM -3, HELIUM -4, LITHIUM -6, LITHIUM -7 IN THE MEV RANGE. 25-225

TRITIUM (DEUTERON,NEUTRON) HELIUM -4 AND TRITIUM (TRITON,2NEUTRON) CROSS SECTIONS AT LOW ENERGIES. 25-227

CHARGE INDEPENDENCE IN THE MASS 6 SYSTEM AS OBSERVED IN THE LITHIUM -6 (TRITON, HELIUM -3)HELIUM -6(0.0) AND LITHIUM -6 (TRITON,TRITON') LITHIUM -6 (3.56) REACTIONS. 25-28

COMPARISON OF (TRITON,HELIUM -3), (HELIUM -3,TRITON) AND (HELIUM -3,PROTON) REACTIONS OF F-P SHELL NUCLEI. 25-32

DEPOLARIZATION OF NEGATIVE MUONS IN LIQUID HELIUM. 25-46

ELASTIC PION HELIUM -4 SCATTERING. 25-56

ANALOGS OF THE SILICON -28 COLLECTIVE M1 STATES OBSERVED IN THE SILICON -28 (TRITON,HELIUM -3) ALUMINUM -28 REACTION. 25-9

HELIUM -3 PLUS GAMMA TO 2 PROTONS PLUS NEUTRON. 25-91

HELIUM -3(GAMMA,NEUTRON) 2 PROTON AND HELIUM -3(GAMMA,PROTON) NP REACTIONS. 25-92

HYDROGEN -3 - HELIUM -3 BINDING ENERGY DIFFERENCE AND POSSIBLE CHARGE ASYMMETRY EFFECTS IN THE NUCLEON - NUCLEON FORCE. 25-95

DISINTEGRATION OF HELIUM -3 BY FAST NEUTRONS. 27-5

PROPOSED FEDERAL HELIUM CONSERVATION POLICY AS RELATED TO THE HELIUM DEMANDS OF ENERGY RELATED NEW TECHNOLOGIES. 30-67

HELIX
PERFORMANCE OF THE LASL Q3D SPECTROMETER AND HELIX DETECTOR SYSTEM. 25-157

Q3D SPECTROMETER WITH A HELIX DETECTOR SYSTEM. 25-186

HELMET
OBSERVED CORONAL TEMPERATURES AT 1.37 SOLAR RADII IN THE REGION OF A HELMET STRUCTURE. 3-32

HEMOGLOBIN
NUCLEAR MAGNETIC RESONANCE OF ROTATIONAL MOBILITY OF MOUSE HEMOGLOBIN LABELED WITH (2- CARBON -13) HISTIDINE. 5-106

HEMOLYTIC
KINETICS OF HEMOLYTIC PLAQUE FORMATION. 2. INHIBITION OF PLAQUES BY HAPTEN. 5-87

KINETICS OF HEMOLYTIC PLAQUE FORMATION. 3. INHIBITION OF PLAQUES BY ANTIGEN. 5-88

KINETICS OF HEMOLYTIC PLAQUE FORMATION. 4. IGM PLAQUE INHIBITION. 5-89

KINETICS OF HEMOLYTIC PLAQUE FORMATION. 5. THE INFLUENCE OF GEOMETRY ON PLAQUE GROWTH. 5-90

HEPA
MULTIPLE HEPA FILTER TEST METHODS, JULY 1, 1974 - MARCH 31, 1975. 17-32

PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS FOR PERIOD JULY 1 THROUGH DECEMBER 31, 1972 17-36

PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS FOR THE PERIOD MARCH 1 THROUGH JUNE 30, 1972. 17 37

PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS. 17-38

HETERODYNE
HETERODYNE INTERFEROMETRY PLASMA DENSITY MEASUREMENT. 10-47

HETEROGENEOUS
RNA SYNTHESIS IN CHINESE HAMSTER CELLS. 3. NON-COORDINATE INCREASES DURING INTERPHASE IN SYNTHESIS RATES FOR INFORMOSOMAL, POLYSOMAL, AND HETEROGENEOUS NUCLEAR RNAS. 5-129

HETEROPLOID
CELLULAR DNA CONTENT AND CHROMOSOME NUMBER IN HETEROPLOID CELL POPULATIONS. 5-31

HETEROPLOIDY
DNA CONSTANCY IN HETEROPLOIDY AND THE STEM LINE THEORY OF TUMORS. 5-56

HEXAAMMINE
NEUTRON DIFFRACTION STUDY OF HEXAAMMINE D3 CALCIUM(0) AT 75 DEGREES KELVIN. 9-15

HEXACYANIDE
PHONON DRIVEN PHASE CHANGE IN CESIUM LITHIUM CHROMIUM HEXACYANIDE. 9-18

HEXAFLUORIDE
MOSSHAUER STUDY OF RARE GAS MATRIX ISOLATED TELLURIUM -125 DIMERS, TELLURIUM -125 HEXAFLUORIDE, AND TELLURIUM -125 TETRACHLORIDE MOLECULES. 4-40

OCTAHEDRAL FINE STRUCTURE SPLITTINGS IN NU(3) OF SULFUR HEXAFLUORIDE. 4-44

STATISTICAL THERMODYNAMIC PROPERTIES OF HEXAFLUORIDE MOLECULES. 4-64

VIBRATIONAL SPECTRUM AND FORCE FIELD OF MOLYBDENUM HEXAFLUORIDE. 4-69

ABSORPTION SPECTRUM OF URANIUM HEXAFLUORIDE FROM 2000 TO 4200 ANGSTROMS. 20-1

TEMPERATURE DEPENDENT ABSORPTION SPECTRUM OF THE NU(3) BAND OF SULFUR HEXAFLUORIDE AT 10.6 MICRONS. 20-150

TIME RESOLVED OUTPUT SPECTRUM FROM A HYDROGEN FLUORIDE LASER USING MIXTURES OF SULFUR HEXAFLUORIDE AND HYDROGEN IODIDE. 20-156

ISOTOPIC ENRICHMENT OF SULFUR HEXAFLUORIDE IN SULFUR -34 BY MULTIPLE ABSORPTION OF CARBON DIOXIDE LASER RADIATION. 20-64

THERMODYNAMIC PROPERTIES OF PLUTONIUM HEXAFLUORIDE. A PRELIMINARY REPORT. 23-59

NEUTRON MEASUREMENTS OF URANIUM -22, ISOTOPIC ABUNDANCE IN URANIUM HEXAFLUORIDE SAMPLES. 26-11

ON LINE MEASUREMENT OF THE ISOTOPIC COMPOSITION OF URANIUM IN URANIUM HEXAFLUORIDE. 26-20

HEXAFLUORIDES
MATRIX PHOTO-SPECTROSCOPY OF METAL HEXAFLUORIDES. 4-36

HIERARCHICAL
MONTE CARLO METHOD FOR PROBLEMS OF HIERARCHICAL INFERENCE. 21-49

HIGH
GRADIENTS OF SOLAR PROTONS IN THE HIGH LATITUDE MAGNETOTAIL AND THE CONVECTION ELECTRIC FIELD. 1-11

EVIDENCE FOR LOCAL ION HEATING IN SOLAR WIND HIGH SPEED STREAMS. 1-8

NEUTRON STAR MODELS WITH REALISTIC HIGH DENSITY EQUATIONS OF STATE. 3-28

HIGH ALTITUDE LOSS CONE AND CHARGE EXCHANGE CALCULATIONS, AND COMPARISON WITH STARFISH DATA. 4-26

HIGH ORDER VACUUM POLARIZATION IN EXOTIC ATOMS. 4-27

LARGE ANGLE AMPLITUDE FOR POTENTIAL SCATTERING AT HIGH ENERGY. 4-33

OSCILLATOR STRENGTHS FROM LINE ABSORPTION IN A HIGH TEMPERATURE FURNACE. 2. THE (0,0) BAND OF THE B(2)SIGMA(+) -X(2)SIGMA (+) TRANSITION IN CYANOGEN. 4-48

BACKWARD POTENTIAL SCATTERINGS AT HIGH ENERGY. 4-6

HIGH SPEED OPTICAL ANALYSIS OF MICROSCOPIC PARTICLES. 5-75

HYDRATION ENERGIES AND SPECIFIC INFLUENCE OF OXO COMPLEXES AND HIGH COORDINATION NUMBERS ON THE PREDICTED CHEMISTRY OF SUPERHEAVY ELEMENTS. 7-9

ELECTRICAL BREAKDOWN AND TRACKING CHARACTERISTICS OF PULSED HIGH VOLTAGES IN CRYOGENIC HELIUM AND NITROGEN. 8-15

ADJACENT CONDUCTOR FIELD CORRECTIONS TO HIGH CRITICAL CURRENT SHORT SAMPLE MEASUREMENTS. 8-3

PREPARATION OF HIGH T(C) NIOBIUM(3) GERMANIUM SUPERCONDUCTORS BY CHEMICAL VAPOR DEPOSITION. 8-37

HIGH ANGULAR RESOLUTION SECONDARY ELECTRON SPECTROSCOPY: KIKUCHI CORRELATIONS FOR ARSENIC (0001). 9-11

PLASMA EXPERIMENTS ON THE HIGH DENSITY SCYLLA I-C THETA PINCH. 10-101

STABILITY OF A DIFFUSE, HIGH BETA, L = 1 SYSTEM. 10-133

STABILITY OF KINK MODES IN HIGH BETA TOKAMAKS. 10-134

STABILITY OF KINK MODES IN HIGH BETA TOKAMAKS. 10-135

STRUCTURAL ENDURANCE CONSTRAINTS FOR HIGH FIELD THETA PINCH COILS. COILS. 10-140

SUPERSONIC FLOW RESULTING FROM THE INTERACTION OF A HIGH FREQUENCY CAPACITOR OR ELECTROMAGNETIC FIELD WITH AN EXPANDING PLASMA. 10-141

CTR APPLICATIONS OF THE HIGH DENSITY LINEAR THETA PINCH. 10-15

ELECTROMAGNETIC ION CYCLOTRON INSTABILITY DRIVEN BY ION ENERGY ANISOTROPY IN HIGH BETA PLASMAS. 10-25

EQUILIBRIUM AND STABILITY OF HIGH BETA DIFFUSE TOKAMAKS. 10-34

HEAT TRANSFER MODEL FOR COMPOSITE FIRST WALL MATERIALS IN A PULSED HIGH BETA CONTROLLED THERMONUCLEAR REACTOR (CTR). 10-46

HIGH DENSITY LINEAR SYSTEMS FOR FUSION POWER. 10-48

HIGH TEMPERATURE MEASUREMENTS OF THE STARK BROADENED HE-II 4686 ANGSTROM LINE PROFILE. 10-49

HYBRID - KINETIC MODEL FOR HIGH BETA PLASMAS. 10-51

HYBRID MODEL STUDIES OF MAGNETIC FIELD DIFFUSION IN HIGH BETA PINCHES. 10-52

IMPLOSION MEASUREMENTS IN A HIGH VOLTAGE, LARGE DIAMETER, MEDIUM DENSITY THETA PINCH. 10-57

CHARACTERISTICS OF HIGH DENSITY THETA PINCHES SEEDED WITH SELECTED HIGH Z ELEMENTS. 10-6

DEVELOPMENT PROGRAM FOR THE HIGH TEMPERATURE NUCLEAR PROCESS HEAT SYSTEM. 12-6

HIGH TEMPERATURE VACUUM THERMAL STABILITY TESTS OF EXPLOSIVES. 15-13

USE OF HIGH ENERGY, SHORT PULSE EXPLOSIVE GENERATORS TO DRIVE ELECTROMAGNETIC IMPLOSIONS. 15-29

IODINE -131 RELEASE FROM AN HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) DURING THE LOFC (LOSS OF COOLANT) ACCIDENT. 17-30

DETONATION OF HIGH EXPLOSIVES IN LAGRANGIAN HYDRODYNAMIC CODES USING THE PROGRAMMED BURN TECHNIQUE. 18-9

ROTATIONAL TEMPERATURE IN A HIGH PRESSURE PULSED CARBON DIOXIDE LASER. 20-134

TIME DEPENDENCE OF ROTATIONAL TEMPERATURE IN A HIGH PRESSURE PULSED CARBON DIOXIDE LASER. 20-155

UV PHOTOIONIZATION PROCESSES IN SEEDED HIGH PRESSURE LASER GASES. 20-162

VERY HIGH INTENSITY REACTION CHAMBER DESIGN. 20-163

EFFECT OF REFRACTIVE INDEX NONLINEARITY ON THE OPTICAL QUALITY OF HIGH POWER LASER BEAMS. 20-29

HIGH ENERGY IONS FROM A CARBON DIOXIDE LASER PRODUCED PLASMA. 20-48

HIGH RESOLUTION Q-BRANCH SPECTRUM FOR CARBON DIOXIDE AT 618 MILLIMETERS. 20-49

HIGH SPEED DIGITIZING WITH CAMAC. 20-50

ANALYSIS OF HOMOPOLAR GENERATORS AND SUPERCONDUCTING INDUCTIVE ENERGY STORAGE SYSTEMS AS POWER SUPPLIES FOR HIGH ENERGY, SPACE BASED LASERS. 20-7

ANOMALOUS DISPERSION EFFECTS ON PULSE PROPAGATION IN HIGH PRESSURE CARBON DIOXIDE AMPLIFIERS. 20-8

LASER SYSTEMS FOR HIGH PEAK POWER APPLICATIONS. 20-62

MIXTURE STABILITY IN HIGH POWER PULSED HYDROGEN - FLUORINE CHEMICAL LASERS. 20-95

MULTILINE SHORT PULSE AMPLIFICATION AND COMPRESSION IN HIGH GAIN CARBON DIOXIDE LASER AMPLIFIER. 20-99

HIGH ENERGY NEUTRON SPECTRA AT THE LAMPF RADIATION EFFECTS FACILITY. 22-18

ACTIVE CORRECTIVE ELEMENT FOR HIGH RESOLUTION MAGNETIC OPTICS. 22-2

PERFORMANCE OF THE HIGH ENERGY PION BEAM AT LAMPF. 22-38

PROTOTYPE HIGH CURRENT, HIGH DUTY FACTOR NEGATIVE HYDROGEN ION SOURCE FOR LAMPF. 22-44

PROTOTYPE HIGH CURRENT, HIGH DUTY FACTOR NEGATIVE HYDROGEN ION SOURCE FOR LAMPF. 22-44

TECHNIQUES FOR HIGH PRECISION MAGNETIC FIELD MAPPING OF LARGE AREA DIPOLES 22-51

EFFECTS OF NEUTRON IRRADIATION ON CRITICAL CURRENT OF NIOBIUM(3)TIN AT HIGH FIELD. 23-15

FRACTURE BEHAVIOR OF IRIDIUM 0.3 PERCENT TUNGSTEN AT HIGH STRAIN RATES. 23-23

HIGH DENSITY METALS AND METALLIC COMPOSITES FOR IMPROVED FRAGMENTATION SUBMUNITIONS. 23-27

HIGH ENERGY PROTON SIMULATION OF 14 MEV NEUTRON DAMAGE IN ALUMINUM OXIDE. 23-28

HIGH RATE PHYSICAL VAPOR DEPOSITION OF REFRACTORY METALS. 23-29

YIELD STRENGTH OF FINE GRAINED VANADIUM PRODUCED BY HIGH RATE PHYSICAL VAPOR DEPOSITION. 23-64

ZIRCONIUM CARBIDE, A KEY INGREDIENT FOR HIGH TEMPERATURE NUCLEAR FUELS. 23-65

MULTIPLE EXCHANGE AND HIGH ENERGY FIXED ANGLE SCATTERING. 25-123

NEW HIGH PRECISION MEASUREMENT OF THE MUONIUM HYPERFINE STRUCTURE INTERVAL DELTA NU. 25-137

TIME ORDERING OF HIGH ENERGY MULTIPARTICLE PRODUCTION. 25-224

50 MEV POLARIZED NEUTRON FACILITY INCORPORATING A HIGH PRESSURE TRITIUM GAS TARGET. 25-6

ESTIMATES OF CLUSTER SIZE IN HIGH ENERGY HADRON COLLISIONS. 25-69

HIGH ENERGY NUCLEAR REACTIONS IN OUR PLANETARY SYSTEM. 25-93

HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE, 1975, 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS. 25-94

NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL RODS. 26-12

IN-PLANT NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL MATERIALS. 26-9

UNIFIED APPROACH TO MULTIPARTICLE PRODUCTION PROCESSES AT HIGH ENERGY. 27-20

HIGH TEMPERATURE NUCLEAR REACTORS AS AN ENERGY SOURCE FOR HYDROGEN PRODUCTION. 28-17

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, JANUARY THROUGH MARCH 1975. 28-18

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, APRIL -JUNE 1975. 28-19

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, JULY -SEPTEMBER 1975. 28-20

PROPOSAL FOR ANALYSIS OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) CORE RESPONSE TO SEISMIC INPUT. 28-31

QUARTERLY REPORT, HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM OCTOBER THROUGH DECEMBER 1974. 28-34

FEASIBILITY STUDY OF THE DISPOSAL OF A ROVER REACTOR WITH HIGH EXPLOSIVES. 30-28

HIGHER
HIGHER ORDER CORRECTIONS TO ENERGY LEVELS OF MUONIC ATOMS. 4-28

HIGHLIGHTS
CONTROLLED FUSION RESEARCH: HIGHLIGHTS OF THE TOKYO IAEA CONFERENCE AND SUBSEQUENT DEVELOPMENTS. 10-11

HILL
WATER QUALITY IN VICINITY OF FENTON HILL SITE, 1974. 11-62

HINDERED
STRUCTURE AND HINDERED MOTION OF BORON (3) HYDROGEN(6) ANIONS IN SOLIDS: AN NMR (NUCLEAR MAGNETIC RESONANCE) STUDY. 14-12

HISTIDINE
NUCLEAR MAGNETIC RESONANCE OF ROTATIONAL MOBILITY OF MOUSE HEMOGLOBIN LABELED WITH (2- CARBON -13) HISTIDINE. 5-106

HISTONE
RELATIONSHIP OF HISTONE PHOSPHORYLATION TO THE CHROMOSOME CYCLE 5-127

SEQUENTIAL PHOSPHORYLATION OF HISTONE SUBFRACTIONS IN THE CHINESE HAMSTER CELL CYCLE. 5-131

CELL CYCLE DEPENDENT PHOSPHORYLATION OF DIFFERENT REGIONS OF F1 HISTONE. 5-23

HISTONES
CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES. 5-24

CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES. 5-25

HOLE
GAMMA RAY BURSTS FROM BLACK HOLE ACCRETION DISKS. 3-16

PARTICLE ACCELERATION NEAR AN ACCRETING BLACK HOLE. 3-33

GEOPHYSICAL LOGGING IN LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST HOLE NO.2. 11-19

HYDROLOGIC TESTING GEOTHERMAL TEST HOLE NO.2. 11-24

PLANNING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 1. 11-41

ROCK MELTING HOLE PRODUCTION SYSTEMS FOR EXPLORATORY AND PRODUCTION GEOTHERMAL ENERGY WELLS. 11-47

TEMPERATURE MEASUREMENTS IN THE PRECAMBRIAN SECTION OF GEOTHERMAL TEST HOLE NO.2. 11-56

TESTING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 2. 11-57

TESTING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 3. 11-58

LIFETIME, SURFACE TENSION, AND IMPURITY EFFECTS IN ELECTRON HOLE CONDENSATION. 27-10

TIME DEPENDENT BEHAVIOR IN ELECTRON HOLE CONDENSATION. 27-18

LIFETIME, SURFACE TENSION, AND IMPURITY EFFECTS IN ELECTRON HOLE CONDENSATION. 27-9

HOLMIUM
ERBIUM -158 TO HOLMIUM -158 DECAY SCHEME AND Q-BETA VALUE. 25-68

HOLOGRAMS
COMPUTER HOLOGRAMS REVISITED. 21-20

SYNTHESIS OF HOLOGRAMS FOR COMPUTER GENERATED OUTPUT. 21-79

SYNTHESIS OF HOLOGRAMS FROM COMPUTER GENERATED OUTPUT. 21-80

HOLOGRAPHIC
FRACTIONAL FRINGE TIME DIFFERENTIAL HOLOGRAPHIC INTERFEROMETRY. 10-41

PULSED HYDROGEN FLUORIDE LASER HOLOGRAPHIC INTERFEROMETRY 20-123

HOLOGRAPHY
HOLOGRAPHY APPLIED TO STRUCTURAL COMPONENTS. 19-8

HOMOLOGOUS
LARGE STRAIN DEFORMATION OF POLYCRYSTALLINE METALS AT LOW HOMOLOGOUS TEMPERATURE. 23-32

HOMOLOGUES
SPOT TEST LIMIT OF DETECTION VALUES FOR CARCINOGENIC AROMATIC AMINES AND THEIR HOMOLOGUES AND ANALOGUES. 17-57

HOMOPOLAR
ROLE OF FAST DISCHARGING HOMOPOLAR MACHINES IN FUSION DEVICES. 10-116

ANALYSIS OF HOMOPOLAR GENERATORS AND SUPERCONDUCTING INDUCTIVE ENERGY STORAGE SYSTEMS AS POWER SUPPLIES FOR HIGH ENERGY, SPACE BASED LASERS. 20-7

HTGR
IODINE -131 RELEASE FROM AN HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) DURING THE LOFC (LOSS OF COOLANT) ACCIDENT. 17-30

NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL RODS. 26-12

IN-PLANT NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL MATERIALS. 26-9

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, JANUARY THROUGH MARCH 1975. 28-18

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, APRIL -JUNE 1975 28-19

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, JULY -SEPTEMBER 1975. 28-20

PROPOSAL FOR ANALYSIS OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) CORE RESPONSE TO SEISMIC INPUT. 28-31

QUARTERLY REPORT HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, OCTOBER THROUGH DECEMBER 1974. 28-34

HTR
EXTENDING THE TEMPERATURE RANGE OF THE HTR. 28-13

HUGONIOT
HUGONIOT EQUATION OF STATE OF THE LANTHANIDES. 4-29

HUGONIOT DATA FOR SEVERAL BENZENE RING LIQUIDS. 18-18

HUMAN
POPULATION ANALYSIS OF ARRESTED HUMAN DIPLOID FIBROBLASTS BY FLOW MICROFLUOROMETRY 5-116

REGULATION OF ADENYLATE CYCLASE ACTIVITY BY CELL SURFACE HYALURONATE IN HUMAN LIMB MESENCHYMAL CELLS IN VITRO. 5-126

SPATIAL DISTRIBUTION OF EFFECTS OF NEGATIVE PIONS ON CULTURED HUMAN CELLS. 5-136

WHAT WE HAVE LEARNED ABOUT PLUTONIUM FROM HUMAN DATA. 5-147

CESIUM -134 IN HUMAN AUTOPSY TISSUE. 5-32

CLASSIFICATION OF HUMAN LEUKOCYTES BY MULTIANGLE LASER LIGHT SCATTERING IN A FLOW SYSTEM. 5-41

HEAVY ION IRRADIATION OF HUMAN AND CHINESE HAMSTER CELLS IN VITRO. 5-74

INCIDENCE OF ANEUPLOIDY IN A HUMAN POPULATION. 5-80

HUMANS
MEASUREMENT OF PLUTONIUM IN HUMANS. 5-96

HYALURONATE
REGULATION OF ADENYLATE CYCLASE ACTIVITY BY CELL SURFACE HYALURONATE IN HUMAN LIMB MESENCHYMAL CELLS IN VITRO. 5-126

HYBRID
FAST MOLECULAR TRAJECTORY CALCULATIONS BY HYBRID COMPUTATION: A FEASIBILITY STUDY. 6-8

ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY. 10-1

POST-IMPLOSION ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY. 10-104

POST-IMPLOSION ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY. 10-105

PROSPECTS FOR CONVERTING THORIUM -232 TO URANIUM -233 IN A LINEAR THETA PINCH HYBRID REACTOR (LTPHR). 10-109

ENGINEERING DESIGN OF A LINEAR THETA PINCH HYBRID REACTOR (LTPHR). 10-31

FUSION - FISSION HYBRID. 10-43

HYBRID - KINETIC MODEL FOR HIGH BETA PLASMAS. 10-51

HYBRID MODEL STUDIES OF MAGNETIC FIELD DIFFUSION IN HIGH BETA PINCHES. 10-52

HYBRID SIMULATION OF SCREW PINCH IMPLOSIONS WITH IMPURITIES AND OF THETA PINCH IMPLOSIONS RESULTING IN REFLECTED ION BEAMS. 10-53

NUMERICAL SIMULATION OF THE LOWER HYBRID DRIFT INSTABILITY. 10-88

NUMERICAL SIMULATION OF THE LOWER HYBRID DRIFT INSTABILITY. 10-89

MODELING AND HYBRID SIMULATION OF SOLAR ENERGY SYSTEMS. 12-12

HYBRID COMPUTER SIMULATION OF TRANSMISSION LINE CIRCUITS. 21-39

HYBRID DIGITAL/OPTICAL SYSTEMS FOR NONLINEAR IMAGE RESTORATION. 21-40

BENCHMARK DOPPLER MEASUREMENTS USING A HYBRID STATIC/DYNAMIC HEATING TECHNIQUE. 28-3

HYBRIDS
CIRCULAR DICHROISM SPECTRA OF POLY D(AC)-D(GT)*, POLY R(AC)-R(GU)*, AND HYBRIDS POLY D(AC)-R(GU)* AND POLY R(AC)-D(GT)* IN THE PRESENCE OF ETHANOL. 5-40

HYDRATION
HYDRATION ENERGIES AND SPECIFIC INFLUENCE OF OXO COMPLEXES AND HIGH COORDINATION NUMBERS ON THE PREDICTED CHEMISTRY OF SUPERHEAVY ELEMENTS. 7-9

HYDRAULIC
DETERMINATION OF PERMEABILITY OF GRANITIC ROCKS IN GT-2 FROM HYDRAULIC FRACTURING DATA. 11-12

CRITICAL BOREHOLE PRESSURE FOR A VERTICAL HYDRAULIC CRACK IN THE PRESENCE OF TWO PRINCIPAL TOTAL STRESSES. 11-9

HYDRIDE
ANALYTICAL METHODS FOR LITHIUM HYDRIDE. 2-2

HYDROCHLORIDE
LASER DRIVEN SYNTHESIS OF BORON HYDROCHLORIDE FROM BORON CHLORIDE AND HYDROGEN. 20-69

HYDROCODE
PAD, A ONE DIMENSIONAL LAGRANGIAN HYDROCODE 18-35

HYDRODYNAMIC
HYDRODYNAMIC EFFECTS IN THE ATMOSPHERES OF VARIABLE STARS 3-20

DETONATION OF HIGH EXPLOSIVES IN LAGRANGIAN HYDRODYNAMIC CODES USING THE PROGRAMMED BURN TECHNIQUE 18-9

RELATIVISTIC HYDRODYNAMIC THEORY OF HEAVY ION COLLISIONS 25-195

TRANSPORT AND HYDRODYNAMIC ASPECTS OF MULTIPARTICLE PRODUCTION 25-228

HYDRODYNAMICAL
SINGULARITY FITTING IN HYDRODYNAMICAL CALCULATIONS 2. 21-74

PION PRODUCTION FROM A CLASSICAL SOURCE: TRANSPORT AND HYDRODYNAMICAL PROPERTIES. 25-171

HYDRODYNAMICS
IMPROVED, IMPLICIT RADIATION HYDRODYNAMICS 18-19

SHOCK HYDRODYNAMICS. 18-43

YOKIFER: A TWO DIMENSIONAL HYDRODYNAMICS AND RADIATION TRANSPORT PROGRAM. 18-56

HYDRODYNAMICS AND BURN OF OPTIMALLY IMPLODED DEUTERIUM - TRITIUM SPHERES. 20-51

NUCLEAR HYDRODYNAMICS 25-143

HYDROGEN
R-MATRIX THEORY FOR ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS 2. ELECTRON - HYDROGEN(2) SCATTERING IN THE STATIC EXCHANGE MODEL. 4-53

SELF CONSISTENT PHONON CALCULATIONS AND EQUATIONS OF STATE OF SOLID HYDROGEN AND DEUTERIUM 4-60

ABSTRACTION VERSUS EXCHANGE IN THE REACTION OF HYDROGEN WITH DEUTERIUM BROMIDE 6-1

MECHANISM AND TYPES OF EXPLOSIVE BEHAVIOR IN HYDROGEN - FLUORINE SYSTEMS. 6-11

PARADOX. THE THERMAL RATE COEFFICIENT FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION. 6-13

QUASICLASSICAL TRAJECTORY STUDY OF THE HYDROGEN(2) + FLUORINE(2) REACTIONS. 6-14

QUASICLASSICAL TRAJECTORY STUDY OF THE MOLECULAR BEAM KINETICS OF THE DEUTERIUM ATOM - HYDROGEN HALIDE EXCHANGE REACTION. 6-15

COMPARISON OF THE COMBINED PHASE SPACE TRAJECTORY AND QUASICLASSICAL TRAJECTORY METHODS IN THE STUDY OF REACTION DYANMICS. HYDROGEN + IODINE(2) AND HYDROGEN + BROMINE(2). 6-4

DEPENDENCE OF THE SECOND EXPLOSION LIMITS OF HYDROGEN - FLUORINE - OXYGEN -HYDROGEN FLUORIDE MIXTURES ON A HOT ATOM EFFECT. 6-5

FLUORINE - HYDROGEN EXPLOSION AND ITS POSSIBLE UTILIZATION IN LARGE CHEMICAL LASERS. 6-9

FUNDAMENTAL ASPECTS OF SYSTEMS FOR THE THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER. 7-8

OPERATING EXPERIENCE WITH A LIQUID HYDROGEN FUELED VEHICLE. 8-34

ALTERNATE FUELS FOR TRANSPORTATION. 2. HYDROGEN FOR THE AUTOMOBILE 12-1

STRUCTURE AND HINDERED MOTION OF BOKON (3) HYDROGEN(8) ANIONS IN SOLIDS: AN NMR (NUCLEAR MAGNETIC RESONANCE) STUDY. 14-12

PULSED HYDROGEN FLUORIDE LASER HOLOGRAPHIC INTERFEROMETRY. 20-123

PULSED HYDROGEN FLUORIDE LASER OSCILLATOR AMPLIFIER EXPERIMENTS. 20-124

CAN WE BEAT FLUORINE AND HYDROGEN FOR HYDROGEN FLUORIDE LASERS 20-14

CAN WE BEAT FLUORINE AND HYDROGEN FOR HYDROGEN FLUORIDE LASERS 20-14

TIME RESOLVED OUTPUT SPECTRUM FROM A HYDROGEN FLUORIDE LASER USING MIXTURES OF SULFUR HEXAFLUORIDE AND HYDROGEN IODIDE. 20-156

HYDROGEN FLUORIDE CHEMICAL LASER. 20-52

HYDROGEN ISOTOPE SEPARATION FROM WATER. 20-53

LASER DRIVEN SYNTHESIS OF BORON HYDROCHLORIDE FROM BORON CHLORIDE AND HYDROGEN. 20-69

LASER INDUCED CHEMILUMINESCENCE OF BORON TRICHLORIDE/HYDROGEN SULFIDE MIXTURES 20-75

MIXTURE STABILITY IN HIGH POWER PULSED HYDROGEN - FLUORINE CHEMICAL LASERS. 20-95

PROTOTYPE HIGH CURRENT, HIGH DUTY FACTOR NEGATIVE HYDROGEN ION SOURCE FOR LAMPF 22-44

TWO BODY PHOTODISINTEGRATION OF HELIUM -3 AND HYDROGEN -3 22-53

ANGULAR DISTRIBUTION OF POLARIZATION TRANSFER IN HYDROGEN -2(DEUTERON,PROTON) HYDROGEN -3 25-10

ANGULAR DISTRIBUTION OF POLARIZATION TRANSFER IN HYDROGEN -2(DEUTERON,PROTON) HYDROGEN -3. 25-10

APPROXIMATION OF MULTI-CENTRE INTEGRALS ARISING IN PROTON - HYDROGEN CHARGE EXCHANGE CALCULATIONS. 25-17

HYDROGEN -3 - HELIUM -3 BINDING ENERGY DIFFERENCE AND POSSIBLE CHARGE ASYMMETRY EFFECTS IN THE NUCLEON - NUCLEON FORCE. 25-95

ADSORPTION OF RADIOKRYPTON ON ACTIVATED CHARCOAL IN THE PRESENCE OF HYDROGEN 27-2

HIGH TEMPERATURE NUCLEAR REACTORS AS AN ENERGY SOURCE FOR HYDROGEN PRODUCTION 28-17

HYDROGEN AND FOOD FROM NUCLEAR HEAT AND MUNICIPAL WASTES. 30-32

HYDROGENOUS
EFFECTS OF ADDING HYDROGENOUS MATERIAL TO KIWI REACTORS. 30-21

HYDROLOGIC
HYDROLOGIC TESTING GEOTHERMAL TEST HOLE NO.2 11-24

HYDROLYSIS
COPRECIPITATION OF URANIUM AND PLUTONIUM OXALATES USING SODIUM FORMALDEHYDE SULFOXYLATE REDUCTION AND DIETHYL OXALATE HYDROLYSIS PRECIPITATION. 2-7

HYDROTHERMAL
MONZO-GRANITE ALTERATION IN A HYDROTHERMAL SYSTEM. 11-31

HYPERBOLIC
COMPARING CERTAIN CLASSES OF DIFFERENCE AND FINITE ELEMENT SCHEMES FOR A HYPERBOLIC PROBLEM. 21-17

ALTERNATING DIRECTION GALERKIN METHODS FOR PARABOLIC AND HYPERBOLIC PROBLEMS ON RECTANGULAR POLYGONS. 21-3

HYPERFINE
NEW HIGH PRECISION MEASUREMENT OF THE MUONIUM HYPERFINE STRUCTURE INTERVAL DELTA NU. 25-137

PRECISION MEASUREMENT OF 1S(1/2) MUONIUM HYPERFINE STRUCTURE INTERVAL DELTA NU. 2. RESULTS. 25-178

HYPERTRITON
MESON - THEORETIC POTENTIALS AND THE HYPERTRITON: A REPLY. 22-31

I-C
PLASMA EXPERIMENTS ON THE HIGH DENSITY SCYLLA I-C THETA PINCH. 10-101

INITIAL LASER PLASMA INTERACTION EXPERIMENTS IN THE SCYLLA I-C THETA PINCH. 10-60

LASER - PLASMA INTERACTIONS IN THE SCYLLA I-C EXPERIMENT: PRELIMINARY ANALYSIS. 10-68

LASER PLASMA INTERACTION IN THE SCYLLA I-C THETA PINCH. 10-69

IAEA
CONTROLLED FUSION RESEARCH: HIGHLIGHTS OF THE TOKYO IAEA CONFERENCE AND SUBSEQUENT DEVELOPMENTS 10-11

ICE
COMPRESSION AND BONDING OF ICE VII AND AN EMPIRICAL LINEAR EXPRESSION FOR THE ISOTHERMAL COMPRESSION OF SOLIDS. 4-11

ICED
LASL CALCULATIONS OF LOW ALTITUDE FIREBALLS USING THE ICED ALE METHOD. 18-21

THREE DIMENSIONAL MULTIBURST SIMULATION USING THE ICED ALE METHOD 18-50

IDEAL
SPECTRUM OF IDEAL MAGNETOHYDRODYNAMICS OF AXISYMMETRIC TOROIDAL SYSTEMS. 10-127

IGG2
TRANSFER OF MOUSE IGG2 PRODUCTION BY IGM BEARING SPLEEN CELLS SEPARATED BY A FLUORESCENCE ACTIVATED CELL SORTER. 5-141

IGM
TRANSFER OF MOUSE IGG2 PRODUCTION BY IGM BEARING SPLEEN CELLS SEPARATED BY A FLUORESCENCE ACTIVATED CELL SORTER. 5-141

KINETICS OF HEMOLYTIC PLAQUE FORMATION. 4. IGM PLAQUE INHIBITION. 5-89

IHX
MEASUREMENT OF FARADAY ROTATION IN IHX. 10-79

III-15
ASM80: A CDC 7600 MACRO CROSS ASSEMBLER FOR III-15 AND D.E.C. PDP-9 AND PDP-15 COMPUTERS. 21-9

IMAGE
IMAGE INTENSIFICATION AND VIDEO RECORDING SYSTEM FOR ASTRONOMICAL OBSERVATIONS. 3-22

COMPUTERIZED IMAGE ANALYSIS AT THE LOS ALAMOS SCIENTIFIC LABORATORY. 21-22

DIGITAL IMAGE PROCESSING. 21-29

FUTURE POTENTIALITIES OF IMAGE ANALYSIS. 21-35

HYBRID DIGITAL/OPTICAL SYSTEMS FOR NONLINEAR IMAGE RESTORATION. 21-40

IMAGES
SCAN AND DISPLAY CONSIDERATIONS IN PROCESSING IMAGES BY DIGITAL COMPUTER 21-71

IMAGING
MICRO-CHANNEL PLATE AS A PARALLEL BORE COLLIMATOR FOR SOFT X RAY IMAGING 19-14

IMBALANCES
IMBALANCES IN FEDERAL FUNDING OF ENERGY RESEARCH AND DEVELOPMENT. 12-10

IMBEDDING
INTRODUCTION TO INVARIANT IMBEDDING. 21-43

IMF
PROLONGED EARTHWARD FLOW OF MAGNETOTAIL PLASMA ASSOCIATED WITH STEADY SOUTHWARD IMF 1-20

IMMUNITY
NOISE IMMUNITY IN DIGITAL COMMUNICATION BY USE OF ORTHOGONAL SIGNAL CORRELATION AND WALSH FUNCTIONS. 19-15

IMMUNODIFFUSION
IMMUNODIFFUSION IN GELS CONTAINING ERYTHROCYTE ANTIGEN. 1. THEORY FOR DIFFUSION OF ANTISERUM FROM A CIRCULAR WELL. 5-76

IMP-6
FAST SOLAR ELECTRONS, INTERPLANETARY PLASMA AND KM WAVE TYPE III RADIO BURSTS OBSERVED FROM THE IMP-6 SPACECRAFT. 1-10

IMP-6 AND -8 SPACECRAFT POTENTIAL IN THE MAGNETOTAIL. 1-14

DISTRIBUTION OF PLASMA SHEET THINNING AND RECOVERY EVENTS IN THE MAGNETOTAIL SURVEYED BY THE IMP-6 SATELLITE. 1-3

IMP-8
INVESTIGATION OF SUBSTORM RELATED PLASMA SHEET THINNING WITH IMP-8. 1-15

IMPACT
IMPACT OF ELECTRONIC IDENTIFICATION AND DISEASE DETECTION ON THE ROLE OF THE VETERINARIAN. 5-77

PRELIMINARY REPORT ON LOCAL IMPACT MODEL. 12-15

SENSITIVITY OF X-0219 TO BULLET IMPACT. 15-24

TIME DENSITY STUDY OF WATER IN KIWI-B4 FUEL ELEMENTS WITH VARYING IMPACT VELOCITIES. 30-91

IMPACTS
SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE III: FSA (FUEL SPHERE ASSEMBLY) IMPACTS. 17-53

IMPEDANCE
OBSERVATION OF STEPS IN THE MICROWAVE IMPEDANCE OF SUPERCONDUCTING MICROBRIDGES. 8-33

ANALOG COMPUTER FOR CALCULATING THE SHUNT IMPEDANCE OF A RESONANT CAVITY 21-4

IMPLICATIONS
PLUTONIUM: HEALTH IMPLICATIONS FOR MAN. 1974. 2ND LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROCEEDINGS. 5-115

ENVIRONMENTAL AND TECHNOLOGICAL IMPLICATIONS OF A THETA PINCH FUSION POWER PLANT 10-33

IMPLICATIONS TO THE CTR COMMUNITY OF STANDARDIZATION IN NUCLEAR ANALYSIS CODES 10-54

CINDER CONE SEPARATION DISTANCES: IMPLICATIONS FOR THE DEPTH OF FORMATION OF GABBROIC XENOLITHS. 11-8

MEASUREMENT, ANALYSIS, AND IMPLICATIONS OF THE FISSION CROSS SECTIONS OF THE IMPORTANT FISSIONABLE ISOTOPES. 25-115

IMPLICATIONS OF PARITY VIOLATING EFFECTS IN STRANGENESS CONSERVING NONLEPTONIC PROCESSES 25-96

IMPLICIT
IMPROVED, IMPLICIT RADIATION HYDRODYNAMICS. 18-19

ENGINEERING APPLICATIONS OF ADI (ALTERNATING - DIRECT - IMPLICIT) METHODS TO PIECEWISE LINEAR MULTIDIMENSIONAL HEAT TRANSFER. 21-31

IMPLIED
IMPLIED TEMPERATURE DEPENDENCE OF THE GRUNEISEN PARAMETER. 4-30

IMPLODED
ELECTRICALLY IMPLODED CYLINDRICAL FUSION TARGETS. 20-34

HYDRODYNAMICS AND BURN OF OPTIMALLY IMPLODED DEUTERIUM - TRITIUM SPHERES. 20-51

IMPLOSION
RADIAL PLASMA STRUCTURE DURING A THETA PINCH IMPLOSION: FLUTE INSTABILITIES. 10-110

RESULTS FROM THE LASL IMPLOSION HEATING EXPERIMENT 10-114

IMPLOSION AND STAGING IN THETA PINCHES 10-55

IMPLOSION HEATING STUDIES IN THE SCYLLA 1B, IMPLOSION HEATING, AND STAGED THETA PINCH EXPERIMENTS 10-56

IMPLOSION MEASUREMENTS IN A HIGH VOLTAGE, LARGE DIAMETER, MEDIUM DENSITY THETA PINCH 10-57

NUMERICAL MODELING OF MAGNETIC IMPLOSION HEATING AND FIELD DIFFUSION IN PINCHES. 10-87

CONTACT ELECTRICAL METHOD OF STUDYING IMPLOSION. 15-2

IMPLOSION, STABILITY, AND BURN OF MULTISHELL FUSION TARGETS 20-54

LASER DRIVEN IMPLOSION OF SPHERICAL DEUTERIUM - TRITIUM TARGETS TO THERMONUCLEAR BURN CONDITIONS. 20-68

THEORY OF IMPLOSION. 30-89

IMPLOSIONS
HYBRID SIMULATION OF SCREW PINCH IMPLOSIONS WITH IMPURITIES AND OF THETA PINCH IMPLOSIONS RESULTING IN REFLECTED ION BEAMS. 10-53

HYBRID SIMULATION OF SCREW PINCH IMPLOSIONS WITH IMPURITIES AND OF THETA PINCH IMPLOSIONS RESULTING IN REFLECTED ION BEAMS. 10-53

USE OF HIGH ENERGY, SHORT PULSE EXPLOSIVE GENERATORS TO DRIVE ELECTROMAGNETIC IMPLOSIONS. 15-29

PREHEAT EFFECTS ON MICROBALLOON LASER FUSION IMPLOSIONS. 20-110

PREHEAT EFFECTS ON MICROBALLOON LASER FUSION IMPLOSIONS. 20-120

STRUCTURE AND SCALING LAWS OF LASER DRIVEN ABLATIVE IMPLOSIONS. 20-144

CARBON DIOXIDE LASER DEVELOPMENT AND ASYMMETRY IN LASER DRIVEN IMPLOSIONS. 20-15

IMPROVEMENT
IMPROVEMENT IN OXIDATION RESISTANCE OF THE LEADING EDGE THERMAL PROTECTION FOR A SPACE SHUTTLE. 23-30

IMPURITIES
HYBRID SIMULATION OF SCREW PINCH IMPLOSIONS WITH IMPURITIES AND OF THETA PINCH IMPLOSIONS RESULTING IN REFLECTED ION BEAMS. 10-53

ON THE DIFFUSION OF DIVALENT IMPURITIES IN ALUMINUM. 23-43

IMPURITY
LIFETIME, SURFACE TENSION, AND IMPURITY EFFECTS IN ELECTRON HOLE CONDENSATION. 27-10

LIFETIME, SURFACE TENSION, AND IMPURITY EFFECTS IN ELECTRON HOLE CONDENSATION. 27-9

IN-PLANT
NONDESTRUCTIVE ASSAY TECHNOLOGY AND IN-PLANT DYNAMIC MATERIALS CONTROL. 26-15

NONDESTRUCTIVE ASSAY TECHNOLOGY AND IN-PLANT MATERIALS CONTROL: DYMAC. 26-16

IN-PLANT NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL MATERIALS 26-9

INBREEDING
SOME OBSERVATIONS ON THE COMPARATIVE EFFECTS OF INBREEDING AND WHOLE BODY X RAY EXPOSURE TO SEVENTY GENERATIONS OF MICE. 5-134

INCIDENCE
INCIDENCE OF ANEUPLOIDY IN A HUMAN POPULATION. 5-80

INCIDENT
TWO DIMENSIONAL STABILITY OF AN ELECTROMAGNETIC WAVE OBLIQUELY INCIDENT ON A NONUNIFORM PLASMA 10-153

CALCULATED NEUTRON SPECTRUM FROM 800 MEV PROTONS INCIDENT ON A COPPER BEAM STOP 22-6

RADIATIVE CAPTURE GAMMA RAYS FROM THE REACTION LEAD -208 (NEUTRON,GAMMA) LEAD -209 FOR 11 MEV INCIDENT NEUTRONS. 25-192

DIFFERENTIAL CROSS SECTIONS FOR GAMMA RAYS FROM IRON FOR INCIDENT NEUTRONS OF 8.5, 10.0, 12.2, AND 14.2 MEV. 25-49

INCLUSION
CHARGE ASYMMETRY EFFECTS AND THE TRINUCLEON BINDING ENERGY. 2. INCLUSION OF THE TENSOR FORCE AND SINGLET REPULSION 25-27

INCLUSIONS
PETROLOGY OF DEEP SEATED CUMULATE INCLUSIONS, WEST POTRILLO MOUNTAINS, NEW MEXICO 11-39

INCONEL
EFFECTS OF SOLUTION AND INTERMEDIATE HEAT TREATMENTS ON THE NOTCH - RUPTURE BEHAVIOR OF INCONEL 718 23-17

USE OF INTERMEDIATE HEAT TREATMENTS FOR THE RESTORATION OF THE NOTCH RUPTURE PROPERTIES OF INCONEL 718. 23-61

INCONSISTENT
CONSISTENCY AMONG DIFFERENTIAL NUCLEAR DATA AND INTEGRAL OBSERVATIONS: THE ALVIN CODE FOR DATA ADJUSTMENT, FOR SENSITIVITY CALCULATIONS, AND FOR IDENTIFICATION OF INCONSISTENT DATA. 25-36

INCORPORATING
50 MEV POLARIZED NEUTRON FACILITY INCORPORATING A HIGH PRESSURE TRITIUM GAS TARGET. 25-6

INCREASES
RNA SYNTHESIS IN CHINESE HAMSTER CELLS 3 NON-COORDINATE INCREASES DURING INTERPHASE IN SYNTHESIS RATES FOR INFORMOSOMAL, POLYSOMAL, AND HETEROGENEOUS NUCLEAR RNAS. 5-129

INCREASING
INCREASING THE RELEVANCE OF DATA PRESENTED TO THE OPERATORS IN AN ACCELERATOR CONTROL SYSTEM. 22-19

INDEPENDENCE
CHARGE INDEPENDENCE IN THE MASS 6 SYSTEM AS OBSERVED IN THE LITHIUM -6 (TRITON, HELIUM -3)HELIUM -6(0,0) AND LITHIUM -6 (TRITON,TRITON') LITHIUM -6 (3.56) REACTIONS. 25-28

INDEPENDENT
INDEPENDENT FISSION YIELDS OF RUBIDIUM AND CESIUM FROM THERMAL NEUTRON INDUCED FISSION OF PLUTONIUM -239. 16-6

INDEPENDENTLY
DESIGN STUDIES OF HEAVY ION LINEAR ACCELERATORS CONSTRUCTED OF INDEPENDENTLY PHASED SPIRAL RESONATORS. 27-2

INDEX
LOS ALAMOS BUILDING COST INDEX. 13-10

EFFECT OF REFRACTIVE INDEX NONLINEARITY ON THE OPTICAL QUALITY OF HIGH POWER LASER BEAMS. 20-29

INTERFEROMETRIC MEASUREMENTS OF THE NONLINEAR REFRACTIVE INDEX COEFFICIENT RELATIVE TO CARBON DISULFIDE IN LASER SYSTEM RELATED MATERIALS. 20-57

INDICATIONS
INDICATIONS OF STRONGLY FLUX LIMITED ELECTRON THERMAL CONDUCTION IN LASER TARGET EXPERIMENTS. 20-55

INDUCED
PHOTO INDUCED DNA PROTEIN ADDUCTS IN CHINESE HAMSTER OVARY CELL CHROMATIN 5-110

RADIOACTIVITY INDUCED IN A THETA PINCH FUSION REACTOR 10-111

TRANSIENT FLOW AND EXPANSION OF A PINCH DISCHARGE PLASMA IN SELF INDUCED MAGNETIC FIELDS. 10-152

DISTORTION AND NOISE INDUCED DC OFFSET IN OPERATIONAL AMPLIFIERS. 13-3

INDUCED PARAMAGNETISM IN URANIUM ALLOYS: A BORON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY OF ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND YTTRIUM TETRABORIDE. 14-8

NUCLEAR CHARGE DISTRIBUTION IN FISSION SPECTRUM NEUTRON INDUCED FISSION. FRACTIONAL CUMULATIVE YIELDS OF RARE GAS NUCLIDES FROM FISSION OF URANIUM -235 AND URANIUM -238. 16-10

INDEPENDENT FISSION YIELDS OF RUBIDIUM AND CESIUM FROM THERMAL NEUTRON INDUCED FISSION OF PLUTONIUM -239. 16-6

MONOCHROMATIC PHOTON INDUCED THORIUM -232 PHOTONUCLEAR REACTIONS. 16-9

PARTIAL WAVE EXPANSION OF THE INDUCED COLLISION KERNEL. 18-36

ELECTRIC FIELD INDUCED HARMONIC GENERATION AS A PROBE OF THE FOCAL REGION OF A LASER BEAM. 20-32

EQUAL AREA PROPERTY OF NARROW RESONANCES INDUCED IN COUPLED DOPPLER BROADENED SYSTEMS BY INTENSE LASER RADIATION 20-40

ION WAVE TURBULENCE INDUCED BY AN EXPANDING MULTI-COMPONENT PLASMA. 20-61

LASER INDUCED CHEMILUMINESCENCE OF BORON TRICHLORIDE/HYDROGEN SULFIDE MIXTURES. 20-75

LASER INDUCED INSTABILITIES AND ANOMALOUS ABSORPTION IN DENSE PLASMAS. 20-76

THEORY OF IRRADIATION INDUCED GROWTH OF FATIGUE CRACKS 23-57

MORE 14 MEV. NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS 25-122

EVALUATION OF GAMMA RAY PRODUCTION CROSS SECTIONS FROM NEUTRON INDUCED REACTIONS ON TUNGSTEN. 25-70

FAST PION INDUCED PROCESSES IN COMPLEX NUCLEI CROSS SECTION AND ALPHA REMOVAL. 25-79

ACTIVATION STUDIES OF PION INDUCED REACTIONS ON CARBON, NITROGEN, OXYGEN, FLUORINE, ALUMINUM AND COPPER 25-8

FOURTEEN MEV. NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS FOR SEVERAL ELEMENTS. 25-84

INDUCTANCES
REVERSIBLE ENERGY TRANSFER BETWEEN INDUCTANCES. 8-41

INDUCTION
PILOT MODEL. INDUCTION HEATED ROTATING FLUIDIZED BED. 30-61

INDUCTIVE
DESIGN OF A FORCE FREE INDUCTIVE STORAGE COIL. 8-11

ANALYSIS OF HOMOPOLAR GENERATORS AND SUPERCONDUCTING INDUCTIVE ENERGY STORAGE SYSTEMS AS POWER SUPPLIES FOR HIGH ENERGY, SPACE BASED LASERS. 20-7

INDUSTRIAL
RADIOLOGICAL HEALTH IN INDUSTRIAL MEDICAL PRACTICE. 5-121

INDUSTRY
AEROSPACE INSTRUMENTATION. 1973. 19TH INTERNATIONAL SYMPOSIUM, LAS VEGAS, NV. PROCEEDINGS, INSTRUMENTATION IN THE AEROSPACE INDUSTRY, V.19. 19-1

INSTRUMENTATION. 1974. 20TH INTERNATIONAL SYMPOSIUM, ALBUQUERQUE, NM. PROCEEDINGS, INSTRUMENTATION IN THE AEROSPACE INDUSTRY, V.20, ADVANCES IN TEST MEASUREMENT, V.11. 19-9

INELASTIC
COHERENT INELASTIC ELECTRON SCATTERING IN LEED (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF ARSENIC(0001). 9-5

INELASTIC PION - NUCLEUS SCATTERING IN DWIA. 22-20

INELASTIC PROTON SCATTERING AS A TEST OF SURFACE DELTA WAVE FUNCTIONS. 25-98

INELASTIC SCATTERING CROSS SECTIONS OF LEAD AND URANIUM FOR 14 MEV NEUTRONS 25-99

INERTIAL
SUPERCONDUCTING MAGNETIC AND INERTIAL ENERGY PULSED POWER SYSTEMS. 8-45

INFECTED
EVALUATION OF SOLUBLE ANTIGEN FLUORESCENT ANTIBODY TEST FOR ANTIBODIES TO TRICHINELLA SPIRALIS IN EXPERIMENTALLY INFECTED SWINE. 5-61

INFERENCE
MONTE CARLO METHOD FOR PROBLEMS OF HIERARCHICAL INFERENCE 21-49

INFINITE
RELATIVISTIC SECOND ORDER ENERGY IN INFINITE FERMION MATTER 25-197

INFLUENCE
KINETICS OF HEMOLYTIC PLAQUE FORMATION. 5. THE INFLUENCE OF GEOMETRY ON PLAQUE GROWTH. 5-90

HYDRATION ENERGIES AND SPECIFIC INFLUENCE OF OXO COMPLEXES AND HIGH COORDINATION NUMBERS ON THE PREDICTED CHEMISTRY OF SUPERHEAVY ELEMENTS 7-9

INFLUENCE OF SELF FIELDS ON THE FILAMENTATION INSTABILITY IN RELATIVISTIC BEAM PLASMA SYSTEMS. 10-58

INFLUENCE OF SELF FIELDS ON THE VLASOV EQUILIBRIUM AND STABILITY PROPERTIES OF RELATIVISTIC ELECTRON BEAM - PLASMA SYSTEMS 10-59

INFLUENCE OF METALS ON THE THERMAL DECOMPOSITION OF S TRIAMINOTRINITROBENZENE (TATB) 15-15

INFLUENCE OF STANDING WAVE FIELDS ON THE LASER DAMAGE RESISTANCE OF DIELECTRIC FILMS. 20-56

INFORMATION
CURRENT STATUS OF INFORMATION OBTAINED FROM PLUTONIUM CONTAMINATED PEOPLE. 5-48

INFORMOSOMAL
RNA SYNTHESIS IN CHINESE HAMSTER CELLS. 4. NON-COORDINATE INCREASES DURING INTERPHASE IN SYNTHESIS RATES FOR INFORMOSOMAL, POLYSOMAL, AND HETEROGENEOUS NUCLEAR RNAS 5-129

INFORMOSOMES
APPEARANCE OF CYTOPLASMIC INFORMOSOMES IN CULTURED CHINESE HAMSTER CELLS IN THE ABSENCE OF PROTEIN SYNTHESIS 5-4

INFRARED
QUANTUM LIMITED NEAR INFRARED VIDICON CAMERA SYSTEM. 19-17

PULSED INFRARED DIFFERENCE FREQUENCY GENERATION IN CADMIUM GERMANIUM ARSENIC(2) 20-125

INGESTION
LICHEN FORAGE INGESTION RATES OF FREE ROAMING CARIBOU ESTIMATED WITH FALLOUT CESIUM -137 30-42

INGREDIENT
ZIRCONIUM CARBIDE, A KEY INGREDIENT FOR HIGH TEMPERATURE NUCLEAR FUELS. 23-65

INHIBITION
KINETICS OF HEMOLYTIC PLAQUE FORMATION. 2. INHIBITION OF PLAQUES BY HAPTEN 5-87

KINETICS OF HEMOLYTIC PLAQUE FORMATION. 3. INHIBITION OF PLAQUES BY ANTIGEN. 5-88

KINETICS OF HEMOLYTIC PLAQUE FORMATION. 4. IGM PLAQUE INHIBITION 5-89

INHIBITS
EVIDENCE THAT X IRRADIATION INHIBITS DNA REPLICON INITIATION IN CHINESE HAMSTER CELLS. 5-62

INHOMOGENEOUS
SORPTION IN INHOMOGENEOUS SLABS. 4-62

FLUTE INSTABILITIES IN TWO DIMENSIONAL SIMULATIONS OF STRONGLY INHOMOGENEOUS THETA PINCH PLASMAS. 10-40

ON THE SPECTRUM OF THE INHOMOGENEOUS VLASOV EQUATION. 10-92

ELECTROMAGNETIC SCATTERING INSTABILITIES IN WEAKLY INHOMOGENEOUS UNDERDENSE PLASMA. 20-35

INITIAL
INITIAL COMPARATIVE RESPONSE OF EXPERIMENTAL TUMORS TO PEAK PIONS AND X RAYS. 5-81

SYSTEM FOR STUDYING THE INITIAL STAGES OF GAS - METAL REACTIONS. 7-22

INITIAL LASER PLASMA INTERACTION EXPERIMENTS IN THE SCYLLA I-C THETA PINCH. 10-60

INITIAL VALUE PROBLEM IN RELATIVISTIC PLASMA. 10-61

CONVERGENCE ESTIMATES FOR GALERKIN METHODS FOR VARIABLE COEFFICIENT INITIAL VALUE PROBLEMS. 21-27

SPLINE-GALERKIN METHODS FOR INITIAL VALUE PROBLEMS WITH VARIABLE COEFFICIENTS. 21-75

INITIATED
EXPLODING LINER INITIATED DENSE Z PINCH. 10-37

LASER INITIATED KRYTRON SWITCHED BLUMLEIN STRUCTURE FOR PULSE SELECTION. 20-77

INITIATION
EVIDENCE THAT X IRRADIATION INHIBITS DNA REPLICON INITIATION IN CHINESE HAMSTER CELLS. 5-62

PLANE SHOCK INITIATION OF DETONATION: COMPUTER SIMULATION OF GAS GUN EXPERIMENT 15-20

SHOCK COMPRESSION AND INITIATION OF POROUS PETN 15-25

INJECTED
ENERGY SPECTRUM OF INJECTED FUSSILE IONS IN TWO COMPONENT FUSION SYSTEMS. 10-29

INJECTION
L = 6.6 OOSIK BARIUM PLASMA INJECTION EXPERIMENT AND MAGNETIC STORM OF MARCH 7, 1972. 1-16

L = 6.7 QUIET TIME BARIUM SHAPED CHARGE INJECTION EXPERIMENT CHACHALACA. 1-17

BEAM EMITTANCE GROWTH IN A PROTON STORAGE RING EMPLOYING CHARGE EXCHANGE INJECTION. 22-4

INJECTIONS
TWO BARIUM PLASMA INJECTIONS INTO THE NORTHERN MAGNETOSPHERIC CLEFT. 1-30

INJECTOR
PERFORMANCE OF THE LAMPF H MINUS INJECTOR. 22-39

INJURY
RECOVERY RATE AND RESIDUAL INJURY IN MONKEYS EXPOSED TO LARGE DOSES OF RADIATION BY FRACTIONATION. 5-125

INVESTIGATION OF THE TWO COMPONENT RADIATION INJURY CONCEPT USING EQUIVALENT RESIDUAL DOSE FACTORS 5-83

INORGANIC
MASS SPECTRAL INTENSITIES OF INORGANIC FLUORINE CONTAINING COMPOUNDS. 6-10

INPUT
PROPOSAL FOR ANALYSIS OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) CORE RESPONSE TO SEISMIC INPUT 28-31

INSERTION
CARBON DISULFIDE INSERTION REACTIONS WITH COPPER(I) MERCAPTIDE COMPLEXES. 7-1

INSPECTION
MACHINING AND INSPECTION PROCEDURES USED AT LOS ALAMOS SCIENTIFIC LABORATORY FOR FUEL ELEMENTS OF THE KIWI B4 SERIES. 30-45

INSTABILITIES
HEAT FLUX INSTABILITIES IN THE SOLAR WIND. 1-12

PROTON TEMPERATURE ANISOTROPY INSTABILITIES 1-21

ELECTROMAGNETIC CURRENT INSTABILITIES. 1-4

ELECTROMAGNETIC ION BEAM INSTABILITIES IN THE SOLAR WIND 1-5

ELECTRON HEAT FLUX INSTABILITIES IN THE SOLAR WIND 1-6

CONSEQUENCES OF COUPLING COEFFICIENT SATURATION ON THE NONLINEAR BEHAVIOR OF DECAY INSTABILITIES 10-10

RADIAL PLASMA STRUCTURE DURING A THETA PINCH IMPLOSION: FLUTE INSTABILITIES 10-110

SPECTRAL OBSERVATION OF ELECTROMAGNETIC WAVE DECAY DUE TO THE OTS AND DECAY PARAMETRIC INSTABILITIES. 10-126

COUPLING COEFFICIENT SATURATION IN THE NONLINEAR THEORY OF PARAMETRIC INSTABILITIES. 10-14

CURRENT DRIVEN INSTABILITIES IN THE PRESENCE OF HEAT CONDUCTION. 10-16

CANONICAL MOMENTA AND NUMERICAL INSTABILITIES IN PARTICLE CODES. 10-4

FLUTE INSTABILITIES IN TWO DIMENSIONAL SIMULATIONS OF STRONGLY INHOMOGENEOUS THETA PINCH PLASMAS. 10-40

ION COUPLING, ELECTRON HEATING, AND MAGNETIC TURBULENCE FROM PLASMA INSTABILITIES. 10-63

KINETIC NONLOCAL ANALYSIS OF CROSS FIELD INSTABILITIES IN THETA PINCH PLASMAS. 10-67

NONLOCAL ANALYSIS OF CROSS FIELD INSTABILITIES IN THETA PINCHES. 10-85

ELECTROMAGNETIC SCATTERING INSTABILITIES IN WEAKLY INHOMOGENEOUS UNDERDENSE PLASMA. 20-35

LASER INDUCED INSTABILITIES AND ANOMALOUS ABSORPTION IN DENSE PLASMAS. 20-76

INSTABILITY
ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY 10-1

POST-IMPLOSION ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY 10-104

POST-IMPLOSION ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY. 10-105

ELECTROMAGNETIC ION CYCLOTRON INSTABILITY DRIVEN BY ION ENERGY ANISOTROPY IN HIGH BETA PLASMAS. 10-25

INFLUENCE OF SELF FIELDS ON THE FILAMENTATION INSTABILITY IN RELATIVISTIC BEAM PLASMA SYSTEMS. 10-58

NUMERICAL SIMULATION OF THE LOWER HYBRID DRIFT INSTABILITY 10-68

NUMERICAL SIMULATION OF THE LOWER HYBRID DRIFT INSTABILITY 10-89

SIMULATION OF THE TWO STREAM INSTABILITY WITH FOUR NUMERICAL MODELS 18-45

COLLECTIVE ION ACCELERATION VIA THE TWO STREAM INSTABILITY 20-18

ION ACCELERATION BY THE RELATIVISTIC TWO STREAM INSTABILITY. 20-59

INSTANT
INSTANT SPECTROSCOPY IN THE VISIBLE, ULTRAVIOLET, AND VACUUM ULTRAVIOLET WITH POLAROID FILM 2-15

INSTRUMENT
FLOW SYSTEM MULTIANGLE LIGHT SCATTERING INSTRUMENT FOR BIOLOGICAL CELL CHARACTERIZATION. 5-66

FLOW SYSTEM MULTIANGLE LIGHT SCATTERING INSTRUMENT FOR CELL CHARACTERIZATION. 5-67

INSTRUMENTATION
CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES 1 AIRBORNE INSTRUMENTATION AND RESULTS. 3-10

AEROSPACE INSTRUMENTATION 1973 19TH INTERNATIONAL SYMPOSIUM, LAS VEGAS, NV PROCEEDINGS, INSTRUMENTATION IN THE AEROSPACE INDUSTRY, V.19 19-1

DEVELOPMENTS IN SEARCH AND SURVEY INSTRUMENTATION 19-5

INSTRUMENTATION 1974 20TH INTERNATIONAL SYMPOSIUM, ALBUQUERQUE, NM PROCEEDINGS, INSTRUMENTATION IN THE AEROSPACE INDUSTRY, V.20, ADVANCES IN TEST MEASUREMENT, V.11 19-9

INSTRUMENTATION OPERATING EXPERIENCE ON LAMPF MAIN BEAM LINES. 22-21

OPERATING EXPERIENCE WITH LAMPF MAIN BEAM LINES INSTRUMENTATION AND CONTROL SYSTEM 22-36

AUTOMATED NONDESTRUCTIVE ASSAY INSTRUMENTATION FOR NUCLEAR MATERIALS SAFEGUARDS. 26-1

INSTRUMENTATION TECHNIQUES FOR NDA (NONDESTRUCTIVE ANALYSIS) OF FISSILE MATERIAL 26-10

URBAN MICROMETEOROLOGY AND INSTRUMENTATION. 30-94

INSTRUMENTS
ENERGY DEPENDENCE OF FOUR NEUTRON REMMETER INSTRUMENTS. 17-16

INSULATING
EVALUATION OF PRE-IMPREGNATED RESIN-GLASS SYSTEMS FOR INSULATING SUPERCONDUCTING MAGNETS 8-16

ONSET CRITERIA FOR INSULATING ELECTRONIC TRANSITIONS IN THREE DIMENSIONAL SYSTEMS. 27-12

INSULATOR
FORMAL DERIVATION OF EFFECTIVE SPIN HAMILTONIANS FOR MACROSCOPIC MAGNETIC INSULATOR SYSTEMS. 4-24

INTEGER
GREATEST INTEGER THEOREM FOR FIBONACCI SPACES. 21-38

INTEGERS
ALGORITHMS TO REVEAL THE REPRESENTATION OF CHARACTERS, INTEGERS AND FLOATING POINT NUMBERS. 21-2

INTEGRAL
NUMERICAL METHODS FOR SOLUTION OF THE INTEGRAL EQUATIONS OF MULTI-DIMENSIONAL RADIATION TRANSPORT. 18-31

NUMERICAL COMPARISON OF INTEGRAL EQUATIONS OF THE FIRST AND SECOND KIND FOR CONFORMAL MAPPING. 21-54

INTEGRAL RELATION FOR THE ASYMPTOTIC NORMALIZATION OF THE TRITON. 25-100

CONSISTENCY AMONG DIFFERENTIAL NUCLEAR DATA AND INTEGRAL OBSERVATIONS: THE ALVIN CODE FOR DATA ADJUSTMENT, FOR SENSITIVITY CALCULATIONS, AND FOR IDENTIFICATION OF INCONSISTENT DATA. 25-36

INTEGRAL NEUTRON AND GAMMA DOSE MEASUREMENTS ON KIWI-A THREE. 30-33

INTEGRALS
APPROXIMATION OF MULTI-CENTRE INTEGRALS ARISING IN PROTON - HYDROGEN CHARGE EXCHANGE CALCULATIONS. 25-17

REDUCTION OF SINGULAR COLLISION INTEGRALS IN PERTURBATION THEORY. 27-14

INTEGRATED
INTEGRATED SOLAR ENERGY COLLECTOR FINAL SUMMARY REPORT. 12-11

PROGRESS REPORT. RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES FOR THE PERIOD JULY 1 TO SEPTEMBER 30, 1974. 12-16

RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES. 12-17

STRUCTURALLY INTEGRATED STEEL SOLAR COLLECTOR DEVELOPMENT. 12-21

INTEGRATING
INTEGRATING ECLIPSE OPTICS INTO THE AEC AIR FORCE FLYING LABORATORY. 19-10

INTEGRATOR
DRIFT COMPENSATING INTEGRATOR FOR MEASUREMENT OF TRANSIENT ATOMIC ABSORPTION SIGNALS. 2-13

INTENSE
DEUTERIUM FLOW LOOP FOR A SUPERSONIC GAS TARGET INTENSE NEUTRON SOURCE. 10-20

ELECTRON HEATING AND LANDAU DAMPING IN INTENSE LOCALIZED ELECTRIC FIELDS. 10-26

HOT ELECTRON PRODUCTION, ANOMALOUS ABSORPTION AND EFFECT OF INTENSE ELECTROMAGNETIC FIELDS ON INVERSE BREMSSTRAHLUNG ABSORPTION NEAR THE ELECTRON PLASMA FREQUENCY 10-50

INTENSE NEUTRON SOURCE FACILITY FOR THE FUSION ENERGY PROGRAM. 10-62

NUMERICAL STUDIES OF THE INTERPLAY BETWEEN SELF PHASE MODULATION AND DISPERSION FOR INTENSE PLANE WAVE LASER PULSES. 20-105

EQUAL AREA PROPERTY OF NARROW RESONANCES INDUCED IN COUPLED DOPPLER BROADENED SYSTEMS BY INTENSE LASER RADIATION. 20-40

INTENSIFICATION
IMAGE INTENSIFICATION AND VIDEO RECORDING SYSTEM FOR ASTRONOMICAL OBSERVATIONS. 3-22

INTENSITIES
ABSOLUTE INTENSITIES OF THE OUTER CORONA FROM THE JUNE 30, 1973 TOTAL SOLAR ECLIPSE. 3-1

MASS SPECTRAL INTENSITIES OF INORGANIC FLUORINE CONTAINING COMPOUNDS. 6-10

INTENSITY
VERY HIGH INTENSITY REACTION CHAMBER DESIGN. 20-163

BEAM INTENSITY MONITORING FOR THE EXTERNAL PROTON BEAM AT LAMPF. 22-5

TESTING AND CALIBRATION OF A FARADAY CUP AND OTHER INTENSITY MONITORS FOR THE EXTERNAL PROTON BEAM AT LAMPF. 22-52

INTERACTING
SELF INTERACTING, BOSON, QUANTUM, FIELD THEORY AND THE THERMODYNAMIC LIMIT IN D DIMENSIONS. 21-72

SEPARABLE SOLUTIONS FOR DIRECTLY INTERACTING PARTICLE SYSTEMS 25-204

INTERACTION
CALCULATION OF SNR (SUPERNOVA REMNANT) INTERACTION. 3-6

CONFIGURATION INTERACTION STUDIES OF OZONE AND OZONE POSITIVE IONS. GROUND AND EXCITED STATES. 4-12

DISSOCIATIVE EXCITATION CHANNELS IN THE INTERACTION OF ARGON(3-P-0,2) AND HELIUM (2-3 S) METASTABLE ATOMS WITH METHANE, ETHYLENE, ACETYLENE, AND BENZENE 6-6

SUPERSONIC FLOW RESULTING FROM THE INTERACTION OF A HIGH FREQUENCY CAPACITOR OR ELECTROMAGNETIC FIELD WITH AN EXPANDING PLASMA. 10-141

INITIAL LASER PLASMA INTERACTION EXPERIMENTS IN THE SCYLLA I-C THETA PINCH. 10-60

LASER PLASMA INTERACTION IN THE SCYLLA I-C THETA PINCH. 10-69

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES OCTOBER 1 - DECEMBER 31, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-20

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, APRIL 1 - JUNE 30, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-21

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JANUARY 1 - MARCH 31, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-22

PROGRESS REPORT. ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JULY 1 THROUGH SEPTEMBER 30, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-45

DIFFUSION OF A PASSIVE SCALAR AT LARGE PRANDTL NUMBER ACCORDING TO THE ABRIDGED LAGRANGIAN INTERACTION THEORY. 18-10

PLASMA HEATING BY RELATIVISTIC ELECTRON BEAMS. PART 2. RETURN CURRENT INTERACTION. 20-117

INTERACTION NOTES. (NOS.197, 198, 199, 200). 21-41

FRAGMENT PRODUCTION IN THE INTERACTION OF 800 MEV PROTONS WITH URANIUM. 22-16

INTERACTION BETWEEN CESIUM AND GRAPHITE FOR USE IN THE STUDY OF SURFACE PHENOMENA. 23-31

CHARACTERISTICS OF LOW Z FRAGMENTS PRODUCED IN THE INTERACTION OF 800 MEV PROTONS WITH URANIUM. 25-25

EFFECTIVE TWO BODY INTERACTION IN SIMPLE NUCLEAR SPECTRA. 25-53

INTERACTIONS
INTERACTIONS OF SMALL MOLECULES WITH COPPER(I) PHOSPHINE COMPLEXES. 9-12

INTERACTIONS OF SULFUR CONTAINING SMALL MOLECULES WITH ORGANOPHOSPHINE COPPER(I) COMPLEXES. 9-13

LASER - PLASMA INTERACTIONS IN THE SCYLLA I-C EXPERIMENT: PRELIMINARY ANALYSIS. 10-68

LABORATORY AND NUMERICAL STUDIES OF WATER - GRANITE INTERACTIONS AT ELEVATED TEMPERATURE AND PRESSURE. 11-25

SOME OBSERVATIONS OF LOCAL WIND INTERACTIONS IN COMPLEX TERRAIN 11-55

DEBRIS - AIR INTERACTIONS AND THEIR EFFECTS ON RADAR CLUTTER. 18-7

RECENT DEVELOPMENTS IN UNDERSTANDING THE PLASMA PHYSICS OF LASER TARGET INTERACTIONS. 20-130

LOW ENERGY PION - NUCLEON AND PION -DEUTERON INTERACTIONS. 25-105

PARITY VIOLATING ASYMMETRY IN NEUTRON PHOTO CAPTURE BY PROTONS AND THE ISOSPIN STRUCTURE OF THE STRANGENESS CONSERVING NONLEPTONIC WEAK INTERACTIONS. 25-155

SYSTEMATICS OF PION AND PROTON INTERACTIONS WITH NICKEL NUCLIDES 25-214

INTERACTIVE
ALLCAL: AN INTERACTIVE BASIC PROGRAM FOR SPECTROCHEMICAL CALCULATIONS. 2-1

INTERACTIVE GRAPHICS SYSTEM FOR MECHANICAL DRAFTING AND DESIGN. 21-42

INTERFACE
DIGITAL INTERFACE FOR FIELD REGULATED MAGNETS. 21-30

FTRCOL: A COMPUTER CODE TO GROUP COLLAPSE FTR FILES AND OUTPUT STANDARD CCCC INTERFACE FILES. 21-34

INTERFEROMETER
PROPER CALCULATION OF THE FRACTIONAL ORDER NUMBER AT THE CENTER OF A FABRY-PEROT INTERFEROMETER FRINGE SYSTEM. 19-16

INTERFEROMETRIC
INTERFEROMETRIC MEASUREMENTS OF THE NONLINEAR REFRACTIVE INDEX COEFFICIENT RELATIVE TO CARBON DISULFIDE IN LASER SYSTEM RELATED MATERIALS. 20-57

INTERFEROMETRY
FRACTIONAL FRINGE TIME DIFFERENTIAL HOLOGRAPHIC INTERFEROMETRY. 10-41

HETERODYNE INTERFEROMETRY PLASMA DENSITY MEASUREMENT. 10-47

PULSED HYDROGEN FLUORIDE LASER HOLOGRAPHIC INTERFEROMETRY. 20-123

INTERMEDIATE
COINCIDENCE EXPERIMENTS AT INTERMEDIATE ENERGIES. 22-9

EFFECTS OF SOLUTION AND INTERMEDIATE HEAT TREATMENTS ON THE NOTCH - RUPTURE BEHAVIOR OF INCONEL 718. 23-17

USE OF INTERMEDIATE HEAT TREATMENTS FOR THE RESTORATION OF THE NOTCH RUPTURE PROPERTIES OF INCONEL 718. 23-61

PROTON - NUCLEUS SCATTERING AT INTERMEDIATE ENERGIES. 25-181

INTERMITTENT
COOLING TOWER MODIFICATION FOR INTERMITTENT OPERATION. 13-2

INTERNAL
ON-LINE INTERNAL CONVERSION COEFFICIENTS FOR THE DECAYS OF MASS SEPARATED KRYPTON -91 AND RUBIDIUM -91. 25-149

INTERNATIONAL
NUMERICAL METHODS IN FLUID DYNAMICS. 1974. 4TH INTERNATIONAL CONFERENCE, BOULDER. PROCEEDINGS, LECTURE NOTES IN PHYSICS, V.35. 18-32

AEROSPACE INSTRUMENTATION. 1973. 19TH INTERNATIONAL SYMPOSIUM, LAS VEGAS, NV. PROCEEDINGS, INSTRUMENTATION IN THE AEROSPACE INDUSTRY, V.19. 19-1

INSTRUMENTATION 1974. 20TH INTERNATIONAL SYMPOSIUM, ALBUQUERQUE, NM. PROCEEDINGS, INSTRUMENTATION IN THE AEROSPACE INDUSTRY, V.20, ADVANCES IN TEST MEASUREMENT, V.11. 19-9

HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS. 25-94

INTERPENETRATING
FLOW OF INTERPENETRATING MATERIAL PHASES. 18-15

INTERPHASE
RNA SYNTHESIS IN CHINESE HAMSTER CELLS. 3. NON-COORDINATE INCREASES DURING INTERPHASE IN SYNTHESIS RATES FOR INFORMOSOMAL, POLYSOMAL, AND HETEROGENEOUS NUCLEAR RNAS. 5-129

INTERPLANETARY
FAST SOLAR ELECTRONS, INTERPLANETARY PLASMA AND KM WAVE TYPE III RADIO BURSTS OBSERVED FROM THE IMP-6 SPACECRAFT 1-10

RESPONSE OF THE PLASMA SHEET AT APPROXIMATELY 18 EARTH RADII TO SUDDEN SOUTHWARD TURNINGS OF THE INTERPLANETARY MAGNETIC FIELD. 1-23

INTERPLAY
NUMERICAL STUDIES OF THE INTERPLAY BETWEEN SELF PHASE MODULATION AND DISPERSION FOR INTENSE PLANE WAVE LASER PULSES 20-105

INTERPRETATION
CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES. 2. 30 MAY 1965 RESULTS, DECONVOLUTION AND INTERPRETATION. 3-11

THEORETICAL, ANALYTICAL, AND STATISTICAL INTERPRETATION OF ENVIRONMENTAL DATA. 17-59

MEASUREMENT AND INTERPRETATION OF GAMMA(N)/GAMMA(F) FOR ACTINIDE NUCLEI 25-111

INTERSTELLAR
POROSITY OF THE INTERSTELLAR MEDIUM. 3-34

INTERSTITIAL
TIME DEPENDENT SOLUTION TO INTERSTITIAL DIFFUSION IN A TEMPERATURE GRADIENT 7-24

INTERVAL
NEW HIGH PRECISION MEASUREMENT OF THE MUONIUM HYPERFINE STRUCTURE INTERVAL DELTA NU 25-137

PRECISION MEASUREMENT OF 1S(1/2) MUONIUM HYPERFINE STRUCTURE INTERVAL DELTA NU 2 RESULTS. 25-178

INTERVENORS
CONCERNS OF INTERVENORS IN NUCLEAR POWER PLANT LICENSING HEARINGS 30-14

INTRINSIC
INTRINSIC DISSIPATION AND THINNING IN FILM FLOW. 8-19

INTRINSICALLY
INTRINSICALLY SAFE STRAIN GAGE MONITORING SYSTEM. 19-11

INTRODUCTION
INTRODUCTION TO FLOW SYSTEMS FOR CELL ANALYSIS AND SORTING. 5-82

INTRODUCTION TO LASER FUSION. 20-58

INTRODUCTION TO INVARIANT IMBEDDING. 21-43

INTRODUCTION TO EXPLOSIVE MAGNETIC FLUX COMPRESSION GENERATORS. 27-8

METRICATION: INTRODUCTION AND COMMENTARY. 30-48

INTRUSIONS
NUMERICAL STUDIES OF THE THERMAL EVOLUTION OF INTRUSIONS IN RELATIONSHIP TO OBSERVED TEMPERATURES IN GT-2. 11-34

INVARIANT
INVARIANT COMPTON KERNELS FOR RADIATION TRANSPORT. 18-20

INTRODUCTION TO INVARIANT IMBEDDING. 21-43

INVENTORY
COMPUTERIZED INVENTORY/DESIGN SYSTEM FOR GRAPHITE MOLDS. 21-23

NONDESTRUCTIVE ASSAY OF INVENTORY VERIFICATION SAMPLES AT THE LASL VAN DE GRAAFF SMALL SAMPLE ASSAY STATION. 26-13

CONTINUOUS INVENTORY IN SNM STORAGE FACILITIES. 26-4

CONTINUOUS INVENTORY IN SNM STORAGE FACILITIES. 26-5

INVERSE
HOT ELECTRON PRODUCTION, ANOMALOUS ABSORPTION AND EFFECT OF INTENSE ELECTROMAGNETIC FIELDS ON INVERSE BREMSSTRAHLUNG ABSORPTION NEAR THE ELECTRON PLASMA FREQUENCY. 10-50

IODIDE
EMF'S ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM: BARE ELECTRODE EFFECTS, USE OF N UNEQUAL TO 2, PREMONITORY PHENOMENA AND LIQUID STRUCTURE IN GOLD -CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS. 7-5

TIME RESOLVED OUTPUT SPECTRUM FROM A HYDROGEN FLUORIDE LASER USING MIXTURES OF SULFUR HEXAFLUORIDE AND HYDROGEN IODIDE 20-156

IODINE
ON THE THERMAL RATE COEFFICIENT AND ACTIVATION ENERGY OF THE IODINE + IODINE(2) ATOM EXCHANGE REACTION. 6-12

COMPARISON OF THE COMBINED PHASE SPACE TRAJECTORY AND QUASICLASSICAL TRAJECTORY METHODS IN THE STUDY OF REACTION DYANMICS: HYDROGEN + IODINE(2) AND HYDROGEN + BROMINE(2). 6-4

IODINE 131 RELEASE FROM AN HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) DURING THE LOFC (LOSS OF COOLANT) ACCIDENT 17-30

IODIZED
IODIZED STARCH GRANULES AS A CAUSE OF STARCH PERITONITIS. 5-84

ION
SOLAR WIND HEAVY ION ABUNDANCES. 1-25

ELECTROMAGNETIC ION BEAM INSTABILITIES IN THE SOLAR WIND. 1-5

EVIDENCE FOR LOCAL ION HEATING IN SOLAR WIND HIGH SPEED STREAMS. 1-8

CONFIGURATION INTERACTION STUDIES OF OZONE AND OZONE POSITIVE ION GROUND AND EXCITED STATES 4-12

REACTIONS OF DIATOMIC RARE GAS IONS WITH RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 50 EV 4-54

SELF CONSISTENT FIELD CALCULATION OF THE ELECTRONIC STRUCTURE OF THE URANYL ION 4-59

HEAVY ION IRRADIATION OF HUMAN AND CHINESE HAMSTER CELLS IN VITRO. 5-74

LIGHT ION LINACS FOR MEDICAL APPLICATIONS 5-93

ELECTROMAGNETIC ION CYCLOTRON INSTABILITY DRIVEN BY ION ENERGY ANISOTROPY IN HIGH BETA PLASMAS 10-25

HYBRID SIMULATION OF SCREW PINCH IMPLOSIONS WITH IMPURITIES AND OF THETA PINCH IMPLOSIONS RESULTING IN REFLECTED ION BEAMS 10-53

ION COUPLING, ELECTRON HEATING, AND MAGNETIC TURBULENCE FROM PLASMA INSTABILITIES 10-63

ION STAGE BUILDUP IN A THETA PINCH SEEDED WITH IRON 10-64

ION TEMPERATURE MEASUREMENT BY LASER SCATTERING AT 2.8 MICRONS. 10-65

ION TEMPERATURE MEASUREMENTS ON THE ZT-1 REVERSED FIELD PINCH. 10-66

COMPUTER SIMULATION OF COLLECTIVE ION ACCELERATION BY RELATIVISTIC ELECTRON BEAMS. 10-9

COLLECTIVE ION ACCELERATION VIA THE TWO STREAM INSTABILITY. 20-18

ION ACCELERATION BY THE RELATIVISTIC TWO STREAM INSTABILITY. 20-59

ION TAIL FILLING IN LASER FUSION TARGETS. 20-60

ION WAVE TURBULENCE INDUCED BY AN EXPANDING MULTI-COMPONENT PLASMA. 20-61

PROTOTYPE HIGH CURRENT, HIGH DUTY FACTOR NEGATIVE HYDROGEN ION SOURCE FOR LAMPF. 22-44

MECHANISM OF HEAVY ION REACTIONS AND THE PRODUCTION OF SUPERHEAVY NUCLEI. 25-116

RELATIVISTIC HYDRODYNAMIC THEORY OF HEAVY ION COLLISIONS 25-195

STATICS AND DYNAMICS OF HEAVY ION COLLISIONS. 25-210

COMPLETE FUSION CROSS SECTIONS IN HEAVY ION REACTIONS. 25-34

100 MHZ POWER AMPLIFIER DESIGN AND CONTROL FOR A HEAVY ION ACCELERATOR. 27-1

DESIGN STUDIES OF HEAVY ION LINEAR ACCELERATORS CONSTRUCTED OF INDEPENDENTLY PHASED SPIRAL RESONATORS. 27-3

IONIZATION
ASSOCIATIVE IONIZATION AND EXCITATION TRANSFER IN HELIUM. 4-2

ATMOSPHERIC IONIZATION PRODUCED BY SPRINT BURSTS. 4-4

IONIZED
DENSITY SENSITIVE LINES OF HIGHLY IONIZED IRON. 4-13

IONOSPHERIC
STIMULATED DIFFUSION SCATTERING IN IONOSPHERIC MODIFICATION. 20-142

IONS
ELECTRON TRANSFER IN COLLISIONS BETWEEN ATOMIC IONS AND RARE GAS ATOMS. 4-17

REACTIONS OF DIATOMIC RARE GAS IONS WITH RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 50 EV. 4-54

RESONANT LINE AND SATELLITE SPECTRA FROM ONE, TWO, AND THREE ELECTRON IONS IN LASER GENERATED PLASMAS. 4-57

PIONS AND HEAVY IONS IN RADIOTHERAPY: A BRIEF REVIEW. 5-113

CELL SURVIVAL AS A FUNCTION OF DEPTH FOR NEGATIVE PIONS AND HEAVY IONS. 5-30

ENERGY SPECTRUM OF INJECTED FUSSILE IONS IN TWO COMPONENT FUSION SYSTEMS. 10-29

HIGH ENERGY IONS FROM A CARBON DIOXIDE LASER PRODUCED PLASMA. 20-48

PHOTOIONIZATION CROSS SECTIONS AND RADIATIVE RECOMBINATION RATE COEFFICIENTS FOR POSITIVE IONS OF CARBON AND GOLD. 25-163

RADIOCHEMICAL INVESTIGATION OF REACTIONS OF ARGON -40 AND KRYPTON -84 IONS WITH URANIUM -238 TARGETS. 25-193

IRIDIUM
REDUCTIVE SYNTHESES OF TRANSITION METAL FLUORIDE COMPOUNDS. THE SYNTHESIS OF RHENIUM, OSMIUM AND IRIDIUM PENTAFLUORIDES AND TETRAFLUORIDES. 7-16

FRACTURE BEHAVIOR OF IRIDIUM - 0.3 PERCENT TUNGSTEN AT HIGH STRAIN RATES. 23-23

IRIS
TWO DIMENSIONAL CALCULATIONS OF ASYMMETRIC LASER FUSION TARGETS USING IRIS. 20-158

IRON
IDENTIFICATION OF SOLAR FLARE IRON(XVIII) TO IRON(XXIII) EMISSION LINES FROM 2S(N)2P(K)-2S(N-1)2P(K+1) TRANSITIONS. 3-21

ANALYSIS OF VUV EMISSION IN A THETA PINCH SEEDED WITH NEON AND IRON. 4-1

DENSITY SENSITIVE LINES OF HIGHLY IONIZED IRON. 4-13

SPONTANEOUS MAGNETIC ORDER IN EXTREMELY DILUTE GOLD - IRON ALLOYS. 8-42

ION STAGE BUILDUP IN A THETA PINCH SEEDED WITH IRON. 10-64

EFFECT OF STRAIN AGING ON THE DYNAMIC ELASTIC - PLASTIC PROPERTIES OF IRON. 23-13

MATRIX MOTION OF LOW VOLUME MATRIX TUNGSTEN/NICKEL/IRON COMPOSITES SINTERED IN A TEMPERATURE GRADIENT. 23-37

RESPONSE OF IRON TO DYNAMIC COMPRESSION. 23-51

MUONIC ISOTOPE SHIFTS IN THE EVEN IRON NUCLEI. 25-125

PHOTOIONIZATION CROSS SECTIONS AND RADIATIVE RECOMBINATION RATE COEFFICIENTS FOR IRON(XV-XXV). 25-162

SELF SHIELDED CROSS SECTIONS FOR NEUTRON TRANSPORT IN IRON. 25-201

DEFORMED HARTREE-FOCK DESCRIPTION OF THE IRON, NICKEL, AND ZINC ISOTOPES. 25-44

DIFFERENTIAL CROSS SECTIONS FOR GAMMA RAYS FROM IRON FOR INCIDENT NEUTRONS OF 8.5, 10.0, 12.2, AND 14.2 MEV. 25-49

IRRADIANCE
PEAK IRRADIANCE MEASUREMENTS ON A 10 J, 1 NS, CARBON DIOXIDE LASER. 20-115

IRRADIATED
QUANTITATIVE DETERMINATION OF FISSION PRODUCTS IN IRRADIATED FUEL PINS USING NONDESTRUCTIVE GAMMA SCANNING. 2-21

QUANTITATIVE DETERMINATION OF FISSION PRODUCTS IN IRRADIATED FUEL PINS USING NONDESTRUCTIVE GAMMA SCANNING. 2-22

AXIAL DISTRIBUTIONS OF NIOBIUM -95 AND ZIRCONIUM -95 ISOTOPES IN IRRADIATED URANIUM DIOXIDE - PLUTONIUM DIOXIDE FUEL PINS. 2-3

SURVIVAL OF CULTURED MAMMALIAN CELLS IRRADIATED AT VARIOUS DEPTHS IN THE LAMPF NEGATIVE PION THERAPY BEAM. 5-139

ISOLATION OF STRONTIUM -82 FROM 200-600 MEV PROTON IRRADIATED MOLYBDENUM TARGETS FOR BIOMEDICAL APPLICATIONS. 5-85

CHEMISTRY COMPUTATIONS FOR IRRADIATED HOT AIR. 6-3

PLASMA SIMULATION STUDIES OF STIMULATED SCATTERING PROCESSES IN LASER IRRADIATED PLASMAS. 20-118

THEORY OF STIMULATED SCATTERING PROCESSES IN LASER IRRADIATED PLASMAS. 20-153

FAILURE OBSERVATIONS ON ENCAPSULATED EXPERIMENTAL MARK-II FUEL ELEMENTS IRRADIATED IN EBR-II. 23-21

AUTOMATED NONDESTRUCTIVE ASSAY SYSTEM FOR THE MEASUREMENT OF IRRADIATED ROVER FUEL. 26-2

POSTIRRADIATION RESULTS AND EVALUATION OF SODIUM BONDED URANIUM - PLUTONIUM CARBIDE FUEL ELEMENTS IRRADIATED IN EBR-II. INTERIM REPORT. 28-27

IRRADIATION
AGE RESPONSE FOR LINE CHO CHINESE HAMSTER CELLS EXPOSED TO X IRRADIATION AND ALPHA PARTICLES FROM PLUTONIUM. 5-1

CHARACTERISTICS OF A NEGATIVE PION BEAM FOR THE IRRADIATION OF SUPERFICIAL NODULES. 5-37

EVIDENCE THAT X IRRADIATION INHIBITS DNA REPLICON INITIATION IN CHINESE HAMSTER CELLS. 5-62

HEAVY ION IRRADIATION OF HUMAN AND CHINESE HAMSTER CELLS IN VITRO. 5-74

LUNG RESPONSE TO LOCALIZED IRRADIATION FROM PLUTONIUM MICROSPHERES. 5-94

NEUTRON IRRADIATION OF NIOBIUM(3)TIN AND NIOBIUM - TITANIUM MULTIFILAMENTARY COMPOSITES. 8-30

NEUTRON IRRADIATION OF NIOBIUM(3)TIN AND NIOBIUM - TITANIUM MULTIFILAMENTARY COMPOSITES. 8-31

EFFECTS OF NEUTRON IRRADIATION ON CRITICAL CURRENT OF NIOBIUM(3)TIN AT HIGH FIELD. 23-15

THEORY OF IRRADIATION INDUCED GROWTH OF FATIGUE CRACKS. 23-57

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, JANUARY 1 THROUGH MARCH 31, 1975. 28-32

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-33

REDUCTION IN SURFACTANTS BY IRRADIATION. 30-77

IRRADIATIONS
EFFECTS OF REACTOR NEUTRON, 14 MEV NEUTRON AND ENERGETIC CHARGED PARTICLE IRRADIATIONS ON THE CRITICAL CURRENT IN NIOBIUM(3)TIN. 23-16

ISING
THEORY OF MAGNETIZED ISING ANTIFERROMAGNETS AT LOW TEMPERATURES. 8-53

ISOELECTRONIC
TRANSITIONS 2S(2)2P(K)-2S2P(K+1) OF THE FLUORINE(I), OXYGEN(I), AND NITROGEN(I) ISOELECTRONIC SEQUENCES. 4-66

TRANSITIONS 2S(2)2P(K)-2S2P(K+1) OF THE NITROGEN(I) AND CARBON(I) ISOELECTRONIC SEQUENCES. 4-67

ISOLATED
MOSSBAUER STUDY OF RARE GAS MATRIX ISOLATED TELLURIUM -125 DIMERS, TELLURIUM -125 HEXAFLUORIDE, AND TELLURIUM -125 TETRACHLORIDE MOLECULES. 4-40

FLOW MICROFLUOROMETRIC ANALYSIS OF ISOLATED CHINESE HAMSTER CHROMOSOMES. 5-65

ISOLATION
ISOLATION OF STRONTIUM -82 FROM 200-600 MEV PROTON IRRADIATED MOLYBDENUM TARGETS FOR BIOMEDICAL APPLICATIONS. 5-85

ISOMER
E3 ISOMER OF SILVER -101. 25-50

ISOMERIC
MASS AND KINETIC ENERGY MEASUREMENTS OF FRAGMENTS FROM THE ISOMERIC AND EXCITED STATE FISSION OF AMERICIUM -242. 16-7

ISOMERS
E3 ISOMERS OF YTTRIUM -93 AND SILVER -101. 25-51

ISOSPIN
PARITY VIOLATING ASYMMETRY IN NEUTRON PHOTO CAPTURE BY PROTONS AND THE ISOSPIN STRUCTURE OF THE STRANGENESS CONSERVING NONLEPTONIC WEAK INTERACTIONS. 25-155

ISOTHERMAL
COMPRESSION AND BONDING OF ICE VII AND AN EMPIRICAL LINEAR EXPRESSION FOR THE ISOTHERMAL COMPRESSION OF SOLIDS. 4-11

ISOTHERMAL LINEAR AND VOLUME COMPRESSION OF PENTAERYTHRITOL TETRANITRATE (PETN) TO 10 GPA (100 KBAR) AND THE CALCULATED SHOCK COMPRESSION. 15-16

ISOTOPE
ISOTOPE EFFECTS IN THE SCHUMANN-RUNGE BANDS OF MOLECULAR OXYGEN. 4-32

STABLE ISOTOPE TECHNOLOGY AND ABNORMAL MAMMALIAN EMBRYONIC DEVELOPMENT. 5-137

STRONTIUM -82 - RUBIDIUM -82 ISOTOPE GENERATOR FOR USE IN NUCLEAR MEDICINE. 5-138

HYDROGEN ISOTOPE SEPARATION FROM WATER. 20-53

ISOTOPE SEPARATION. 20-62

LASER ISOTOPE SEPARATION. 20-78

MUONIC ISOTOPE SHIFTS IN THE EVEN IRON NUCLEI. 25-125

NUCLEAR CHARGE DISTRIBUTIONS IN THE MASS 60 REGION: NEW EVIDENCE FROM MUONIC ISOTOPE SHIFT MEASUREMENTS. 25-140

ISOTOPES
AXIAL DISTRIBUTIONS OF NIOBIUM -95 AND ZIRCONIUM -95 ISOTOPES IN IRRADIATED URANIUM DIOXIDE - PLUTONIUM DIOXIDE FUEL PINS. 2-3

PROBLEMS AND POTENTIALITIES OF STABLE ISOTOPES AS TRACERS FOR STUDYING POLLUTANT BEHAVIOR UNDER FIELD CONDITIONS. 7-13

SYNTHESES WITH STABLE ISOTOPES: SODIUM CYANIDE - CARBON -13. 7-18

SYNTHESES WITH STABLE ISOTOPES: UREA (CARBON -13), UREA (CARBON -12), AND UREA (CARBON -13,NITROGEN -15) 7-19

EXPERIMENTAL DETERMINATION OF PHOTOFISSION NEUTRON MULTIPLICITIES FOR EIGHT ISOTOPES IN THE MASS RANGE 232 A 239. 16-1

MEASUREMENT, ANALYSIS, AND IMPLICATIONS OF THE FISSION CROSS SECTIONS OF THE IMPORTANT FISSIONABLE ISOTOPES. 25-115

DEFORMED HARTREE-FOCK DESCRIPTION OF THE IRON, NICKEL, AND ZINC ISOTOPES. 25-44

ISOTOPIC
DETERMINATION OF OXYGEN -17 AND OXYGEN -18 ISOTOPIC ABUNDANCES IN PLUTONIUM -238 MATERIALS BY GAMMA RAY SPECTROMETRY. 2-9

ADDITIONAL NOTE ON THE ISOTOPIC COMPOSITION OF STRONTIUM IN MCCARTYS FLOW, VALENCIA COUNTY, NEW MEXICO. 11-1

ISOTOPIC ENRICHMENT BY MULTIPLE ABSORPTION OF CARBON DIOXIDE LASER RADIATION. 20-63

ISOTOPIC ENRICHMENT OF SULFUR HEXAFLUORIDE IN SULFUR -34 BY MULTIPLE ABSORPTION OF CARBON DIOXIDE LASER RADIATION. 20-64

NEUTRON MEASUREMENTS OF URANIUM -234 ISOTOPIC ABUNDANCE IN URANIUM HEXAFLUORIDE SAMPLES. 26-11

ON LINE MEASUREMENT OF THE ISOTOPIC COMPOSITION OF URANIUM IN URANIUM HEXAFLUORIDE 26-20

ISSUES
ENVIRONMENTAL ISSUES RELATED TO ENERGY RESOURCE DEVELOPMENT IN NEW MEXICO. 17-23

IV-P
SCYLLA IV-P LINEAR THETA PINCH. 10-117

J
PEAK IRRADIANCE MEASUREMENTS ON A 10 J, 1 NS, CARBON DIOXIDE LASER. 20-115

BOOK REVIEW: APPLICABLE FINITE MATHEMATICS, BY D. S. MOORE AND J. W. YACKEL. 21-14

IMPORTANCE OF THE QUADRUPOLE PAIRING FIELD IN THE J(PI)=0(+) VIBRATIONS OF SHAPE DEFORMED NUCLEI. 25-97

JANUARY
SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, JANUARY 1 - MARCH 31, 1975. 8-47

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JANUARY 1 - MARCH 31, 1975. 8-59

LASL CONTROLLED THERMONUCLEAR RESEARCH PROGRAM, JANUARY - DECEMBER 1974. 10-70

FOCAL MECHANISM OF THE DULCE, NEW MEXICO, EARTHQUAKE ON JANUARY 23, 1966. 11-16

SOLID EARTH GEOSCIENCES RESEARCH ACTIVITIES AT LASL, JANUARY 1 - JUNE 30, 1975. 11-53

VENTILATION SYSTEMS ANALYSIS DURING TORNADO CONDITIONS, JANUARY - JUNE 1975. 13-19

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JANUARY 1 - MARCH 31, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-22

PROGRESS REPORT: RESPIRATOR STUDIES FOR THE AEC DIRECTORATE OF REGULATORY STANDARDS, JANUARY 1 THROUGH JUNE 30, 1974. 17-46

QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1975. 22-47

BIBLIOGRAPHY OF CHEMISTRY AND METALLURGY DOCUMENTS RECEIVED BY THE LOS ALAMOS DOCUMENT ROOM IN THE PERIOD JANUARY 1, 1947 TO JANUARY 1, 1948. 23-2

BIBLIOGRAPHY OF CHEMISTRY AND METALLURGY DOCUMENTS RECEIVED BY THE LOS ALAMOS DOCUMENT ROOM IN THE PERIOD JANUARY 1, 1947 TO JANUARY 1, 1948. 23-2

RESEARCH ON CARBON - ALUMINUM COMPOSITES, JANUARY 1 - JUNE 30, 1975. 23-50

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, JANUARY 1 - MARCH 31, 1975. 25-15

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT. PROGRAM STATUS REPORT, JANUARY - APRIL 1975. 26-17

TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, JANUARY 1 - MARCH 31, 1975. 27-19

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, JANUARY THROUGH MARCH 1975. 28-18

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, JANUARY 1 THROUGH MARCH 31, 1975. 28-32

QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC R AND D PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1969. PART 2. 30-71

JEMEZ
FAULT ACTIVITY AND SEISMICITY NEAR THE LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST SITE, JEMEZ MOUNTAINS, NEW MEXICO 11-15

JOHNSON
FOLDED DIAGRAM THEORY, TIME DEPENDENT APPROACH OF JOHNSON AND BARANGER. 25-81

JOINT
LOS ALAMOS PRESENTATION ON LASER FUSION TO THE JOINT COMMITTEE ON ATOMIC ENERGY, WASHINGTON, DC, MARCH 13, 1975. 20-86

JULY
PASSIVE ELECTRONIC IDENTIFICATION AND TEMPERATURE MONITORING SYSTEM, JULY 1, 1974 - JUNE 30, 1975. 5-109

SEROLOGIC TEST DEVELOPMENT, JULY 1 1974 - JUNE 30, 1975. 5-132

ANNUAL REPORT SEROLOGIC TEST DEVELOPMENT, JULY 1, 1973 THROUGH JUNE 30, 1974 5-3

H-DIVISION PROGRESS REPORT, 20 JULY 1949 - 20 AUGUST 1949. 5-71

H-DIVISION PROGRESS REPORT, 20 JUNE 1949 - 20 JULY 1949 5-72

LASL NIOBIUM(3)GERMANIUM CONDUCTOR DEVELOPMENT, MAY 1 - JULY 31, 1975. 8-24

PROGRESS REPORT, USERDA-DAT DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JULY 1 THROUGH SEPTEMBER 30, 1974 8-38

MT. BAKER 11 APRIL TO 1 JULY 1975. 11-32

SOLID EARTH GEOSCIENCES RESEARCH ACTIVITIES AT LASL, JULY 1 - DECEMBER 31, 1974. 11-54

PROGRESS REPORT, RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES FOR THE PERIOD JULY 1 TO SEPTEMBER 30, 1974. 12-16

VENTILATION SYSTEMS ANALYSIS DURING TORNADO CONDITIONS, JULY THROUGH DECEMBER 1974 13-20

DEVELOPMENT OF SAMPLING AND ANALYTICAL METHODS FOR CARCINOGENS, JULY 1 -DECEMBER 31, 1974. 17-14

MULTIPLE HEPA FILTER TEST METHODS, JULY 1, 1974 - MARCH 31, 1975. 17-32

PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS FOR PERIOD JULY 1 THROUGH DECEMBER 31, 1972. 17-36

PROGRESS REPORT, ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JULY 1 THROUGH SEPTEMBER 30, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-45

CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY, JULY - DECEMBER 1974. 17-6

LASER PROGRAM AT LASL, JULY 1 - DECEMBER 31, 1974. 20-80

APPLIED MATHEMATICS RESEARCH AND VISITOR PROGRAM, JULY 1, 1974 - JUNE 30, 1975. 21-7

SPECIAL REPORT PRESENTED AT JULY MEETING WITH C. A. THOMAS ON FINAL PURIFICATION AND METALLURGY OF 49. 23-53

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, JULY 1 - SEPTEMBER 30, 1975. 25-16

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS, JULY 1 - SEPTEMBER 30, 1975. 28-11

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, JULY -SEPTEMBER 1975. 28-20

TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, JULY 1 - SEPTEMBER 30, 1975. 28-39

JULY 16TH NUCLEAR EXPLOSION SPACE - TIME RELATIONSHIPS. 30-34

JULY 16TH NUCLEAR EXPLOSION. BLAST MEASUREMENTS WITH CONDENSER GAUGES 30-35

P DIVISION PROGRESS REPORT, 20 JUNE 1948 - 20 JULY 1948. 30-56

QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENDING JULY 31, 1967. 30-70

STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR FOUR MONTH PERIOD ENDING JULY 20, 1962 30-86

JUMPING
SELF FLYING ATOMIC BOMBS (NEW MEXICO JUMPING BEANS). 30-82

JUNCTION
BOND GRAPH JUNCTION STRUCTURES. 21-12

JUNE
ABSOLUTE INTENSITIES OF THE OUTER CORONA FROM THE JUNE 30, 1973 TOTAL SOLAR ECLIPSE. 3-1

PASSIVE ELECTRONIC IDENTIFICATION AND TEMPERATURE MONITORING SYSTEM, JULY 1, 1974 - JUNE 30, 1975. 5-109

SEROLOGIC TEST DEVELOPMENT, JULY 1, 1974 - JUNE 30, 1975. 5-132

ANNUAL REPORT, SEROLOGIC TEST DEVELOPMENT, JULY 1, 1973 THROUGH JUNE 30, 1974. 5-3

DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, APRIL 1 - JUNE 30, 1975. 5-50

H-DIVISION PROGRESS REPORT 20 MAY 1949 -20 JUNE 1949. 5-70

H-DIVISION PROGRESS REPORT, 20 JUNE 1949 - 20 JULY 1949. 5-72

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, APRIL 1 - JUNE 30, 1975. 8-58

SOLID EARTH GEOSCIENCES RESEARCH ACTIVITIES AT LASL, JANUARY 1 - JUNE 30, 1975. 11-53

VENTILATION SYSTEMS ANALYSIS DURING TORNADO CONDITIONS, JANUARY - JUNE 1975. 13-19

E DIVISION QUARTERLY STATUS REPORT, JUNE 1 - AUGUST 31, 1975 13-4

AEROSOL RESEARCH AND DEVELOPMENT RELATED TO HEALTH HAZARD ANALYSIS. LASL PROJECT R-038, APRIL 1 THROUGH JUNE 30, 1972. 17-1

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, APRIL 1 - JUNE 30, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS 17-21

EVALUATION OF METHODS FOR THE DETERMINATION OF MERCURY. LASL PROJECT R-060 QUARTERLY REPORT, APRIL 1 THROUGH JUNE 30, 1972. 17-27

PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS FOR THE PERIOD MARCH 1 THROUGH JUNE 30, 1972. 17-37

PROGRESS REPORT. RESPIRATOR STUDIES FOR THE AEC DIRECTORATE OF REGULATORY STANDARDS, JANUARY 1 THROUGH JUNE 30, 1974. 17-46

OPTICAL METHODS IN ENERGY CONVERSION, SPIE SEMINAR IN DEPTH, ROCHESTER, 23-25 JUNE 1975. 20-110

APPLIED MATHEMATICS RESEARCH AND VISITOR PROGRAM, JULY 1, 1974 - JUNE 30, 1975. 21-7

RESEARCH ON CARBON - ALUMINUM COMPOSITES, JANUARY 1 - JUNE 30, 1975. 23-50

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, APRIL 1 - JUNE 30, 1975. 25-14

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS, APRIL - JUNE 30, 1975, AND FY 1975. 28-12

TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY. APRIL 1 - JUNE 30, 1975. 28-38

P DIVISION PROGRESS REPORT, 20 JUNE 1948 - 20 JULY 1948. 30-56

JUPITER'S
LIMIT ON THE PHOTON MASS DEDUCED FROM PIONEER 10 OBSERVATIONS OF JUPITER'S MAGNETIC FIELD. 3-24

K
IDENTIFICATION OF SOLAR FLARE IRON(XVIII) TO IRON(XXIII) EMISSION LINES FROM 2S(N)2P(K)-2S(N-1)2P(K+1) TRANSITIONS. 3-21

IDENTIFICATION OF SOLAR FLARE IRON(XVIII) TO IRON(XXIII) EMISSION LINES FROM 2S(N)2P(K)-2S(N-1)2P(K+1) TRANSITIONS. 3-21

TRANSITIONS 2S(2)2P(K)-2S2P(K+1) OF THE FLUORINE(I), OXYGEN(I), AND NITROGEN(I) ISOELECTRONIC SEQUENCES. 4-68

TRANSITIONS 2S(2)2P(K)-2S2P(K+1) OF THE FLUORINE(I), OXYGEN(I), AND NITROGEN(I) ISOELECTRONIC SEQUENCES. 4-66

TRANSITIONS 2S(2)2P(K)-2S2P(K+1) OF THE NITROGEN(I) AND CARBON(I) ISOELECTRONIC SEQUENCES. 4-67

TRANSITIONS 2S(2)2P(K)-2S2P(K+1) OF THE NITROGEN(I) AND CARBON(I) ISOELECTRONIC SEQUENCES. 4-67

KA
10 KA, 300 KJ MAGNETIC ENERGY TRANSFER AND STORAGE (METS) TEST FACILITY. 8-1

DESIGN AND PERFORMANCE OF TWO 10 KA SUPERCONDUCTING SWITCHES. 8-10

KBAR
EQUATION OF STATE OF NITROGEN TO 21 KBAR FROM SIMULTANEOUS MEASUREMENT OF P V T AND SOUND VELOCITY. 4-22

MELTING PROPERTIES AND ULTRASONIC VELOCITY OF NITROGEN TO 20 KBAR. 4-39

SOUND VELOCITY AND THE EQUATION OF STATE OF NITROGEN(2) TO 22 KBAR. 4-63

ISOTHERMAL LINEAR AND VOLUME COMPRESSION OF PENTAERYTHRITOL TETRANITRATE (PETN) TO 10 GPA (100 KBAR) AND THE CALCULATED SHOCK COMPRESSION. 15-16

KEK
BEAD PERTURBATION MEASUREMENT FOR THE KEK LINAC CAVITY. 25-18

KERNEL
PARTIAL WAVE EXPANSION OF THE INDUCED COLLISION KERNEL 18-36

KERNELS
INVARIANT COMPTON KERNELS FOR RADIATION TRANSPORT. 18-20

KEV
MEASUREMENT OF THE ENERGY OF THE 6129 KEV GAMMA RAY OF OXYGEN -16. 25-114

ELECTRON ELASTIC SCATTERING CROSS SECTIONS FROM 1 KEV TO 100 MEV FOR ELEMENTS Z = 1 TO 100. 25-62

KEY
ZIRCONIUM CARBIDE, A KEY INGREDIENT FOR HIGH TEMPERATURE NUCLEAR FUELS. 23-65

KIKUCHI
HIGH ANGULAR RESOLUTION SECONDARY ELECTRON SPECTROSCOPY: KIKUCHI CORRELATIONS FOR ARSENIC (0001) 9-11

KILOBARS
MELTING PROPERTIES AND SOUND VELOCITY OF NITROGEN TO 21 KILOBARS. 4-38

KILOJOULE
LASL 2.5 KILOJOULE CARBON DIOXIDE SHORT PULSE LASER SYSTEM. 20-84

KILOTON
KILOTON SHIELD DOORS AT LAMPF. 13-8

KILOTON SHIELD DOORS AT LAMPF. 22-22

KILOVOLT
KILOVOLT SULFUR -33 (NEUTRON,ALPHA-0) AND SULFUR -33 (NEUTRON,GAMMA) CROSS SECTIONS: IMPORTANCE IN THE NUCLEOSYNTHESIS OF THE RARE NUCLEUS SULFUR -36. 25-101

KIND
NUMERICAL COMPARISON OF INTEGRAL EQUATIONS OF THE FIRST AND SECOND KIND FOR CONFORMAL MAPPING. 21-54

KINETIC
DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, APRIL 1 - JUNE 30, 1975 5-50

DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, SEPTEMBER 1, 1974 - MARCH 1, 1975 5-51

ARRESTED AND CYCLING CHO CELLS AS A KINETIC MODEL. 5-6

KINETIC PROPERTIES OF AN ENZYME HIGHLY ENRICHED IN CARBON -13. 5-86

SYSTEMATIC AND GRAPHICAL METHOD FOR GENERATING THE KINETIC EQUATIONS GOVERNING THE GROWTH OF AGGREGATES. 6-16

HYBRID - KINETIC MODEL FOR HIGH BETA PLASMAS. 10-51

KINETIC NONLOCAL ANALYSIS OF CROSS FIELD INSTABILITIES IN THETA PINCH PLASMAS 10-67

KINETIC PARAMETERS OF CARBONIC ANHYDRASE E BY CARBON -13 NUCLEAR MAGNETIC RESONANCE. 14-9

MASS AND KINETIC ENERGY MEASUREMENTS OF FRAGMENTS FROM THE ISOMERIC AND EXCITED STATE FISSION OF AMERICIUM -242. 16-7

KINETICS
CESIUM KINETICS DATA FOR ESTIMATING FOOD CONSUMPTION RATES OF TROUT 3-34

KINETICS OF HEMOLYTIC PLAQUE FORMATION. 2. INHIBITION OF PLAQUES BY HAPTEN 5-87

KINETICS OF HEMOLYTIC PLAQUE FORMATION. 3. INHIBITION OF PLAQUES BY ANTIGEN 5-88

KINETICS OF HEMOLYTIC PLAQUE FORMATION. 4. IGM PLAQUE INHIBITION 5-89

KINETICS OF HEMOLYTIC PLAQUE FORMATION. 5. THE INFLUENCE OF GEOMETRY ON PLAQUE GROWTH 5-90

QUASICLASSICAL TRAJECTORY STUDY OF THE MOLECULAR BEAM KINETICS OF THE DEUTERIUM ATOM - HYDROGEN HALIDE EXCHANGE REACTION. 6-15

KINETICS OF THE OXIDATION - REDUCTION REACTIONS OF URANIUM, NEPTUNIUM, PLUTONIUM AND AMERICIUM IN AQUEOUS SOLUTIONS. 7-10

KINETICS OF THE REACTION BETWEEN PLUTONIUM(III) AND CHROMIUM(VI) IN AQUEOUS PERCHLORATE SOLUTIONS 7-11

CESIUM KINETICS IN A MONTANE LAKE ECOSYSTEM 30-10

KINK
STABILITY OF KINK MODES IN HIGH BETA TOKAMAKS. 10-134

STABILITY OF KINK MODES IN HIGH BETA TOKAMAKS. 10-135

KIT
PIT CATALOG DESTINATION KIT 30-62

KIWI
EFFECTS OF ADDING HYDROGENOUS MATERIAL TO KIWI REACTORS. 30-21

KIWI TRANSIENT NUCLEAR TEST. 30-36

STRESS ANALYSIS AND STATIC TESTING OF KIWI GRAPHITE REFLECTOR CYLINDER STRUCTURES. 30-88

KIWI-A
INTEGRAL NEUTRON AND GAMMA DOSE MEASUREMENTS ON KIWI-A THREE. 30-33

CALORIMETER MEASUREMENT OF THE KIWI-A GAMMA RADIATION. 30-7

RADIOCHEMICAL MEASUREMENTS ON KIWI-A PRIME. SUMMARY REPORT. 30-73

KIWI-A3
RADIOCHEMICAL MEASUREMENTS ON KIWI-A3. 30-74

KIWI-B
KIWI-B HEAT EXCHANGER AND NEUTRONICS -DYNAMICS ANALYSIS. 30-37

KIWI-B-4E
THERMAL AND FLOW PERFORMANCE ANALYSIS OF THE KIWI-B-4E REACTOR. 30-96

KIWI-B1A
KIWI-B1A GAMMA DOSE RATE MEASUREMENTS. 30-38

KIWI-B4
FABRICATION OF URANIUM LOADED GRAPHITE FUEL ELEMENTS FOR KIWI-B4/B5 REACTORS. 30-27

MACHINING AND INSPECTION PROCEDURES USED AT LOS ALAMOS SCIENTIFIC LABORATORY FOR FUEL ELEMENTS OF THE KIWI-B4 SERIES. 30-45

TIME DENSITY STUDY OF WATER IN KIWI-B4 FUEL ELEMENTS WITH VARYING IMPACT VELOCITIES. 30-91

KIWI-TNT
RADIOCHEMICAL MEASUREMENTS ON KIWI-TNT. 30-75

KJ
10 KA, 300 KJ MAGNETIC ENERGY TRANSFER AND STORAGE (METS) TEST FACILITY. 6-1

KM
FAST SOLAR ELECTRONS, INTERPLANETARY PLASMA AND KM WAVE TYPE III RADIO BURSTS OBSERVED FROM THE IMP-6 SPACECRAFT. 1-10

KNOCKOUT
NEUTRON KNOCKOUT BY PIONS ON NITROGEN -14, OXYGEN -16, AND FLUORINE -19. 25-131

EFFECTS OF NUCLEON CHARGE EXCHANGE ON THE PION KNOCKOUT PUZZLE. 25-54

KOWALSKI'S
COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATION FOR THE FULLY OFF SHELL TWO NUCLEON T MATRIX. 25-38

KRYPTON
ON-LINE INTERNAL CONVERSION COEFFICIENTS FOR THE DECAYS OF MASS SEPARATED KRYPTON -91 AND RUBIDIUM -91. 25-149

RADIOCHEMICAL INVESTIGATION OF REACTIONS OF ARGON -40 AND KRYPTON -84 IONS WITH URANIUM -238 TARGETS. 25-193

KRYTRON
LASER INITIATED KRYTRON SWITCHED BLUMLEIN STRUCTURE FOR PULSE SELECTION. 20-77

L
L = 6.6 OOSIK BARIUM PLASMA INJECTION EXPERIMENT AND MAGNETIC STORM OF MARCH 7, 1972 1-16

L = 6.7 QUIET TIME BARIUM SHAPED CHARGE INJECTION EXPERIMENT CHACHALACA 1-17

VLF RADIO PHENOMENA FOLLOWING A BARIUM SHAPED CHARGE RELEASE AT L APPROXIMATELY EQUALS 6.5. 1-32

SCYLLAC SECTOR RESULTS WITH PROGRAMMED L=0 AND L=2 AUXILIARY FIELDS. 10-123

SCYLLAC SECTOR RESULTS WITH PROGRAMMED L=0 AND L=2 AUXILIARY FIELDS. 10-123

STABILITY OF A DIFFUSE, HIGH BETA, L = 1 SYSTEM. 10-133

L-SERIES
LASER PRODUCED L-SERIES X RAY SPECTRA. 4-34

LABELED
SAMPLING MIXTURES OF SOIL AND CARBON -14 LABELED PLANT MATERIALS. 2-24

NUCLEAR MAGNETIC RESONANCE OF ROTATIONAL MOBILITY OF MOUSE HEMOGLOBIN LABELED WITH (2- CARBON -13) HISTIDINE. 5-106

RAPID DISEASE SCREENING WITH ENZYME LABELED ANTIBODIES. 5-123

SEROLOGIC TESTING WITH ENZYME LABELED ANTIBODIES (ELA). 5-133

DECOMPOSITION OF CARBON -14 LABELED PLANT MATERIALS IN A GRASSLAND SOIL UNDER FIELD CONDITIONS. 5-49

LABELLED
CARBON -13 LABELLED COMPOUNDS. 30-8

LABORATORY
CONTROLLED THERMONUCLEAR RESEARCH AT THE LOS ALAMOS SCIENTIFIC LABORATORY. 10-12

PARTIAL CHRONOLOGY OF Z PINCH STUDIES AT LOS ALAMOS SCIENTIFIC LABORATORY, 1952-1975. 10-97

FAULT ACTIVITY AND SEISMICITY NEAR THE LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST SITE, JEMEZ MOUNTAINS, NEW MEXICO. 11-15

GEOPHYSICAL LOGGING IN LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST HOLE NO.2. 11-19

LABORATORY AND NUMERICAL STUDIES OF WATER - GRANITE INTERACTIONS AT ELEVATED TEMPERATURE AND PRESSURE. 11-25

NATIONAL ENERGY NEEDS, COAL, AND THE LOS ALAMOS SCIENTIFIC LABORATORY. 12-13

TRITIUM HANDLING FACILITIES AT THE LOS ALAMOS SCIENTIFIC LABORATORY. 13-18

SAFETY CONSIDERATIONS IN THE LASER RESEARCH PROGRAM AT THE LOS ALAMOS SCIENTIFIC LABORATORY. 17-51

VENTILATION DESIGN MODIFICATIONS AT LOS ALAMOS SCIENTIFIC LABORATORY MAJOR PLUTONIUM OPERATIONAL AREAS. 17-61

INTEGRATING ECLIPSE OPTICS INTO THE AEC AIR FORCE FLYING LABORATORY. 19-10

COMPUTER SCIENCE AND SERVICES DIVISION OF THE LOS ALAMOS SCIENTIFIC LABORATORY. 21-21

COMPUTERIZED IMAGE ANALYSIS AT THE LOS ALAMOS SCIENTIFIC LABORATORY. 21-22

COMPUTING FACILITIES AT LOS ALAMOS SCIENTIFIC LABORATORY. 21-25

ROLE OF THE SMALL ACCELERATOR IN THE NONDESTRUCTIVE ASSAY LABORATORY. 26-24

FUNDAMENTALS OF PASSIVE NONDESTRUCTIVE ASSAY OF FISSIONABLE MATERIAL: LABORATORY WORKBOOK. 26-7

ENERGY RELATED ACTIVITIES AT THE LOS ALAMOS SCIENTIFIC LABORATORY. 30-23

LOS ALAMOS SCIENTIFIC LABORATORY PROGRAMS AND CAPABILITIES. 30-44

MACHINING AND INSPECTION PROCEDURES USED AT LOS ALAMOS SCIENTIFIC LABORATORY FOR FUEL ELEMENTS OF THE KIWI-B4 SERIES. 30-45

ORGANIZING A WARTIME LABORATORY. 30-55

PACER PROGRAM. PHASE 1. THEORETICAL AND LABORATORY STUDIES. 30-58

PROPOSAL TO DESIGNATE CERTAIN LAND AREAS OF THE LOS ALAMOS SCIENTIFIC LABORATORY AS A NATIONAL ENVIRONMENTAL RESEARCH PARK. 30-66

STORY OF THE LOS ALAMOS LABORATORY. 30-87

LABORATORY'S
FORCED OSCILLATIONS OF THE LOS ALAMOS SCIENTIFIC LABORATORY'S DRY HOT ROCK GEOTHERMAL RESERVOIR. 11-17

LACK
LACK OF SPECIFIC CORRELATION OF THE DEOXYCYTIDINE TRIPHOSPHATE POOL LEVEL WITH RATE OF DNA SYNTHESIS. 5-91

LAGRANGIAN
DIFFUSION OF A PASSIVE SCALAR AT LARGE PRANDTL NUMBER ACCORDING TO THE ABRIDGED LAGRANGIAN INTERACTION THEORY. 18-10

LATE TIME PHENOMENOLOGY PREDICTIONS WITH AN ALMOST LAGRANGIAN CODE. 18-22

PAD, A ONE DIMENSIONAL LAGRANGIAN HYDROCODE. 18-35

DETONATION OF HIGH EXPLOSIVES IN LAGRANGIAN HYDRODYNAMIC CODES USING THE PROGRAMMED BURN TECHNIQUE. 18-9

TWO DIMENSIONAL LAGRANGIAN LASER PELLET SIMULATION CODE. 20-159

LAKE
CESIUM KINETICS IN A MONTANE LAKE ECOSYSTEM. 30-10

LAMINAR
STANDING WAVES AT LOW MACH NUMBER LAMINAR BOW SHOCKS. 1-28

LAMPF
MICRODOSIMETRY OF NEGATIVE PIONS AT LAMPF. 5-101

SPALLATION CROSS SECTIONS AND THE LAMPF MEDICAL RADIOISOTOPE PROGRAM. 5-135

SURVIVAL OF CULTURED MAMMALIAN CELLS IRRADIATED AT VARIOUS DEPTHS IN THE LAMPF NEGATIVE PION THERAPY BEAM. 5-139

TUNING OF THE BIOMEDICAL CHANNEL AT LAMPF. 5-142

TUNING OF THE FIRST SECTION OF THE BIOMEDICAL CHANNEL AT LAMPF. 5-143

DOSIMETRY FOR PION BEAMS AT LAMPF. 5-57

MEDICAL RADIOISOTOPES FROM LAMPF: STRONTIUM -82 - RUBIDIUM -82 PRODUCTION, RECOVERY, AND BIOMEDICAL GENERATOR. 5-98

KILOTON SHIELD DOORS AT LAMPF. 13-8

NON-INTERCEPTING BEAM POSITION SENSOR FOR LAMPF. 21-52

POLARIZED H MINUS SOURCE FOR LAMPF. 21-65

DESIGN OF THE LAMPF LOW ENERGY PION CHANNEL. 22-10

HIGH ENERGY NEUTRON SPECTRA AT THE LAMPF RADIATION EFFECTS FACILITY. 22-18

INSTRUMENTATION OPERATING EXPERIENCE ON LAMPF MAIN BEAM LINES. 22-21

KILOTON SHIELD DOORS AT LAMPF. 22-22

LAMPF EXPERIMENTAL AREA BEAM CURRENT MONITORS. 22-23

LAMPF MUON CHANNEL OPERATION. 22-24

LAMPF PROTON LINAC PERFORMANCE. 22-25

MEASUREMENT OF THE NEUTRON FLUX GENERATED BY THE LAMPF 800 MEV PROTON BEAM STOP. 22-28

BEAM CALCULATIONS FOR LAMPF MUON CHANNEL. 22-3

NON-INTERCEPTING POSITION MONITOR FOR THE LAMPF WNR BEAM. 22-33

OPERATING EXPERIENCE WITH LAMPF MAIN BEAM LINES INSTRUMENTATION AND CONTROL SYSTEM. 22-36

PERFORMANCE OF THE HIGH ENERGY PION BEAM AT LAMPF. 22-38

PERFORMANCE OF THE LAMPF H MINUS INJECTOR. 22-39

PROTOTYPE HIGH CURRENT, HIGH DUTY FACTOR NEGATIVE HYDROGEN ION SOURCE FOR LAMPF. 22-44

PULSED BEAM CHOPPER FOR LAMPF. 22-45

BEAM INTENSITY MONITORING FOR THE EXTERNAL PROTON BEAM AT LAMPF. 22-5

RECENT EXPERIMENTAL RESULTS OF THE MESIC CHEMISTRY PROGRAM AT LAMPF. 22-50

TESTING AND CALIBRATION OF A FARADAY CUP AND OTHER INTENSITY MONITORS FOR THE EXTERNAL PROTON BEAM AT LAMPF. 22-52

CALIBRATION OF THE BEAM SPILL CONTROL SYSTEM AT LAMPF. 22-7

PRODUCTION OF FLUORINE -18 USING ENERGETIC NEUTRONS FROM LAMPF BEAM STOP. 25-179

LAND
PROPOSAL TO DESIGNATE CERTAIN LAND AREAS OF THE LOS ALAMOS SCIENTIFIC LABORATORY AS A NATIONAL ENVIRONMENTAL RESEARCH PARK. 30-66

LANDAU
ELECTRON HEATING AND LANDAU DAMPING IN INTENSE LOCALIZED ELECTRIC FIELDS. 10-26

LANGER
COMPARISON OF THE LANGER, ROSEN, NOLAN-POLLAK, AND SANDS CONDENSATION NUCLEUS COUNTERS. 1-1

LANGMUIR
COLLISIONAL DAMPING OF LANGMUIR WAVES IN ONE DIMENSIONAL PLASMA SIMULATIONS. 20-19

LANTHANIDES
HUGONIOT EQUATION OF STATE OF THE LANTHANIDES. 4-29

LAS
AEROSPACE INSTRUMENTATION, 1973. 19TH INTERNATIONAL SYMPOSIUM, LAS VEGAS, NV. PROCEEDINGS, INSTRUMENTATION IN THE AEROSPACE INDUSTRY, V.19. 19-1

LASER
LASER PRODUCED L-SERIES X RAY SPECTRA. 4-34

RESONANT LINE AND SATELLITE SPECTRA FROM ONE, TWO, AND THREE ELECTRON IONS IN LASER GENERATED PLASMAS. 4-57

SATELLITE LINE SPECTRA FROM LASER PRODUCED PLASMAS. 4-58

CELL CLASSIFICATION BY LASER LIGHT SCATTERING: IDENTIFICATION AND SEPARATION OF UNSTAINED LEUKOCYTES. 5-19

CELL CLASSIFICATION BY MULTIANGLE LASER LIGHT SCATTERING IN A FLOW SYSTEM. 5-20

CLASSIFICATION OF HUMAN LEUKOCYTES BY MULTIANGLE LASER LIGHT SCATTERING IN A FLOW SYSTEM. 5-41

DIAGNOSES OF DISEASE STATES BY FLUORESCENT MEASUREMENTS UTILIZING SCANNING LASER BEAMS. 5-52

LASER FLOW MICROPHOTOMETERS FOR RAPID ANALYSIS AND SORTING OF INDIVIDUAL MAMMALIAN CELLS. 5-22

DYNAMICS OF THE DENSE PLASMA FOCUS AS DETERMINED FROM AN ANALYSIS OF LASER SCATTERING SPECTRA. 10-23

INITIAL LASER PLASMA INTERACTION EXPERIMENTS IN THE SCYLLA I-C THETA PINCH. 10-60

ION TEMPERATURE MEASUREMENT BY LASER SCATTERING AT 2.8 MICRONS. 10-65

LASER - PLASMA INTERACTIONS IN THE SCYLLA I-C EXPERIMENT: PRELIMINARY ANALYSIS. 10-68

LASER PLASMA INTERACTION IN THE SCYLLA I-C THETA PINCH. 10-69

SAFETY CONSIDERATIONS IN THE LASER RESEARCH PROGRAM AT THE LOS ALAMOS SCIENTIFIC LABORATORY. 17-51

BACKSCATTER MEASUREMENTS FROM LASER PRODUCED PLASMAS AT 10.6 MICRONS. 20-10

NEUTRON EMISSION FROM LASER PRODUCED PLASMAS. 20-100

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 1. X RAY METHOD. 20-102

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 2. PHOTONUCLEAR (DEUTERIUM (GAMMA,NEUTRON)) METHOD. 20-103

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 3. ELASTIC SCATTERING METHOD. 20-104

NUMERICAL STUDIES OF THE INTERPLAY BETWEEN SELF PHASE MODULATION AND DISPERSION FOR INTENSE PLANE WAVE LASER PULSES. 20-105

OPTICAL QUALITY STUDY OF THE LASL CARBON DIOXIDE LASER AMPLIFIER SYSTEM. 20-111

OPTICS IN LASER PRODUCED PLASMAS. 20-112

OXYGEN -18 ENRICHMENT PROCESS IN URANIUM OXYFLUORIDE UTILIZING LASER LIGHT. 20-113

PARAMETRIC STUDY OF A MULTIBAND CARBON DIOXIDE LASER. 20-114

PEAK IRRADIANCE MEASUREMENTS ON A 10 J, 1 NS, CARBON DIOXIDE LASER. 20-115

PERFORMANCE OF STRUCTURED LASER FUSION PELLETS. 20-116

PLASMA SIMULATION STUDIES OF STIMULATED SCATTERING PROCESSES IN LASER IRRADIATED PLASMAS. 20-118

PREHEAT EFFECTS ON MICROBALLOON LASER FUSION IMPLOSIONS. 20-119

CALCULATED PERFORMANCE OF STRUCTURED LASER FUSION PELLETS. 20-12

PREHEAT EFFECTS ON MICROBALLOON LASER FUSION IMPLOSIONS. 20-120

PULSE COMPRESSION FOR MORE EFFICIENT OPERATION OF SOLID STATE LASER AMPLIFIER CHAINS. 2. 20-122

PULSED HYDROGEN FLUORIDE LASER HOLOGRAPHIC INTERFEROMETRY. 20-123

PULSED HYDROGEN FLUORIDE LASER OSCILLATOR AMPLIFIER EXPERIMENTS. 20-124

QUALITY SELECTION OF LASER - FUSION TARGET MICROBALLOONS. 20-126

RADIOACTIVE WASTE OUTPUT FROM LASER -FUSION GENERATING STATIONS DURING NORMAL OPERATIONS. 20-127

RAMSES, A TWO DIMENSIONAL, PIC TYPE, LASER PULSE PROPAGATION CODE. 20-128

RECENT DEVELOPMENTS IN LASER - FUSION TARGET COATINGS. 20-129

RECENT DEVELOPMENTS IN UNDERSTANDING THE PLASMA PHYSICS OF LASER TARGET INTERACTIONS. 20-130

ROTATIONAL TEMPERATURE IN A HIGH PRESSURE PULSED CARBON DIOXIDE LASER. 20-134

SCALING AND EFFICIENT OPERATION OF THE 1720 A XENON LASER. 20-135

SELF FOCUSING PHENOMENA IN AIR - GLASS LASER STRUCTURES. 20-136

STATUS OF LASER FUSION RESEARCH. 20-138

STATUS REPORT, LASER FUSION TARGET FABRICATION, 30 APRIL 1974. 20-139

STEADY ABLATION OF LASER TARGETS IN SPHERICAL GEOMETRY. 1. THE MODEL. 20-140

STEADY ABLATION OF LASER TARGETS IN SPHERICAL GEOMETRY. 2. PHYSICAL RESULTS. 20-141

STRUCTURE AND SCALING LAWS OF LASER DRIVEN ABLATIVE IMPLOSIONS. 20-144

SYMMETRY AND STABILITY STUDIES OF THERMALLY GENERATED MAGNETIC FIELDS IN LASER PRODUCED PLASMAS. 20-147

SYSTEMS ANALYSIS OF LASER FUSION POWER PLANTS. 20-148

CARBON DIOXIDE LASER DEVELOPMENT AND ASYMMETRY IN LASER DRIVEN IMPLOSIONS. 20-15

THEORY OF STIMULATED SCATTERING PROCESSES IN LASER IRRADIATED PLASMAS. 20-153

THIN FILM DETECTOR SYSTEM FOR LASER -FUSION STUDIES. 20-154

TIME DEPENDENCE OF ROTATIONAL TEMPERATURE IN A HIGH PRESSURE PULSED CARBON DIOXIDE LASER. 20-155

TIME RESOLVED OUTPUT SPECTRUM FROM A HYDROGEN FLUORIDE LASER USING MIXTURES OF SULFUR HEXAFLUORIDE AND HYDROGEN IODIDE. 20-156

TWO DIMENSIONAL CALCULATIONS OF ASYMMETRIC LASER FUSION TARGETS USING IRIS. 20-158

TWO DIMENSIONAL LAGRANGIAN LASER PELLET SIMULATION CODE. 20-159

UV PHOTOIONIZATION PROCESSES IN SEEDED HIGH PRESSURE LASER GASES. 20-162

X RAY CONTINUUM AND LINE RADIATION FROM PLASMAS PRODUCED BY 10.6 MICROMETER LASER FOCUSED ON FLAT TARGETS. 20-164

X RAY PINHOLE CAMERAS FOR LASER PLASMA EXPERIMENTS. 20-165

COMPUTER SIMULATION OF A DEUTERIUM -TRITIUM PELLET MICROEXPLOSION IN A MAGNETICALLY PROTECTED LASER FUSION REACTOR. 20-20

DETERMINATION OF ARGON OXIDE 558 NM LASER PARAMETERS. 20-22

DEVELOPMENT OF AN ALPHA PARTICLE AND PROTON DETECTOR FOR LASER - FUSION STUDIES. 20-23

DIRECT NUCLEAR PUMPING OF A HELIUM -XENON LASER. 20-26

DISPERSIVE TEMPORAL COMPRESSION OF THE ENERGY IN LASER PULSES: A REVIEW. 20-28

EFFECT OF REFRACTIVE INDEX NONLINEARITY ON THE OPTICAL QUALITY OF HIGH POWER LASER BEAMS. 20-29

EFFECT OF SECONDARY ELECTRONS ON CHARGE COLLECTOR MEASUREMENT OF A LASER PRODUCED PLASMA. 20-30

ELECTRIC FIELD INDUCED HARMONIC GENERATION AS A PROBE OF THE FOCAL REGION OF A LASER BEAM. 20-32

ENERGY DEPOSITION RATES IN A LASER -FUSION REACTOR. 20-38

ENGINEERING CONCEPTS FOR LASER FUSION REACTOR APPLICATIONS. 20-39

AMPLIFICATION OF MULTILINE/MULTIBAND CARBON DIOXIDE LASER PULSES. 20-4

EQUAL AREA PROPERTY OF NARROW RESONANCES INDUCED IN COUPLED DOPPLER BROADENED SYSTEMS BY INTENSE LASER RADIATION. 20-40

EXPLOSIVE LASER. 20-41

FABRICATION OF LITHIUM DEUTERIUM (0.5) TRITIUM (0.5) MICROSPHERES FOR USE AS LASER FUSION TARGETS. 20-43

FAST FRAMING AND X RAY PINHOLE CAMERA TECHNIQUES FOR STUDY OF LASER GENERATED PLASMAS. 20-44

GENERATION OF LASER PULSES FOR OPTIMUM ABLATIVE COMPRESSIONS. 20-47

HIGH ENERGY IONS FROM A CARBON DIOXIDE LASER PRODUCED PLASMA. 20-48

HYDROGEN FLUORIDE CHEMICAL LASER. 20-52

INDICATIONS OF STRONGLY FLUX LIMITED ELECTRON THERMAL CONDUCTION IN LASER TARGET EXPERIMENTS. 20-55

INFLUENCE OF STANDING WAVE FIELDS ON THE LASER DAMAGE RESISTANCE OF DIELECTRIC FILMS. 20-56

INTERFEROMETRIC MEASUREMENTS OF THE NONLINEAR REFRACTIVE INDEX COEFFICIENT RELATIVE TO CARBON DISULFIDE IN LASER SYSTEM RELATED MATERIALS. 20-57

INTRODUCTION TO LASER FUSION. 20-58

ION TAIL FILLING IN LASER FUSION TARGETS. 20-60

ISOTOPIC ENRICHMENT BY MULTIPLE ABSORPTION OF CARBON DIOXIDE LASER RADIATION. 20-63

ISOTOPIC ENRICHMENT OF SULFUR HEXAFLUORIDE IN SULFUR -34 BY MULTIPLE ABSORPTION OF CARBON DIOXIDE LASER RADIATION. 20-64

LASER - FUSION ELECTRIC GENERATING STATIONS BASED ON THE MAGNETICALLY PROTECTED REACTOR CAVITY. 20-65

LASER - FUSION TARGET FABRICATION: APPLICATION OF A POLYMERIC ABLATOR COATING TO A BALL AND DISK TARGET DESIGN BY THE PHYSICAL VAPOR DEPOSITION OF POLYETHYLENE. 20-66

LASER APPLICATION OF HEAT PIPE TECHNOLOGY IN ENERGY RELATED PROGRAMS. 20-67

LASER DRIVEN IMPLOSION OF SPHERICAL DEUTERIUM - TRITIUM TARGETS TO THERMONUCLEAR BURN CONDITIONS. 20-68

LASER DRIVEN SYNTHESIS OF BORON HYDROCHLORIDE FROM BORON CHLORIDE AND HYDROGEN. 20-69

LASER FUSION EXPERIMENTS AT LOS ALAMOS. PART 2: THE LASL CARBON DIOXIDE SHORT PULSE OSCILLATOR - AMPLIFIER SYSTEM. 20-70

LASER FUSION. 20-71

LASER FUSION. 20-72

LASER FUSION: A NEW THERMONUCLEAR POWER CONCEPT. 20-73

LASER FUSION: AN OVERVIEW. 20-74

LASER INDUCED CHEMILUMINESCENCE OF BORON TRICHLORIDE/HYDROGEN SULFIDE MIXTURES. 20-75

LASER INDUCED INSTABILITIES AND ANOMALOUS ABSORPTION IN DENSE PLASMAS. 20-76

LASER INITIATED KRYTRON SWITCHED BLUMLEIN STRUCTURE FOR PULSE SELECTION 20-77

LASER ISOTOPE SEPARATION. 20-78

LASER PHASE TRANSITION ANALOGY: APPLICATION TO FIRST ORDER TRANSITIONS. 20-79

LASER PROGRAM AT LASL, JULY 1 - DECEMBER 31, 1974. 20-80

LASER SPECTROSCOPY. 20-81

LASER SYSTEMS FOR HIGH PEAK POWER APPLICATIONS. 20-82

LASERS FOR LASER FUSION. 20-83

LASL 2.5 KILOJOULE CARBON DIOXIDE SHORT PULSE LASER SYSTEM. 20-84

LOS ALAMOS PRESENTATION ON LASER FUSION TO THE JOINT COMMITTEE ON ATOMIC ENERGY, WASHINGTON, DC, MARCH 13, 1976. 20-86

MAGNETIC FIELDS IN LASER PRODUCED PLASMAS. 20-87

MEASUREMENTS OF ALPHA PARTICLES AND PROTONS, PRODUCED FROM LASER FUSION. 20-89

METAL ATOM OXIDATION LASER. 20-90

MICRO-CHANNEL PLATE COLLIMATORS FOR LASER PLASMA DIAGNOSTICS. 20-93

MICROSPHERICAL LASER TARGETS BY CHEMICAL VAPOR DEPOSITION. 20-94

MULTILINE SHORT PULSE AMPLIFICATION AND COMPRESSION IN HIGH GAIN CARBON DIOXIDE LASER AMPLIFIER. 20-99

VAPOR PHASE COATINGS OF METALS AND ORGANICS FOR LASER FUSION TARGET APPLICATIONS. 23-63

LASERS
FLUORINE - HYDROGEN EXPLOSION AND ITS POSSIBLE UTILIZATION IN LARGE CHEMICAL LASERS. 6-9

REVIEW OF SOFT X RAY LASERS USING CHARGE EXCHANGE. 20-133

CAN WE BEAT FLUORINE AND HYDROGEN FOR HYDROGEN FLUORIDE LASERS 20-14

ELECTRICAL REQUIREMENTS OF XENON LASERS. 20-33

EMITTED ELECTRON SPECTRA FROM PLASMAS PRODUCED WITH NEODYMIUM AND CARBON DIOXIDE LASERS 20-36

ANALYSIS OF HOMOPOLAR GENERATORS AND SUPERCONDUCTING INDUCTIVE ENERGY STORAGE SYSTEMS AS POWER SUPPLIES FOR HIGH ENERGY, SPACE BASED LASERS. 20-7

LASERS FOR LASER FUSION. 20-83

MEASUREMENT OF BEAM QUALITY FROM SHORT PULSE CARBON DIOXIDE LASERS. 20-88

METAL ATOM OXIDATION LASERS: A NEW FAMILY OF CHEMICAL LASERS. 20-91

METHODS TO REDUCE THE EFFECTS OF SELF LASING AND TARGET REFLECTIONS IN CARBON DIOXIDE LASERS. 20-92

MIXTURE STABILITY IN HIGH POWER PULSED HYDROGEN - FLUORINE CHEMICAL LASERS. 20-95

LASING
METHODS TO REDUCE THE EFFECTS OF SELF LASING AND TARGET REFLECTIONS IN CARBON DIOXIDE LASERS. 20-92

LASL.
LASL NIOBIUM3GERMANIUM CONDUCTOR DEVELOPMENT, AUGUST 1 - OCTOBER 31, 1975. 8-23

LASL NIOBIUM3GERMANIUM CONDUCTOR DEVELOPMENT, MAY 1 - JULY 31, 1975. 8-24

PROGRESS REPORT. USERDA-DAT DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JULY 1 THROUGH SEPTEMBER 30, 1974. 8-38

SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, APRIL 1 THROUGH SEPTEMBER 30, 1974. 8-46

SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, JANUARY 1 - MARCH 31, 1975. 8-47

SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, OCTOBER 1 - DECEMBER 31, 1974. 8-48

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, APRIL 1 - JUNE 30, 1975. 8-58

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JANUARY 1 - MARCH 31, 1975. 8-59

USERDA DIVISION OF ELECTRIC POWER TRANSMISSION AND DISTRIBUTION DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1974. 8-60

RESULTS FROM THE LASL IMPLOSION HEATING EXPERIMENT. 10-114

LASL CONTROLLED THERMONUCLEAR RESEARCH PROGRAM, JANUARY - DECEMBER 1974. 10-70

LASL REVERSED FIELD PINCH PROGRAM PLAN. 10-71

GEOTHERMAL ENERGY PROJECTS AT LASL. 11-20

PROGRESS OF THE LASL DRY HOT ROCK GEOTHERMAL ENERGY PROJECT. 11-42

SOLID EARTH GEOSCIENCES RESEARCH ACTIVITIES AT LASL, JANUARY 1 - JUNE 30, 1975. 11-53

SOLID EARTH GEOSCIENCES RESEARCH ACTIVITIES AT LASL, JULY 1 - DECEMBER 31, 1974. 11-54

AEROSOL RESEARCH AND DEVELOPMENT RELATED TO HEALTH HAZARD ANALYSIS. LASL PROJECT R-038, APRIL 1 THROUGH JUNE 30, 1972. 17-1

DEVELOPMENT OF AIR SAMPLING TECHNIQUES, LASL PROJECT R-059, NIOSH-IA 74-10, APRIL 1 - SEPTEMBER 30, 1974. 17-13

EVALUATION OF METHODS FOR THE DETERMINATION OF MERCURY. LASL PROJECT R-060 QUARTERLY REPORT, APRIL 1 THROUGH JUNE 30, 1972. 17-27

WASTE MANAGEMENT AND SAFETY CONSIDERATIONS FOR FUTURE LASL D+D (DECONTAMINATION AND DECOMMISSIONING) PROJECTS. 17-62

LASL CALCULATIONS OF LOW ALTITUDE FIREBALLS USING THE ICED ALE METHOD. 18-21

OPTICAL QUALITY STUDY OF THE LASL CARBON DIOXIDE LASER AMPLIFIER SYSTEM. 20-111

LASER FUSION EXPERIMENTS AT LOS ALAMOS. PART 2: THE LASL CARBON DIOXIDE SHORT PULSE OSCILLATOR - AMPLIFIER SYSTEM. 20-70

LASER PROGRAM AT LASL, JULY 1 - DECEMBER 31, 1974. 20-80

LASL 2.5 KILOJOULE CARBON DIOXIDE SHORT PULSE LASER SYSTEM. 20-84

COMPUTING AT LASL: PERSPECTIVES, POLICIES, AND PLANS. 21-24

RESEARCH AND DEVELOPMENT ON GRAPHITE AND GRAPHITE MATRIX COMPOSITES AT LASL. 23-49

PERFORMANCE OF THE LASL Q3D SPECTROMETER AND HELIX DETECTOR SYSTEM. 25-157

POLARIZATION PROGRAM AT LASL. 25-176

NONDESTRUCTIVE ASSAY OF INVENTORY VERIFICATION SAMPLES AT THE LASL VAN DE GRAAFF SMALL SAMPLE ASSAY STATION. 26-13

LASL ADVANCED PLUTONIUM LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL PROGRAM PUBLICATIONS. 28-21

LASL PANEL ON TACTICAL NUCLEAR WARFARE. REPORT OF THE THIRD MEETING, MAY 14-15, 1974. 30-39

MONTHLY STATUS REPORT OF LASL ROVER PROGRAM FOR PERIOD ENDING DECEMBER 20, 1962. 30-50

PACER PROGRAM. FY 1974 LASL ACTIVITY. REFERENCES. 30-57

PUBLICATIONS OF LASL RESEARCH 1974. 30-68

QUARTERLY PROGRESS REPORT OF LASL ROVER PROGRAM FOR THE PERIOD ENDING NOVEMBER 30, 1972. 30-69

STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR FOUR MONTH PERIOD ENDING JULY 20, 1962. 30-86

LASL-H7
RADIOCHEMICAL ANALYTICAL RESULTS OF NAEG (NEVADA APPLIED ECOLOGY GROUP) SAMPLES BY LASL-H7. 17-48

LATITUDE
GRADIENTS OF SOLAR PROTONS IN THE HIGH LATITUDE MAGNETOTAIL AND THE CONVECTION ELECTRIC FIELD. 1-11

LATTICE
POTENTIAL CONSTANTS OF POTASSIUM ZINC TETRACYANIDE IN THE CRYSTAL LATTICE. 4-50

B LYMPHOCYTE ACTIVATION AND LATTICE FORMATION. 5-9

ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 1. PHASE BOUNDARY, THERMODYNAMICS AND LATTICE PARAMETER. 9-1

RADIATION EFFECTS ON THE LATTICE CONSTANTS OF SINGLE CRYSTAL ALUMINUM DIOXIDE. 9-19

SPIN LATTICE RELAXATION IN AN AM(XN) SYSTEM: APPLICATION TO CARBON -13 RELAXATION IN ENRICHED MOLECULES. 14-11

STATIONARY NON-EQUILIBRIUM PROPERTIES OF A QUANTUM MECHANICAL LATTICE WITH SELF CONSISTENT RESERVOIRS. 27-16

STATIONARY NONEQUILIBRIUM PROPERTIES OF A QUANTUM MECHANICAL LATTICE WITH SELF CONSISTENT RESERVOIRS. 27-17

LATTICE DYNAMICS AND STRUCTURAL PROPERTIES OF SOLID NITROGEN. 29-4

LAUNCH
SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE II: SOLID PROPELLANT FIRE. 17-52

SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE III: FSA (FUEL SPHERE ASSEMBLY) IMPACTS. 17-53

LAUNDRY
LAUNDRY DECONTAMINATION STUDIES AT LOS ALAMOS. 30-40

LAVES
THERMODYNAMIC PROPERTIES OF THE BINARY LAVES PHASE COMPOUNDS OF PLUTONIUM WITH THE GROUP VIIIA METALS. 7-23

LAWS
STRUCTURE AND SCALING LAWS OF LASER DRIVEN ABLATIVE IMPLOSIONS. 20-144

NUMERICAL METHODS FOR CONSERVATION LAWS. 21-56

LAYER
TRANSIENT CHARGE EXCHANGE EFFECTS IN A NEUTRAL GAS LAYER. 10-151

LCTR
ENERGY DEPOSITION IN A TWO DIMENSIONAL LCTR MODEL. 20-37

LEAD
RELATIVISTIC HARTREE-FOCK COMPTON PROFILES FOR THE RARE GASES AND LEAD. 4-56

PHONON THERMAL CONDUCTIVITY OF SUPERCONDUCTING LEAD - THALLIUM ALLOYS. 8-35

ESTIMATE OF THE (Z-ALPHA)2 - ALPHA -2 VACUUM POLARIZATION TERM IN MUONIC LEAD. 22-13

RADIATIVE CAPTURE GAMMA RAYS FROM THE REACTION LEAD -208 (NEUTRON,GAMMA) LEAD -209 FOR 11 MEV INCIDENT NEUTRONS. 25-192

RADIATIVE CAPTURE GAMMA RAYS FROM THE REACTION LEAD -208 (NEUTRON,GAMMA) LEAD -209 FOR 11 MEV INCIDENT NEUTRONS. 25-192

2P-1H STATES IN LEAD -209 EXCITED BY THE METASTABLE BISMUTH -210 (TRITON, ALPHA) REACTION. 25-5

INELASTIC SCATTERING CROSS SECTIONS OF LEAD AND URANIUM FOR 14 MEV NEUTRONS. 25-99

LEADING
BIOMEDICAL PROGRAM LEADING TO THERAPEUTIC TRIALS OF PION RADIATION THERAPY AT LOS ALAMOS. 5-16

IMPROVEMENT IN OXIDATION RESISTANCE OF THE LEADING EDGE THERMAL PROTECTION FOR A SPACE SHUTTLE. 23-30

LEARNED
WHAT WE HAVE LEARNED ABOUT PLUTONIUM FROM HUMAN DATA. 5-147

LECTURE
NUMERICAL METHODS IN FLUID DYNAMICS. 1974. 4TH INTERNATIONAL CONFERENCE, BOULDER. PROCEEDINGS, LECTURE NOTES IN PHYSICS, V.35. 18-32

LECTURES
LECTURES ON DIVERGENT SERIES. 21-45

LEED
COHERENT INELASTIC ELECTRON SCATTERING IN LEED (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF ARSENIC(0001). 9-5

LENGTH
EXTRACTION OF NEUTRON - NEUTRON SCATTERING LENGTH FROM THE REACTION PI -DEUTERON TO GAMMA NEUTRON - NEUTRON. 22-14

EXTRACTION OF NEUTRON - NEUTRON SCATTERING LENGTH FROM THE REACTION PI -DEUTERON TO GAMMA NEUTRON - NEUTRON. ERRATUM. 22-15

CLUSTER SIZE AND THE RAPIDITY GAP LENGTH DISTRIBUTION. 25-31

LENGTHS
BOND LENGTHS AND BOND STRENGTHS IN COMPOUNDS OF THE 5F ELEMENTS. 6-4

DAMAGE TO LENGTHS OF PRIMACORD BY DETONATION OF NEARBY LENGTHS. 15-3

DAMAGE TO LENGTHS OF PRIMACORD BY DETONATION OF NEARBY LENGTHS. 15-3

MASS NUMBER DEPENDENCE OF THE PION -NUCLEUS SCATTERING LENGTHS. 25-109

LETTER
LETTER. 30-41

LEUKOCYTES
CELL CLASSIFICATION BY LASER LIGHT SCATTERING: IDENTIFICATION AND SEPARATION OF UNSTAINED LEUKOCYTES. 5-19

CLASSIFICATION OF HUMAN LEUKOCYTES BY MULTIANGLE LASER LIGHT SCATTERING IN A FLOW SYSTEM. 5-41

LEVEL
LACK OF SPECIFIC CORRELATION OF THE DEOXYCYTIDINE TRIPHOSPHATE POOL LEVEL WITH RATE OF DNA SYNTHESIS. 5-91

REFINEMENT OF THE CRYSTAL STRUCTURE OF MELAMINE, 2,4,6- TRIAMINO -S- TRIAZINE, USING GENERALIZED SCATTERING FACTORS AT THE OCTUPOLE LEVEL. 9-21

PROTON PICKUP FROM STRONTIUM -86 AND THE RUBIDIUM -85 LEVEL STRUCTURE. 25-185

ENERGY LEVELS AND LEVEL DENSITY IN NEODYMIUM -144. 25-65

MEASUREMENT OF TRANSURANIC SOLID WASTES AT THE 10-NCI/G ACTIVITY LEVEL. 30-46

MEASUREMENT OF TRANSURANIC SOLID WASTES AT THE 10-NCI/G ACTIVITY LEVEL. 30-47

LEVELS
URANIUM TRANSITIONS AND ENERGY LEVELS WHICH MAY BE USEFUL IN ATOMIC PHOTOIONIZATION SCHEMES FOR SEPARATING URANIUM -238 AND URANIUM -235. 2-28

HIGHER ORDER CORRECTIONS TO ENERGY LEVELS OF MUONIC ATOMS. 4-28

ON THE (NU(1)-2NU(2)) FERMI RESONANCE LEVELS IN CARBON DIOXIDE. 4-45

LOW LYING LEVELS OF FIVE NUCLEON SYSTEMS. 25-106

ENERGY LEVELS AND LEVEL DENSITY IN NEODYMIUM -144. 25-65

ENERGY LEVELS IN NEODYMIUM -144. 25-66

EXCITATION ENERGIES OF LEVELS IN ALUMINUM -27 AND SILICON -28. 25-72

LI
ANALYSIS OF A SCORPIUS X-1 X RAY SPECTRUM OBTAINED WITH COOLED SILICON (LI) DETECTORS. 3-3

LIARS
PROBLEM OF THE N LIARS. 21-66

LIBRARIES
TECHNIQUE FOR SIMULTANEOUS ADJUSTMENT OF LARGE NUCLEAR DATA LIBRARIES. 25-215

LICENSING
CONCERNS OF INTERVENORS IN NUCLEAR POWER PLANT LICENSING HEARINGS. 30-14

LICHEN
LICHEN FORAGE INGESTION RATES OF FREE ROAMING CARIBOU ESTIMATED WITH FALLOUT CESIUM -137. 30-42

LIFE
PLUTONIUM: HEALTH IMPLICATIONS FOR MAN. 1974. 2ND LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROCEEDINGS. 5-115

MAMMALIAN CELLS: PROBES AND PROBLEMS. 1973. 1ST LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROCEEDINGS. 5-95

LIFETIME
MUON LIFETIME MEASUREMENTS IN THE ACTINIDE ELEMENTS. 25-124

LIFETIME, SURFACE TENSION, AND IMPURITY EFFECTS IN ELECTRON HOLE CONDENSATION. 27-10

LIFETIME, SURFACE TENSION, AND IMPURITY EFFECTS IN ELECTRON HOLE CONDENSATION. 27-9

LIFETIMES
ENERGY TRANSFER IN PHOTOSYNTHESIS: PIGMENT CONCENTRATION EFFECTS AND FLUORESCENT LIFETIMES. 5-58

FLUORESCENCE LIFETIMES OF ALPHA AND BETA CAROTENES. 5-68

LIFETIMES OF NEGATIVE PARITY STATES OF SCANDIUM -49 BY THE CALCIUM -48(PROTON, GAMMA)SCANDIUM -49 REACTION. 25-102

LIGAND
FOURIER TRANSFORM CARBON -13 MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 2. LIGAND SUBSTITUTION PROCESSES. 7-7

LIGHT
THEORETICAL COLORS FOR CEPHEIDS WITH TRANSFER EFFECTS NOW EVIDENT IN THEIR LIGHT CURVES. 3-45

CELL CLASSIFICATION BY LASER LIGHT SCATTERING: IDENTIFICATION AND SEPARATION OF UNSTAINED LEUKOCYTES. 5-19

CELL CLASSIFICATION BY MULTIANGLE LASER LIGHT SCATTERING IN A FLOW SYSTEM. 5-20

CLASSIFICATION OF HUMAN LEUKOCYTES BY MULTIANGLE LASER LIGHT SCATTERING IN A FLOW SYSTEM. 5-41

FLOW SYSTEM MULTIANGLE LIGHT SCATTERING INSTRUMENT FOR BIOLOGICAL CELL CHARACTERIZATION. 5-66

FLOW SYSTEM MULTIANGLE LIGHT SCATTERING INSTRUMENT FOR CELL CHARACTERIZATION. 5-67

LIGHT ION LINACS FOR MEDICAL APPLICATIONS. 5-93

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13: THE EFFECT OF TEMPERATURE AND LIGHT. 14-1

SCISSION POINT PARAMETERS DETERMINED BY LIGHT PARTICLE EMISSION IN FISSION OF CALIFORNIUM -252 18-13

OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 1. CANTED AND PARALLEL MIRRORS. 20-107

OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 2. PARALLEL MIRRORS, MULTITRAVEL. 20-108

OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 3. ASYMMETRIC CONFOCAL RESONATOR. 20-109

OXYGEN -18 ENRICHMENT PROCESS IN URANIUM OXYFLUORIDE UTILIZING LASER LIGHT. 20-113

(PI-PLUS,PP) REACTION ON SEVERAL LIGHT NUCLEI. 22-1

MEASUREMENT OF THE 0 DEGREE NEUTRON SPECTRA FROM 647 AND 800 MEV PROTON BOMBARDMENT OF LIGHT NUCLEI. 22-27

MODELS BASED ON MULTICHANNEL R-MATRIX THEORY FOR EVALUATING LIGHT ELEMENT REACTIONS. 25-120

PION CHARGE EXCHANGE SCATTERING FROM LIGHT NUCLEI. 25-169

PION SCATTERING FROM LIGHT NUCLEI. 25-173

R-MATRIX ANALYSIS OF THE LIGHT ELEMENT STANDARDS. 25-191

PERFORMANCE OF SELECTED NONDESTRUCTIVE ASSAY TECHNIQUES ON LWR (LIGHT WATER REACTOR) (PLUTONIUM,URANIUM) DIOXIDE AND URANIUM DIOXIDE FUEL. 26-21

LIKELIHOOD
MODELING MAXIMUM LIKELIHOOD ESTIMATION OF AVAILABILITY. 21-46

LIMB
REGULATION OF ADENYLATE CYCLASE ACTIVITY BY CELL SURFACE HYALURONATE IN HUMAN LIMB MESENCHYMAL CELLS IN VITRO. 5-126

LIMIT
LIMIT ON THE PHOTON MASS DEDUCED FROM PIONEER 10 OBSERVATIONS OF JUPITER'S MAGNETIC FIELD. 3-24

SPOT TEST LIMIT OF DETECTION VALUES FOR CARCINOGENIC AROMATIC AMINES AND THEIR HOMOLOGUES AND ANALOGUES. 17-57

SELF INTERACTING, BOSON, QUANTUM, FIELD THEORY AND THE THERMODYNAMIC LIMIT IN D DIMENSIONS. 21-72

LIMIT ON PARITY NONCONSERVATION IN P-NUCLEUS SCATTERING AT 6 GEV/C. 25-103

LIMITED
QUANTUM LIMITED NEAR INFRARED VIDICON CAMERA SYSTEM. 19-17

INDICATIONS OF STRONGLY FLUX LIMITED ELECTRON THERMAL CONDUCTION IN LASER TARGET EXPERIMENTS. 20-55

LIMITED EVALUATION OF THE CORROSION OF URANIUM AND WEAPON ASSOCIATED METALS IN SUBSTITUTE OCEAN WATER. 23-33

LIMITING
LIMITING FLUX PASSAGE TIME IN NARROW SUPERCONDUCTORS. 8-25

LIMITING PERFORMANCE OF STRUCTURAL SYSTEMS. 13-9

LIMITS
DEPENDENCE OF THE SECOND EXPLOSION LIMITS OF HYDROGEN - FLUORINE - OXYGEN -HYDROGEN FLUORIDE MIXTURES ON A HOT ATOM EFFECT. 6-5

CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY, JULY - DECEMBER 1974. 17-6

LINAC
MEDICAL LINAC DESIGN POSSIBILITIES. 5-97

LAMPF PROTON LINAC PERFORMANCE. 22-25

BEAD PERTURBATION MEASUREMENT FOR THE KEK LINAC CAVITY. 23-18

LINACS
LIGHT ION LINACS FOR MEDICAL APPLICATIONS. 5-93

LINE
PARTICLES AND FIELDS IN THE NEIGHBORHOOD OF A MAGNETIC NEUTRAL LINE. 1-19

CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES. 1. AIRBORNE INSTRUMENTATION AND RESULTS. 3-10

CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES. 2. 30 MAY 1965 RESULTS, DECONVOLUTION AND INTERPRETATION. 3-11

OSCILLATOR STRENGTHS FROM LINE ABSORPTION IN A HIGH TEMPERATURE FURNACE. 2. THE (0,0) BAND OF THE B(2)SIGMA(+) -X(2)SIGMA (+) TRANSITION IN CYANOGEN. 4-48

RESONANT LINE AND SATELLITE SPECTRA FROM ONE, TWO, AND THREE ELECTRON IONS IN LASER GENERATED PLASMAS. 4-57

SATELLITE LINE SPECTRA FROM LASER PRODUCED PLASMAS. 4-58

AGE RESPONSE FOR LINE CHO CHINESE HAMSTER CELLS EXPOSED TO X IRRADIATION AND ALPHA PARTICLES FROM PLUTONIUM. 5-1

DNA CONSTANCY IN HETEROPLOIDY AND THE STEM LINE THEORY OF TUMORS. 5-56

ECONOMIC AND SYSTEM ASPECTS OF A SUPERCONDUCTING MAGNETIC ENERGY STORAGE DEVICE AND A DC SUPERCONDUCTING TRANSMISSION LINE. 8-14

INVESTIGATIONS ON POTENTIAL CONDUCTORS FOR A DC SUPERCONDUCTING POWER TRANSMISSION LINE IN A 20 METER TEST BED. 8-21

PROGRESS REPORT. USERDA-DAT DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JULY 1 THROUGH SEPTEMBER 30, 1974. 8-38

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, APRIL 1 - JUNE 30, 1975. 8-58

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JANUARY 1 - MARCH 31, 1975. 8-59

USERDA DIVISION OF ELECTRIC POWER TRANSMISSION AND DISTRIBUTION DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1974. 8-60

STABILITY OF A CLOSED LINE SCYLLAC CONFIGURATION. 10-132

HIGH TEMPERATURE MEASUREMENTS OF THE STARK BROADENED HE-II 4686 ANGSTROM LINE PROFILE. 10-49

DELAY LINE READOUT OF ANODE PLANES IN PROPORTIONAL CHAMBERS. 19-3

X RAY CONTINUUM AND LINE RADIATION FROM PLASMAS PRODUCED BY 10.6 MICROMETER LASER FOCUSED ON FLAT TARGETS. 20-164

AMPLIFICATION OF THE 1.32 MICRON LINE IN NEODYMIUM : YAG. 20-5

HYBRID COMPUTER SIMULATION OF TRANSMISSION LINE CIRCUITS. 21-39

ON LINE MEASUREMENT OF THE ISOTOPIC COMPOSITION OF URANIUM IN URANIUM HEXAFLUORIDE. 26-20

LINEAR
APPLICATIONS OF LINEAR PULSATION THEORY TO THE CEPHEID MASS PROBLEM AND THE DOUBLE MODE CEPHEIDS. 3-4

COMPRESSION AND BONDING OF ICE VII AND AN EMPIRICAL LINEAR EXPRESSION FOR THE ISOTHERMAL COMPRESSION OF SOLIDS. 4-11

ASYMPTOTIC FORM OF PARTITION FUNCTIONS OF LINEAR CHAIN MOLECULES: AN APPLICATION OF RENEWAL THEORY. 4-3

PROSPECTS FOR CONVERTING THORIUM -232 TO URANIUM -233 IN A LINEAR THETA PINCH HYBRID REACTOR (LTPHR) 10-109

SCYLLA IV-P LINEAR THETA PINCH 10-117

CTR APPLICATIONS OF THE HIGH DENSITY LINEAR THETA PINCH 10-15

ENDLOSS FROM A LINEAR THETA PINCH 10-27

ENGINEERING DESIGN OF A LINEAR THETA PINCH HYBRID REACTOR (LTPHR) 10-31

EXPERIMENTAL STUDY OF PLASMA END LOSS FROM A LINEAR THETA PINCH 10-36

HIGH DENSITY LINEAR SYSTEMS FOR FUSION POWER 10-46

LINEAR THETA PINCH AS A 14 NEUTRON SOURCE 10-72

LINEAR THETA PINCH FERF 10-73

LINEAR THETA PINCH NEUTRON SOURCE 10-74

LTPF: A LINEAR THETA PINCH NEUTRON SOURCE 10-75

NUMERICAL STUDIES OF THE LINEAR THETA PINCH 10-99

ISOTHERMAL LINEAR AND VOLUME COMPRESSION OF PENTAERYTHRITOL TETRANITRATE (PETN) TO 10 GPA (100 KBAR) AND THE CALCULATED SHOCK COMPRESSION 15-16

RELATIVISTIC LINEAR THEORY IN THE ABSENCE OF EXTERNAL FIELDS 20-131

LINEAR THEORY OF A COLD RELATIVISTIC BEAM PROPAGATING ALONG AN EXTERNAL MAGNETIC FIELD 20-85

ENGINEERING APPLICATIONS OF ADI (ALTERNATING - DIRECT - IMPLICIT) METHODS TO PIECEWISE LINEAR MULTIDIMENSIONAL HEAT TRANSFER 21-31

LINEAR DISCONTINUOUS FINITE ELEMENT SCHEME IN TIME DEPENDENT TRANSPORT CALCULATIONS. 24-13

DESIGN STUDIES OF HEAVY ION LINEAR ACCELERATORS CONSTRUCTED OF INDEPENDENTLY PHASED SPIRAL RESONATORS. 27-3

LINER
EXPLODING LINER INITIATED DENSE Z PINCH. 10-37

LINES
IDENTIFICATION OF SOLAR FLARE IRON(XVIII) TO IRON(XXIII) EMISSION LINES FROM 2S(N)2P(K)-2S(N-1)2P(K+1) TRANSITIONS 3-21

DENSITY SENSITIVE LINES OF HIGHLY IONIZED IRON 4-13

INSTRUMENTATION OPERATING EXPERIENCE ON LAMPF MAIN BEAM LINES 22-21

OPERATING EXPERIENCE WITH LAMPF MAIN BEAM LINES INSTRUMENTATION AND CONTROL SYSTEM. 22-36

LIQUID
EMF'S ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM: BARE ELECTRODE EFFECTS, USE OF N UNEQUAL TO 2. PREMONITORY PHENOMENA AND LIQUID STRUCTURE IN GOLD -CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS 7-5

OPERATING EXPERIENCE WITH A LIQUID HYDROGEN FUELED VEHICLE. 6-34

POOL BOILING HEAT TRANSFER TO LIQUID HELIUM AND LIQUID NITROGEN IN A NEARLY ZERO GRAVITY ENVIRONMENT. 8-36

THERMAL BEHAVIOR OF ORDERED LIQUID HELIUM -3. 8-54

THIN WINDOWS FOR GASEOUS AND LIQUID TARGETS: AN OPTIMIZATION PROCEDURE. 8-56

VERY LOW TEMPERATURE PROPERTIES OF LIQUID HELIUM -3. 8-61

CHEMICAL CORROSION OF MOLYBDENUM AND TUNGSTEN IN LIQUID BASALT, TUFF, AND GRANITE WITH APPLICATION TO SUBTERRENE PENETRATORS. 11-7

EXPERIENCE RELATED TO THE SAFETY OF ADVANCED LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL ELEMENTS. 17-28

SHOCK COMPRESSION OF LIQUID AMMONIA. 18-42

STRENGTHENING OF LIQUID SINTERED TUNGSTEN ALLOYS. 23-58

CP POLARIZATION OF NEGATIVE MUONS IN LIQUID HELIUM. 25-46

LASL ADVANCED PLUTONIUM LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL PROGRAM PUBLICATIONS. 28-21

CLADDING OVALITIES IN ADVANCED LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL ELEMENTS. 28-6

CONSEQUENCES OF SODIUM BOND LOSS FROM AN LMFBR (LIQUID METAL FUELED BREEDER REACTOR) CARBIDE FUEL ELEMENT 28-6

EFFECT OF ATMOSPHERIC LIQUID WATER ON ATOMIC BOMBS 30-20

LIQUIDS
HUGONIOT DATA FOR SEVERAL BENZENE RING LIQUIDS 18-18

LITERATURE
EFFECTS OF RADIATION ON LUBRICANTS AND OTHER MATERIALS: A SURVEY OF CLASSIFIED LITERATURE, 1960-55 30-22

LITHIUM
ANALYTICAL METHODS FOR LITHIUM HYDRIDE. 7-2

EVALUATION OF LITHIUM BORATE AS A 5000 R DOSIMETER 5-59

PHONON DRIVEN PHASE CHANGE IN CESIUM LITHIUM CHROMIUM HEXACYANIDE 9-19

USE OF LITHIUM (DEUTERON,N*UTRON) NEUTRONS FOR SIMULATION OF RADIATION EFFECTS IN FUSION REACTORS 10-154

DEPENDENCE OF LITHIUM DRIFTED GERMANIUM DETECTOR EFFICIENCY SLOPE ON SOURCE TO DETECTOR DISTANCE 19-4

FABRICATION OF LITHIUM DEUTERIUM (0.5) TRITIUM (0.5) MICROSPHERES FOR USE AS LASER FUSION TARGETS 20-43

PION CHARGE EXCHANGE SCATTERING FROM LITHIUM -7, BORON -10, AND CARBON -12 23-170

STUDY OF THE (TRITON,PHOTON) REACTIONS ON HELIUM -4, LITHIUM -6, LITHIUM -7 AND BERYLLIUM -9 23-211

TEST OF THE GENERALIZED PAULI PRINCIPLE AND OF SUPERMULTIPLET SYMMETRY IN THE REACTIONS TRITON + BERYLLIUM -9 TO LITHIUM -8 + HELIUM -6, LITHIUM -6(*0+) + HELIUM -6 23-217

TOTAL NEUTRON CROSS SECTIONS OF HELIUM -3, HELIUM -4, LITHIUM -6, LITHIUM -7 IN THE MEV RANGE. 23-225

CHARGE INDEPENDENCE IN THE MASS 6 SYSTEM AS OBSERVED IN THE LITHIUM -6 (TRITON, HELIUM -3)HELIUM -6(0+) AND LITHIUM -6 (TRITON,TRITON) LITHIUM -6 (3.56) REACTIONS. 23-29

LITHOTHERMODYNAMICS
VISCOUS MELT FLOW AND THERMAL ENERGY TRANSFER FOR A ROCK MELTING PENETRATOR: LITHOTHERMODYNAMICS 11-61

LIVES
HALF LIVES OF XENON -129M, XENON -131M, XENON -133M, XENON -133G, AND XENON -135G 25-10

LMFBR
EXPERIENCE RELATED TO THE SAFETY OF ADVANCED LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL ELEMENTS. 17-28

LASL ADVANCED PLUTONIUM LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL PROGRAM PUBLICATIONS. 28-21

CLADDING OVALITIES IN ADVANCED LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL ELEMENTS. 28-6

CONSEQUENCES OF SODIUM BOND LOSS FROM AN LMFBR (LIQUID METAL FUELED BREEDER REACTOR) CARBIDE FUEL ELEMENT 28-6

LMFBRS
FURTHER CONSIDERATIONS ON THE LOF-DRIVEN TOP ACCIDENT FOR LMFBRS. 28-15

LOADED
ONE DIMENSIONAL CALCULATIONS OF SHOCK LOADED POLYCRYSTALLINE BERYLLIUM. 18-34

EXPERIMENTS ON URANIUM LOSS FROM URANIUM LOADED GRAPHITE AT ELEVATED TEMPERATURES. 23-20

ANALYTICAL CHEMISTRY PROGRAM FOR THE ANALYSIS OF URANIUM LOADED FUEL ELEMENTS. 28-2

FABRICATION OF URANIUM LOADED GRAPHITE FUEL ELEMENTS FOR KIWI-B4/B5 REACTORS. 30-27

LOADS
THREE DIMENSIONAL COMPUTER ANALYSIS OF SHOCK LOADS ON A SIMPLE STRUCTURE. 18-49

RATIONAL DYNAMIC LOADS ANALYSIS FOR AIR CUSHION VEHICLES IN RANDOM SEAWAY OR TERRAIN. 30-76

LOCATED
ENERGY RESPONSE OF TLD BADGES LOCATED ON PERSONNEL. 17-19

LOCATIONS
COMPUTER MODELING OF NEUTRON DOSE AT VARIOUS LOCATIONS WITHIN THE BODY DURING PION RADIOTHERAPY. 8-48

LOGNORMAL DAMAGE FUNCTION WITH OFFSET CIRCULAR NORMAL TARGET AND WEAPON LOCATIONS: MEAN AND OTHER MOMENTS. 30-43

LOCKHEED
COMPARISON OF LOCKHEED AND AFWL BASED ABSORPTION COEFFICIENTS FOR AIR. 4-10

LOF-DRIVEN
FURTHER CONSIDERATIONS ON THE LOF-DRIVEN TOP ACCIDENT FOR LMFBRS. 28-15

LASER
IODINE 131 RELEASE FROM AN HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) DURING THE LOFC (LOSS OF COOLANT) ACCIDENT 17-30

LOGARITHM
COULOMB LOGARITHM CUTOFF 10-13

LOGGING
GEOPHYSICAL LOGGING IN LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST HOLE NO 2 11-19

PLANNING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT 2, PHASE 1 11-41

TESTING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT 2, PHASE 2 11-51

TESTING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT 2, PHASE 3 11-54

LOGIC
EXPLOSIVE LOGIC CIRCUITS 15-17

LOGNORMAL
LOGNORMAL DAMAGE FUNCTION WITH OFFSET CIRCULAR NORMAL TARGET AND WEAPON LOCATIONS MEAN AND OTHER MOMENTS 30-43

LOOP
NUMERICAL CALCULATION OF FLASHING FROM LONG PIPES USING A TWO FLUID MODEL 20-28

PHOTOELECTRIC OBSERVATIONS OF BOMB FLASHES AT A LONG DISTANCE 30-49

LOOP
THE TERMINAL FLOW LOOP FOR A SUPERSONIC GAS TARGET INTENSE NEUTRON SOURCE 1-20

MONITOR DETECTOR FOR THE PRIMARY LOOP OF GAS COOLED REACTORS 20-23

LORENTZ
RELATIVISTIC ROTATION OF AXES UNDER SUCCESSIVE LORENTZ TRANSFORMATIONS 27-15

LOS
PLUTONIUM HEALTH IMPLICATIONS FOR MAN 1974 2ND LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM PROCEEDINGS 5-115

BIOLOGICAL EFFECTS OF THE LOS ALAMOS MESON BEAM ON CELLS IN CULTURE 5-12

BIOMEDICAL PROGRAM LEADING TO THERAPEUTIC TRIALS OF PION RADIATION THERAPY AT LOS ALAMOS 5-14

MAMMALIAN CELLS PROBES AND PROBLEMS 1975 1ST LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM PROCEEDINGS 5-95

LOS ALAMOS PROJECT HANDBOOK CHEMISTRY OF PLUTONIUM 7-13

CONTROLLED THERMONUCLEAR RESEARCH AT THE LOS ALAMOS SCIENTIFIC LABORATORY 20-32

PARTIAL CHRONOLOGY OF Z PINCH STUDIES AT LOS ALAMOS SCIENTIFIC LABORATORY, 1952-1975 20-35

CURRENT STATUS OF THE LOS ALAMOS DRY HOT ROCK GEOTHERMAL ENERGY EXPERIMENT 11-10

FAULT ACTIVITY AND SEISMICITY NEAR THE LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST SITE, JEMEZ MOUNTAINS, NEW MEXICO 11-23

FORCED OSCILLATIONS OF THE LOS ALAMOS SCIENTIFIC LABORATORY'S DRY HOT ROCK GEOTHERMAL RESERVOIR 11-37

GEOPHYSICAL LOGGING IN LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST HOLE NO 2 11-19

SEISMICITY OF LOS ALAMOS AREA ESTIMATED FROM FAULT MOVEMENTS 11-40

WATER SUPPLY AT LOS ALAMOS DURING 1974 11-43

NATIONAL ENERGY OPTIONS, COAL, AND THE LOS ALAMOS SCIENTIFIC LABORATORY 12-12

SOLAR HEATING HANDBOOK FOR LOS ALAMOS 12-20

LOS ALAMOS BUILDING COST INDEX 13-10

TRITIUM HANDLING FACILITIES AT THE LOS ALAMOS SCIENTIFIC LABORATORY 13-18

DESIGN OF VENTILATION AND AIR CLEANING SYSTEMS FOR THE NEW LOS ALAMOS PLUTONIUM FACILITY 17-10

ENVIRONMENTAL SURVEILLANCE AT LOS ALAMOS DURING 1974 17-25

SAFETY CONSIDERATIONS IN THE LASER RESEARCH PROGRAM AT THE LOS ALAMOS SCIENTIFIC LABORATORY 17-61

VENTILATION DESIGN MODIFICATIONS AT LOS ALAMOS SCIENTIFIC LABORATORY MAJOR PLUTONIUM OPERATIONAL AREAS 17-61

LASER FUSION EXPERIMENTS AT LOS ALAMOS PART 2 THE LAST CARBON DIOXIDE SHORT PULSE OSCILLATOR AMPLIFIER SYSTEM 20-30

LOS ALAMOS PRESENTATION ON LASER FUSION TO THE JOINT COMMITTEE ON ATOMIC ENERGY WASHINGTON DC MARCH 13 1975 20-38

COMPUTING SCIENCE AND SERVICES DIVISION OF THE LOS ALAMOS SCIENTIFIC LABORATORY 21-21

COMPUTERIZED IMAGE ANALYSIS AT THE LOS ALAMOS SCIENTIFIC LABORATORY 21-22

COMPUTING FACILITIES AT LOS ALAMOS SCIENTIFIC LABORATORY 21-23

MONTE CARLO CODE DEVELOPMENT IN LOS ALAMOS 21-47

MONTE CARLO CODE DEVELOPMENT IN LOS ALAMOS 21-48

NUMERICAL METHODS LOS ALAMOS TECHNICAL SERIES VOLUME 2 PART 1 CHAPTERS 1-3 21-57

NUMERICAL METHODS LOS ALAMOS TECHNICAL SERIES VOLUME 2 PART 2 CHAPTERS 4-6 21-58

PARTICLE SEPARATION AT LOS ALAMOS 22-17

BIBLIOGRAPHY OF CHEMISTRY AND METALLURGY DOCUMENTS RECEIVED BY THE LOS ALAMOS DOCUMENT ROOM IN THE PERIOD JANUARY 1 1967 TO JANUARY 1 1968 23-3

LOS ALAMOS CRITICAL MASS DATA 24-18

LOS ALAMOS HANDBOOK OF NUCLEAR PHYSICS 25-104

HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE 1974 6TH INTERNATIONAL CONFERENCE SANTA FE AND LOS ALAMOS NM ABSTRACTS OF CONTRIBUTED PAPERS 25-74

MODIFICATION OF THE LOS ALAMOS FAST PLUTONIUM REACTOR 26-22

PLUTONIUM FAST REACTOR AT LOS ALAMOS 26-26

ENERGY RELATED ACTIVITIES AT THE LOS ALAMOS SCIENTIFIC LABORATORY 30-29

LA NOVA DECONTAMINATION STUDIES AT LOS ALAMOS 30-40

LOS ALAMOS SCIENTIFIC LABORATORY PROGRAMS AND CAPABILITIES 30-48

MACHINING AND INSPECTION PROCEDURES USED AT LOS ALAMOS SCIENTIFIC LABORATORY FOR FUEL ELEMENTS OF THE KIWI 1B SERIES 30-63

PROPOSAL TO DESIGNATE CERTAIN LAND AREAS OF THE LOS ALAMOS SCIENTIFIC LABORATORY AS A NATIONAL ENVIRONMENTAL RESEARCH PARK 30-66

STUDY OF THE LOS ALAMOS LABORATORY 30-67

TRANSURANIC SOLID WASTE STUDIES AT LOS ALAMOS 30-92

LOSS
LOSS OF OSMIUM 187 DURING FUSION OF GEOLOGICAL MATERIALS 2-16

HIGH ALTITUDE LOSS CONE AND CHARGE EXCHANGE CALCULATIONS, AND COMPARISON WITH STARFISH DATA 4-26

ULTRAVIOLET CHARGE EXCHANGE ENERGY LOSS PARTITION AS A FUNCTION OF BURST ALTITUDE AND YIELD TO MASS RATIO 4-46

ENERGY LOSS OF A RELATIVISTIC, FINITE ELECTRON BEAM IN A PLASMA 10-29

EXPERIMENTAL STUDY OF PLASMA END LOSS FROM A LINEAR THETA PINCH 10-36

IODINE 131 RELEASE FROM AN HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) DURING THE LOFC (LOSS OF COOLANT) ACCIDENT 17-30

EXPERIMENTS ON URANIUM LOSS FROM URANIUM LOADED GRAPHITE AT ELEVATED TEMPERATURES 23-25

CALCULATED CONSEQUENCES OF SODIUM BOND LOSS FROM ADVANCED FUEL ELEMENTS 28-4

CONSEQUENCES OF SODIUM BOND LOSS FROM AN LMFBR (LIQUID METAL FUELED BREEDER REACTOR) CARBIDE FUEL ELEMENT 28-6

LOW
STANDING WAVES AT LOW MACH NUMBER LAMINAR BOW SHOCKS 1-29

PROPERTIES OF BONE AT LOW TEMPERATURE AND ITS POTENTIAL AS CRYOSTAT SUPPORT MATERIAL 6-30

ANOMALOUS THERMAL PROPERTY BEHAVIOUR OF URANIUM AT LOW TEMPERATURES 8-4

THEORY OF MAGNETIZED ISING ANTIFERROMAGNETS AT LOW TEMPERATURES 8-53

VERY LOW TEMPERATURE PROPERTIES OF LIQUID HELIUM 3 8-61

COHERENT INELASTIC ELECTRON SCATTERING IN LEED (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF ARSENIC(001) 9-5

EFFECTS OF TURBULENCE ON LOW ALTITUDE FIREBALLS AT LATE TIMES 18-12

EASL CALCULATIONS OF LOW ALTITUDE FIREBALLS USING THE ICED ALE METHOD 18-21

LOW ALTITUDE FIREBALL CALCULATIONS 1 COMPARISONS WITH DATA FOR DOMINIC EVENTS 18-23

DESIGN OF THE LAMPF LOW ENERGY PION CHANNEL 22-10

LARGE STRAIN DEFORMATION OF POLYCRYSTALLINE METALS AT LOW HOMOLOGOUS TEMPERATURE 23-32

LOW TEMPERATURE THERMAL AND ELECTRICAL PROPERTIES OF CHEMICAL VAPOR DEPOSITED NIOBIUM-GERMANIUM 23-34

MATRIX MOTION OF LOW VOLUME MATRIX TUNGSTEN-NICKEL-IRON COMPOSITES SINTERED IN A TEMPERATURE GRADIENT 23-37

PROCESS FOR IMPROVING THE LOW TEMPERATURE DUCTILITY OF TUNGSTEN BASE COMPOSITES 23-46

LOW ENERGY PION NUCLEON AND PION DEUTERON INTERACTIONS 25-105

LOW LYING LEVELS OF FIVE NUCLEON SYSTEMS 25-106

RADIOCHEMICAL STUDIES OF SOME LOW AND MEDIUM ENERGY NUCLEAR REACTIONS PRODUCED BY ACCELERATED TRITONS, DEUTERONS, AND PHOTONS 25-190

TRITIUM (DEUTERON, NEUTRON) HELIUM 4 AND TRITIUM (TRITON, NEUTRON) CROSS SECTIONS AT LOW ENERGIES 25-227

CHARACTERISTICS OF LOW Z FRAGMENTS PRODUCED IN THE INTERACTION OF 800 MEV PROTONS WITH URANIUM 25-25

ELASTIC SCATTERING OF LOW ENERGY PIONS ON PROTONS 25-50

EVIDENCE FOR ORDER DISORDER IN PLUTONIUM CARBIDE (0.96) AT LOW TEMPERATURES THROUGH SPECIFIC HEAT MEASUREMENTS 29-2

LOWER
ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY 10-1

POST IMPLOSION ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY 10-104

POST IMPLOSION ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY 10-105

NUMERICAL SIMULATION OF THE LOWER HYBRID DRIFT INSTABILITY 10-80

NUMERICAL SIMULATION OF THE LOWER HYBRID DRIFT INSTABILITY 10-89

LSA
CELL AGE DISTRIBUTION STUDY OF LSA ASCITES LYMPHOMA DURING GROWTH 5-10

LTPF
LTPF A LINEAR THETA PINCH NEUTRON SOURCE 10-75

LTPHR
PROSPECTS FOR CONVERTING THORIUM-232 TO URANIUM-233 IN A LINEAR THETA PINCH HYBRID REACTOR (LTPHR) 10-100

ENGINEERING DESIGN OF A LINEAR THETA PINCH HYBRID REACTOR (LTPHR) 10-31

LUBRICANTS
EFFECTS OF RADIATION ON LUBRICANTS AND OTHER MATERIALS A SURVEY OF CLASSIFIED LITERATURE, 1955-65 20-22

LUNG
LUNG RESPONSE TO LOCALIZED IRRADIATION FROM PLUTONIUM MICROSPHERES 5-94

LUTETIUM
NUCLEAR ORIENTATION STUDY OF THE DECAY OF METASTABLE LUTETIUM-177 25-146

GAMMA RAY ANGULAR DISTRIBUTIONS AND PARITY TESTS IN THE DECAYS OF POLARIZED LUTETIUM-173 A'D LUTETIUM-174M,G 25-85

GAMMA RAY ANGULAR DISTRIBUTIONS AND PARITY TESTS IN THE DECAYS OF POLARIZED LUTETIUM-173 AND LUTETIUM-174M,G 25-85

LWR
PERFORMANCE OF SELECTED NONDESTRUCTIVE ASSAY TECHNIQUES ON LWR (LIGHT WATER REACTOR) (PLUTONIUM,URANIUM) DIOXIDE AND URANIUM DIOXIDE FUEL 30-21

LYING
LOW LYING LEVELS OF FIVE NUCLEON SYSTEMS 25-106

LYMPHOCYTE
B LYMPHOCYTE ACTIVATION AND LATTICE FORMATION 5-9

LYMPHOCYTES
ON SIGNALS GENERATED BY THE BINDING OF MULTIVALENT ANTIGENS TO LYMPHOCYTES 5-108

LYMPHOMA
CELL AGE DISTRIBUTION STUDY OF LSA ASCITES LYMPHOMA DURING GROWTH 5-10

LYRAE
CONVECTION IN RR LYRAE STARS 3-9

LYSIS
PROCEDURE FOR THE RAPID LYSIS OF MAMMALIAN CELLS PRIOR TO ALKALINE SUCROSE DENSITY GRADIENT CENTRIFUGATION 5-119

M
ON THE ROOTS OF NM(+-1) IN THE P-ADIC FIELD Q(P) 21-61

DEUTERON DEUTERON TOTAL SCATTERING CROSS SECTIONS IN THE VELOCITY RANGE 950-2250 M/SEC 25-47

MACH
STANDING WAVES AT LOW MACH NUMBER LAMINAR BOW SHOCKS 1-28

MACH WAVES AND REFLECTED RAREFACTIONS IN ALUMINUM 4-35

REFLECTED RAREFACTIONS, DOUBLE REGULAR REFLECTIONS, AND MACH WAVES IN ALUMINUM AND BERYLLIUM 18-39

MACHINES
ROLE OF FAST DISCHARGING HOMOPOLAR MACHINES IN FUSION DEVICES 10-116

MACHINING
MACHINING AND INSPECTION PROCEDURES USED AT LOS ALAMOS SCIENTIFIC LABORATORY FOR FUEL ELEMENTS OF THE KIWI-B4 SERIES 30-45

MACRO
ASMBL A CDC 7600 MACRO CROSS ASSEMBLER FOR IBM 360 AND DEC PDP-9 AND PDP-15 COMPUTERS 21-9

MACROSCOPIC
FORMAL DERIVATION OF EFFECTIVE SPIN HAMILTONIANS FOR MACROSCOPIC MAGNETIC INSULATOR SYSTEMS 4-24

MACROSCOPIC AND MICROSCOPIC APPROACHES TO NUCLEAR DISSIPATION 25-107

MAGELLANIC
SUGGESTED OBSERVATIONS OF SUPERNOVA REMNANTS IN THE LARGE MAGELLANIC CLOUD 3-43

MAGMA
MAGMA CONTAMINATION WITHIN THE VOLCANIC PILE ORIGIN OF ANDESITE AND DACITE COMMENT AND REPLY 1-26

MAGNESIUM
SPECTROPHOTOMETRIC DETERMINATION OF PLUTONIUM IN SOLUTIONS CONTAINING LARGE AMOUNTS OF ALUMINUM, CALCIUM, AND MAGNESIUM 27-7

MAGNET
QUADRAPOLE MAGNET MEASUREMENT 22-46

VERSATILE MULTIPOLE CORRECTION MAGNET OF RECTANGULAR APERTURE 22-55

MAGNETIC
CRRES 1972 BARIUM PLASMA INJECTION EXPERIMENT AND MAGNETIC STORM OF MARCH 2, 1972 1-16

PARTICLES AND FIELDS IN THE NEIGHBORHOOD OF A MAGNETIC NEUTRAL LINE 1-19

RESPONSE OF THE PLASMA SHEET AT APPROXIMATELY 18 EARTH RADII TO SUDDEN SOUTHWARD TURNINGS OF THE INTERPLANETARY MAGNETIC FIELD 1-23

LIMIT ON THE PHOTON MASS DEDUCED FROM PIONEER 10 OBSERVATIONS OF JUPITER'S MAGNETIC FIELD 3-24

ENTROPY CORRELATION FOR THE 4F AND 5F METALS, RELATION OF ELECTRONIC PROPERTIES TO METALLIC RADII, MAGNETIC TRANSFORMATIONS AND THERMODYNAMICS OF VAPORIZATION 4-21

FORMAL DERIVATION OF EFFECTIVE SPIN HAMILTONIANS FOR MACROSCOPIC MAGNETIC INSULATOR SYSTEMS 4-24

NUCLEAR MAGNETIC RESONANCE OF ROTATIONAL MOBILITY OF MOUSE HEMOGLOBIN LABELED WITH (2- CARBON -13) HISTIDINE 5-106

CARBON -13 FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE STUDIES OF FRACTIONATED CANDIDA UTILIS MEMBRANES 5-17

FOURIER TRANSFORM CARBON -13 MAGNETIC RESONANCE OF AQUEOUS NICKELII - ACETIC ACID SOLUTIONS 2 LIGAND SUBSTITUTION PROCESSES 7-7

10 KA, 300 KJ MAGNETIC ENERGY TRANSFER AND STORAGE (METS) TEST FACILITY 8-1

DEVELOPMENT OF A SUPERCONDUCTING SWITCH FOR MAGNETIC ENERGY STORAGE SYSTEMS. 8-12

ECONOMIC AND SYSTEM ASPECTS OF A SUPERCONDUCTING MAGNETIC ENERGY STORAGE DEVICE AND A DC SUPERCONDUCTING TRANSMISSION LINE 8-14

100 MJ SUPERCONDUCTING MAGNETIC ENERGY STORAGE SYSTEM 8-2

MAGNETIC ENERGY STORAGE FOR ELECTRIC UTILITY APPLICATIONS. 8-26

MAGNETIC ENERGY STORAGE FOR ELECTRIC UTILITY APPLICATIONS. 8-27

MAGNETIC ENERGY STORAGE FOR ELECTRIC UTILITY APPLICATIONS. 8-28

MAGNETIC FIELD MICROPROBE IN SUPERCONDUCTORS CARRYING A CURRENT. 8-29

PROPOSED METS (MAGNETIC ENERGY TRANSFER AND STORAGE) - FTR (FUSION TEST REACTOR) COUPLED SUPERCONDUCTING PROTOTYPE SYSTEM. 8-40

SPONTANEOUS MAGNETIC ORDER IN EXTREMELY DILUTE GOLD - IRON ALLOYS. 8-42

SUPERCONDUCTING MAGNETIC AND INERTIAL ENERGY PULSED POWER SYSTEMS. 8-45

SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, APRIL 1 THROUGH SEPTEMBER 30, 1974. 8-46

SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, JANUARY 1 - MARCH 31, 1975. 8-47

SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, OCTOBER 1 - DECEMBER 31, 1974. 8-48

SUPERCONDUCTING MAGNETIC ENERGY STORAGE. 8-49

TEMPERATURE AND CURRENT DEPENDENCE OF THE MAGNETIC FIELD PROFILES OF NIOBIUM(3)TIN TAPES CARRYING A CURRENT. 8-52

WILL SUPERCONDUCTING MAGNETIC ENERGY STORAGE BE USED ON ELECTRIC UTILITY SYSTEMS 8-62

TRANSIENT FLOW AND EXPANSION OF A PINCH DISCHARGE PLASMA IN SELF INDUCED MAGNETIC FIELDS. 10-152

HYBRID MODEL STUDIES OF MAGNETIC FIELD DIFFUSION IN HIGH BETA PINCHES 10-52

ION COUPLING, ELECTRON HEATING, AND MAGNETIC TURBULENCE FROM PLASMA INSTABILITIES. 10-63

MAGNETIC ENERGY STORAGE SYSTEM USED IN ZT-1. 10-76

MAGNETIC FIELD AND PLASMA DENSITY MEASUREMENTS IN THE STAGED THETA PINCH EXPERIMENT. 10-77

MOTION OF A PLASMA COLUMN IN A PERTURBING MAGNETIC FIELD. 10-82

NUMERICAL MODELING OF MAGNETIC IMPLOSION HEATING AND FIELD DIFFUSION IN PINCHES. 10-87

TRISTAN MAGNETIC SPECTROMETER SYSTEM. 13-17

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13: THE EFFECT OF TEMPERATURE AND LIGHT. 14-1

QUANTITATIVE ANALYSIS OF CARBON - CARBON COUPLING IN THE CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF MOLECULES BIOSYNTHESIZED FROM CARBON -13 ENRICHED PRECURSORS. 14-10

STRUCTURE AND HINDERED MOTION OF BORON (3) HYDROGEN(6) ANIONS IN SOLIDS: AN NMR (NUCLEAR MAGNETIC RESONANCE) STUDY. 14-12

STRUCTURE AND MOTION OF B3H8- ANIONS IN SOLIDS: A BORON AND PROTON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY. 14-13

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF (2- CARBON -13) CARBOXYMETHYLCYTOCHROME C. 14-2

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF WHOLE CELLS AND OF CYTOCHROME C FROM NEUROSOPORA CRASSA GROWN WITH CARBON -13 METHIONINE. 14-3

CARBON -13 NUCLEAR MAGNETIC RESONANCE STUDIES OF ADENOSYLCOBALAMIN AND ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13. 14-4

CARBON -13 PARTIALLY RELAXED FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF ORGANOCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13. 14-5

FOURIER TRANSFORM CARBON -13 NUCLEAR MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 1. EQUILIBRIUM QUOTIENTS FROM RELATIVE ABUNDANCES OF SOLUTION SPECIES. 14-7

INDUCED PARAMAGNETISM IN URANIUM ALLOYS: A BORON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY OF ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND YTTRIUM TETRABORIDE. 14-8

KINETIC PARAMETERS OF CARBONIC ANHYDRASE B BY CARBON -13 NUCLEAR MAGNETIC RESONANCE. 14-9

SYMMETRY AND STABILITY STUDIES OF THERMALLY GENERATED MAGNETIC FIELDS IN LASER PRODUCED PLASMAS. 20-147

LINEAR THEORY OF A COLD RELATIVISTIC BEAM PROPAGATING ALONG AN EXTERNAL MAGNETIC FIELD. 20-86

MAGNETIC FIELDS IN LASER PRODUCED PLASMAS. 20-87

ACTIVE CORRECTIVE ELEMENT FOR HIGH RESOLUTION MAGNETIC OPTICS 22-2

TECHNIQUES FOR HIGH PRECISION MAGNETIC FIELD MAPPING OF LARGE AREA DIPOLES. 22-51

MAGNETIC MOMENT OF NICKEL -57. 25-108

INTRODUCTION TO EXPLOSIVE MAGNETIC FLUX COMPRESSION GENERATORS 27-8

MAGNETICALLY
COMPUTER SIMULATION OF A DEUTERIUM -TRITIUM PELLET MICROEXPLOSION IN A MAGNETICALLY PROTECTED LASER FUSION REACTOR. 20-20

LASER - FUSION ELECTRIC GENERATING STATIONS BASED ON THE MAGNETICALLY PROTECTED REACTOR CAVITY. 20-65

MAGNETISM
MAGNETISM IN NEPTUNIUM BORIDES 23-35

MAGNETISM IN NEPTUNIUM BORIDES. 23-36

MAGNETIZED
THEORY OF MAGNETIZED ISING ANTIFERROMAGNETS AT LOW TEMPERATURES. 8-53

OBLIQUE SHOCKS IN A MAGNETIZED PLASMA. 10-91

MAGNETOHYDRODYNAMIC
MAGNETOHYDRODYNAMIC STABILITY OF A SHARP BOUNDARY MODEL OF TOKAMAK. 10-78

MAGNETOHYDRODYNAMICS
SPECTRUM OF IDEAL MAGNETOHYDRODYNAMICS OF AXISYMMETRIC TOROIDAL SYSTEMS. 10-127

MAGNETOSPHERIC
SOME EVALUATIONS OF MAGNETOSPHERIC ELECTRIC FIELDS AND THEIR EFFECTS. 1-27

TWO BARIUM PLASMA INJECTIONS INTO THE NORTHERN MAGNETOSPHERIC CLEFT 1-30

MAGNETOTAIL
GRADIENTS OF SOLAR PROTONS IN THE HIGH LATITUDE MAGNETOTAIL AND THE CONVECTION ELECTRIC FIELD. 1-11

IMP-6 AND -8 SPACECRAFT POTENTIAL IN THE MAGNETOTAIL. 1-14

MEASURED ELECTRIC FIELD IN THE MAGNETOTAIL. 1-18

PROLONGED EARTHWARD FLOW OF MAGNETOTAIL PLASMA ASSOCIATED WITH STEADY SOUTHWARD IMF. 1-20

RECENT OBSERVATIONS RELATING TO THE DYNAMICS AND ORIGIN OF THE MAGNETOTAIL PLASMA SHEET. 1-22

DISTRIBUTION OF PLASMA SHEET THINNING AND RECOVERY EVENTS IN THE MAGNETOTAIL SURVEYED BY THE IMP-6 SATELLITE. 1-3

MAGNETS
EVALUATION OF PRE-IMPREGNATED RESIN -GLASS SYSTEMS FOR INSULATING SUPERCONDUCTING MAGNETS. 8-16

DIGITAL INTERFACE FOR FIELD REGULATED MAGNETS. 21-30

MAGNIFICATION
MAGNIFICATION RATIOS FOR EXPLOSIVE DRIVEN SHOCKS. 15-17

MAIN
INSTRUMENTATION OPERATING EXPERIENCE ON LAMPF MAIN BEAM LINES. 22-21

OPERATING EXPERIENCE WITH LAMPF MAIN BEAM LINES INSTRUMENTATION AND CONTROL SYSTEM. 22-38

MAINTENANCE
MASSIVE SHIELDING ADAPTED TO REMOTE MAINTENANCE METHODS. 22-28

MAJOR
CHEMICAL ANALYSIS OF NUCLEAR FUELS FOR MAJOR CONSTITUENTS. 2-4

VENTILATION DESIGN MODIFICATIONS AT LOS ALAMOS SCIENTIFIC LABORATORY MAJOR PLUTONIUM OPERATIONAL AREAS. 17-61

ENDF/B-IV FISSION PRODUCT FILES: SUMMARY OF MAJOR NUCLIDE DATA. 25-63

MAMMALIAN
BIOCHEMICAL EVENTS DURING THE MAMMALIAN CELL CYCLE. 5-10

PROCEDURE FOR THE RAPID LYSIS OF MAMMALIAN CELLS PRIOR TO ALKALINE SUCROSE DENSITY GRADIENT CENTRIFUGATION. 5-119

RATE OF DNA SYNTHESIS DURING S PHASE BY MAMMALIAN CELLS IN VITRO. 5-124

STABLE ISOTOPE TECHNOLOGY AND ABNORMAL MAMMALIAN EMBRYONIC DEVELOPMENT. 5-137

SURVIVAL OF CULTURED MAMMALIAN CELLS IRRADIATED AT VARIOUS DEPTHS IN THE LAMPF NEGATIVE PION THERAPY BEAM. 5-139

BIOLOGICAL EFFECTS OF ULTRASOUND ON CULTURED MAMMALIAN CELLS. 5-14

COMPARATIVE EFFECTS OF THREE NITROSUREA DERIVATIVES ON MAMMALIAN CELL CYCLE PROGRESSION. 5-42

DIFFERENTIAL EFFECTS OF TWO CHEMOTHERAPEUTIC AGENTS, STREPTOZOTOCIN AND CHLOROZOTOCIN, ON THE MAMMALIAN CELL CYCLE. 5-54

LASER FLOW MICROPHOTOMETERS FOR RAPID ANALYSIS AND SORTING OF INDIVIDUAL MAMMALIAN CELLS. 5-92

MAMMALIAN CELLS: PROBES AND PROBLEMS. 1973. 1ST LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROCEEDINGS. 5-95

MAMMALS
COMPARATIVE METABOLISM OF RADIONUCLIDES IN MAMMALS. 9. RETENTION OF SELENIUM -75 IN THE MOUSE, RAT, MONKEY, AND DOG. 5-43

MAN
PLUTONIUM AND OTHER ACTINIDE ELEMENTS IN GONADAL TISSUE OF MAN AND ANIMALS. 5-114

PLUTONIUM: HEALTH IMPLICATIONS FOR MAN. 1974. 2ND LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROCEEDINGS 5-115

MAN MADE
MAN-MADE GEOTHERMAL RESERVOIRS. 11-27

MANAGEMENT
MUMPS CODE BUILDING PACKAGE FOR DATA BASE MANAGEMENT. 5-104

WASTE MANAGEMENT AND SAFETY CONSIDERATIONS FOR FUTURE LASL D+D (DECONTAMINATION AND DECOMMISSIONING) PROJECTS. 17-62

MANGANESE
ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF MANGANESE(V) OXYTRICHLORIDE 4-19

CALCULATED AND EXPERIMENTAL ELECTRONIC STRUCTURE OF GASEOUS MANGANESE OXYFLUORIDE AND MANGANESE OXYCHLORIDE. 4-7

MANGANIN
PROJECTILE VELOCITY MEASUREMENTS AND QUARTZ AND MANGANIN GAUGE PRESSURE DETERMINATIONS IN GAS GUN EXPERIMENTS. 15-22

MANIPULATING
GENERAL PURPOSE COMPUTER PROGRAM FOR MANIPULATING AND ANALYZING TABULAR DATA 21-37

MANTLE
MANTLE PROCESSES BENEATH HAWAII. 11-28

MANUAL
MANUAL SAMPLE GRINDER/POLISHER. 19-13

METAL PRODUCTION PROCESS MANUAL: PLUTONIUM PRODUCTION. 23-39

MAPPING
GEOCHEMICAL MAPPING OF THE MOON BY ORBITAL GAMMA RAY SPECTROSCOPY. 3-16

NUMERICAL COMPARISON OF INTEGRAL EQUATIONS OF THE FIRST AND SECOND KIND FOR CONFORMAL MAPPING. 21-54

TECHNIQUES FOR HIGH PRECISION MAGNETIC FIELD MAPPING OF LARGE AREA DIPOLES 22-51

MARCH
L = 6.6 OOSIK BARIUM PLASMA INJECTION EXPERIMENT AND MAGNETIC STORM OF MARCH 7, 1972. 1-16

DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, SEPTEMBER 1, 1974 - MARCH 1, 1975. 5-51

AUTOMATED CANCER CELL SORTING AND ANALYSIS, APRIL 1, 1974 - MARCH 31, 1975. 5-8

SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, JANUARY 1 - MARCH 31, 1975 8-47

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JANUARY 1 - MARCH 31, 1975 8-59

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JANUARY 1 - MARCH 31, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-22

MULTIPLE HEPA FILTER TEST METHODS, JULY 1, 1974 - MARCH 31, 1975. 17-32

PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS FOR THE PERIOD MARCH 1 THROUGH JUNE 30, 1972. 17-37

LOS ALAMOS PRESENTATION ON LASER FUSION TO THE JOINT COMMITTEE ON ATOMIC ENERGY, WASHINGTON, DC, MARCH 13, 1975. 20-86

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, JANUARY 1 - MARCH 31, 1975. 25-15

TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, JANUARY 1 - MARCH 31, 1975. 27-19

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, JANUARY THROUGH MARCH 1975. 28-16

QUARTERLY REPORT, EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, JANUARY 1 THROUGH MARCH 31, 1975. 29-32

E DIVISION QUARTERLY STATUS REPORT, MARCH 1 - MAY 31, 1975. 30-19

MARK-II
FAILURE OBSERVATIONS ON ENCAPSULATED EXPERIMENTAL MARK-II FUEL ELEMENTS IRRADIATED IN EBR-II. 23-21

MARTIAN
WIND FLOW OVER SIMULATED STRUCTURES FOR MARTIAN AND TERRESTRIAL ATMOSPHERES. 18-55

MASS
LIMIT ON THE PHOTON MASS DEDUCED FROM PIONEER 10 OBSERVATIONS OF JUPITER'S MAGNETIC FIELD. 3-24

APPLICATIONS OF LINEAR PULSATION THEORY TO THE CEPHEID MASS PROBLEM AND THE DOUBLE MODE CEPHEIDS. 3-4

SEMIEMPIRICAL ATOMIC MASS FORMULA. 4-61

ULTRAVIOLET CHARGE EXCHANGE ENERGY LOSS PARTITION AS A FUNCTION OF BURST ALTITUDE AND YIELD TO MASS RATIO. 4-68

MASS SPECTRAL INTENSITIES OF INORGANIC FLUORINE CONTAINING COMPOUNDS. 6-10

CHARGED PARTICLE MASS AND ENERGY DEPOSITION IN A THERMONUCLEAR PLASMA. 10-7

EXPERIMENTAL DETERMINATION OF PHOTOFISSION NEUTRON MULTIPLICITIES FOR EIGHT ISOTOPES IN THE MASS RANGE 232 A 239. 16-1

MASS AND KINETIC ENERGY MEASUREMENTS OF FRAGMENTS FROM THE ISOMERIC AND EXCITED STATE FISSION OF AMERICIUM -242. 16-7

APPROXIMATE SPHERICAL BLAST THEORY INCLUDING SOURCE MASS. 20-9

LOS ALAMOS CRITICAL MASS DATA. 24-14

MASS NUMBER DEPENDENCE OF THE PION -NUCLEUS SCATTERING LENGTHS 25-109

MUONIC X RAY MEASUREMENTS OF NUCLEAR CHARGE RADII IN THE MASS 60 REGION. 25-126

NUCLEAR CHARGE DISTRIBUTIONS IN THE MASS 60 REGION: NEW EVIDENCE FROM MUONIC ISOTOPE SHIFT MEASUREMENTS. 25-140

ON-LINE INTERNAL CONVERSION COEFFICIENTS FOR THE DECAYS OF MASS SEPARATED KRYPTON -91 AND RUBIDIUM -91. 25-149

BHABHA FIRST ORDER WAVE EQUATIONS. 2. MASS AND SPIN COMPOSITION, HAMILTONIANS, AND GENERAL SAKATA-TAKETANI REDUCTIONS. 25-21

CHARGE INDEPENDENCE IN THE MASS 6 SYSTEM AS OBSERVED IN THE LITHIUM -6 (TRITON, HELIUM -3)HELIUM -6(0.0) AND LITHIUM -6 (TRITON,TRITON') LITHIUM -6 (3.56) REACTIONS. 25-28

MASSES
GAUGE THEORY AT FINITE TEMPERATURE OF SU(3) SYMMETRY BREAKING AND QUARK MASSES. 25-87

MASSIVE
MASSIVE SHIELDING ADAPTED TO REMOTE MAINTENANCE METHODS. 22-26

MATERIAL
PROPERTIES OF BONE AT LOW TEMPERATURE AND ITS POTENTIAL AS CRYOSTAT SUPPORT MATERIAL. 8-39

REVIEW OF AVAILABLE TECHNOLOGY FOR NARROW BAND TRANSMISSION OF VISUAL MATERIAL. 13-15

ATMOSPHERIC MERCURY SAMPLING MATERIAL AND METHOD. 17-2

FLOW OF INTERPENETRATING MATERIAL PHASES. 18-15

INSTRUMENTATION TECHNIQUES FOR NDA (NONDESTRUCTIVE ANALYSIS) OF FISSILE MATERIAL. 26-10

FUNDAMENTALS OF PASSIVE NONDESTRUCTIVE ASSAY OF FISSIONABLE MATERIAL: LABORATORY WORKBOOK. 26-7

GUIDE TO GAMMA RAY ASSAY FOR NUCLEAR MATERIAL ACCOUNTABILITY. 26-8

EFFECTS OF ADDING HYDROGENOUS MATERIAL TO KIWI REACTORS. 30-21

MATERIALS
LOSS OF OSMIUM DURING FUSION OF GEOLOGICAL MATERIALS. 2-16

SAMPLING MIXTURES OF SOIL AND CARBON -14 LABELED PLANT MATERIALS. 2-24

CHIT: A COST ACCOUNTING PROGRAM FOR POSTIRRADIATION EXAMINATIONS OF FAST BREEDER REACTOR MATERIALS. 2-5

DETERMINATION OF COMBINED SULFUR IN NUCLEAR REACTOR FUEL MATERIALS. 2-8

DETERMINATION OF OXYGEN -17 AND OXYGEN -18 ISOTOPIC ABUNDANCES IN PLUTONIUM -239 MATERIALS BY GAMMA RAY SPECTROMETRY. 2-9

DECOMPOSITION OF CARBON -14 LABELED PLANT MATERIALS IN A GRASSLAND SOIL UNDER FIELD CONDITIONS. 5-49

FIRST WALL MATERIALS PROBLEMS IN FUSION REACTORS 10-39

HEAT TRANSFER MODEL FOR COMPOSITE FIRST WALL MATERIALS IN A PULSED HIGH BETA CONTROLLED THERMONUCLEAR REACTOR (CTR). 10-46

GAS HANDLING SYSTEM FOR STUDIES OF TRITIUM CONTAINING MATERIALS. 13-6

INTERFEROMETRIC MEASUREMENTS OF THE NONLINEAR REFRACTIVE INDEX COEFFICIENT RELATIVE TO CARBON DISULFIDE IN LASER SYSTEM RELATED MATERIALS. 20-57

COMPATIBILITY OF CONTAINER MATERIALS WITH PLUTONIUM DIOXIDE. 23-7

NEUTRON PROPERTIES OF TAMPER MATERIALS. 2 25-133

AUTOMATED NONDESTRUCTIVE ASSAY INSTRUMENTATION FOR NUCLEAR MATERIALS SAFEGUARDS 26-1

NONDESTRUCTIVE ASSAY TECHNOLOGY AND IN-PLANT DYNAMIC MATERIALS CONTROL. 26-15

NONDESTRUCTIVE ASSAY TECHNOLOGY AND IN-PLANT MATERIALS CONTROL DYMAC 26-16

IN-PLANT NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL MATERIALS. 26-9

EFFECTS OF RADIATION ON LUBRICANTS AND OTHER MATERIALS A SURVEY OF CLASSIFIED LITERATURE, 1950-55. 30-22

MATHEMATICS
BOOK REVIEW APPLICABLE FINITE MATHEMATICS, BY D. S. MOORE AND J. W. YACKEL 21-14

APPLIED MATHEMATICS RESEARCH AND VISITOR PROGRAM, JULY 1, 1974 - JUNE 30, 1975 21-7

MATRICES
STUDIES OF PLUTONIUM, AMERICIUM, AND URANIUM IN ENVIRONMENTAL MATRICES. 17-58

SELF SHIELDING OF ELASTIC TRANSFER MATRICES 25-202

MATRIX
MATRIX PHOTO-SPECTROSCOPY OF METAL HEXA FLUORIDES 4-36

MOSSBAUER STUDY OF RARE GAS MATRIX ISOLATED TELLURIUM -125 DIMERS, TELLURIUM -125 HEXAFLUORIDE, AND TELLURIUM -125 TETRACHLORIDE MOLECULES. 4-40

EXISTENCE OF A RESIDUAL NUCLEAR PROTEIN MATRIX IN CULTURED CHINESE HAMSTER CELLS. 5-64

MATRIX MOTION OF LOW VOLUME MATRIX TUNGSTEN/NICKEL/IRON COMPOSITES SINTERED IN A TEMPERATURE GRADIENT 23-37

RESEARCH AND DEVELOPMENT ON GRAPHITE AND GRAPHITE MATRIX COMPOSITES AT LASL. 23-49

BETHE-SALPETER EQUATION FOR NUCLEON -NUCLEON SCATTERING: MATRIX PADE APPROXIMANTS 2 25-20

CONSTRAINTS ON WAVE FUNCTION MODELS OF THE NUCLEON - NUCLEON T MATRIX. 25-37

COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATION FOR THE FULLY OFF SHELL TWO NUCLEON T MATRIX. 25-38

DEPENDENCE OF THE OFF ENERGY SHELL T MATRIX ON THE TOTAL THREE MOMENTUM 25-45

MATTER
NUCLEAR MATTER THEORY FOR PION SCATTERING FROM NUCLEI. 25-144

PHOTON PROPAGATION IN NUCLEAR MATTER AND THE CORRECTION TO THE THEORETICAL NUCLEAR CHARGE DENSITY. 25-164

RELATIVISTIC SECOND ORDER ENERGY IN INFINITE FERMION MATTER. 25-197

THEORY OF THE SCATTERING OF PIONS BY NUCLEAR MATTER. 25-219

MAXIMUM
MODELING MAXIMUM LIKELIHOOD ESTIMATION OF AVAILABILITY. 21-46

MAXWELLIAN
SLOWING-IN DISTRIBUTION OF FAST PARTICLES RELEASED IN MAXWELLIAN PLASMA. 10-125

MEAN, MEAN SQUARE AND MOST PROBABLE MOMENTUM FOR A RELATIVISTIC MAXWELLIAN ENSEMBLE 18-24

MAY
URANIUM TRANSITIONS AND ENERGY LEVELS WHICH MAY BE USEFUL IN ATOMIC PHOTOIONIZATION SCHEMES FOR SEPARATING URANIUM -236 AND URANIUM -235. 2-29

CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES 2. 30 MAY 1965 RESULTS, DECONVOLUTION AND INTERPRETATION 3-11

H-DIVISION PROGRESS REPORT 20 MAY 1949 -20 JUNE 1949 5-70

LASL NIOBIUM(3)GERMANIUM CONDUCTOR DEVELOPMENT, MAY 1 - JULY 31 1975 8-24

MEDIUM ENERGY PHYSICS PROGRAM, MAY 1 -JULY 31, 1975 22-30

SPECIAL REPORT PRESENTED AT MAY MEETING WITH C. A. THOMAS ON FINAL PURIFICATION AND METALLURGY OF 49 23-54

E DIVISION QUARTERLY STATUS REPORT, MARCH 1 - MAY 31, 1975 30-19

LASL PANEL ON TACTICAL NUCLEAR WARFARE REPORT OF THE THIRD MEETING, MAY 14-15, 1974 30-59

MAYBE
MAYBE THE QUARK PARTON MODEL CAN SURVIVE ELECTRON POSITRON ANNIHILATION 25-110

MCCARTYS
ADDITIONAL NOTE ON THE ISOTOPIC COMPOSITION OF STRONTIUM IN MCCARTYS FLOW, VALENCIA COUNTY, NEW MEXICO 11-1

MEAN
ELECTRON BINDING EFFECTS ON SCATTERING CONTRIBUTION TO MONOCHROMATIC AND MEAN OPACITIES 4-14

MEAN, MEAN SQUARE AND MOST PROBABLE MOMENTUM FOR A RELATIVISTIC MAXWELLIAN ENSEMBLE 14-24

MEAN, MEAN SQUARE AND MOST PROBABLE MOMENTUM FOR A RELATIVISTIC MAXWELLIAN ENSEMBLE 18-24

LOGNORMAL DAMAGE FUNCTION WITH OFFSET CIRCULAR NORMAL TARGET AND WEAPON LOCATIONS MEAN AND OTHER MOMENTS 20-43

MEASURE
USE OF ADIABATIC DEMAGNETIZATION TO MEASURE THE ELECTRIC FIELD GRADIENT IN CADMIUM 8-57

MEASURED
MEASURED ELECTRIC FIELD IN THE MAGNETOTAIL 1-18

EFFECT OF REAGENT VIBRATIONAL ENERGY ON MEASURED REACTION RATE CONSTANTS 6-7

MEASUREMENT
DRIFT COMPENSATING INTEGRATOR FOR MEASUREMENT OF TRANSIENT ATOMIC ABSORPTION SIGNALS 2-15

EQUATION OF STATE OF NITROGEN TO 21 KBAR FROM SIMULTANEOUS MEASUREMENT OF P V T AND SOUND VELOCITY 4-22

QUANTITATIVE MEASUREMENT OF SV40 T -ANTIGEN PRODUCTION 5-120

MEASUREMENT OF PLUTONIUM IN HUMANS. 5-96

HETERODYNE INTERFEROMETRY PLASMA DENSITY MEASUREMENT 10-47

ION TEMPERATURE MEASUREMENT BY LASER SCATTERING AT 2.6 MICRONS 10-65

MEASUREMENT OF FARADAY ROTATION IN IHX. 10-79

PHOTOFISSION AND PHOTONEUTRON MEASUREMENT OF URANIUM -238 WITH MONOENERGETIC PHOTONS. 16-11

INSTRUMENTATION. 1974. 20TH INTERNATIONAL SYMPOSIUM, ALBUQUERQUE, NM. PROCEEDINGS, INSTRUMENTATION IN THE AEROSPACE INDUSTRY, V.20. ADVANCES IN TEST MEASUREMENT, V.11. 19-9

EFFECT OF SECONDARY ELECTRONS ON CHARGE COLLECTOR MEASUREMENT OF A LASER PRODUCED PLASMA. 20-20

MEASUREMENT OF BEAM QUALITY FROM SHORT PULSE CARBON DIOXIDE LASERS. 20-68

MEASUREMENT OF THE 0 DEGREE NEUTRON SPECTRA FROM 647 AND 800 MEV PROTON BOMBARDMENT OF LIGHT NUCLEI. 22-27

MEASUREMENT OF THE NEUTRON FLUX GENERATED BY THE LAMPF 800 MEV PROTON BEAM STOP. 22-29

QUADRAPOLE MAGNET MEASUREMENT. 22-46

MEASUREMENT AND INTERPRETATION OF GAMMA(N)/GAMMA(F) FOR ACTINIDE NUCLEI. 25-111

MEASUREMENT OF (NEUTRON,2NEUTRON) AND (NEUTRON,3NEUTRON) CROSS SECTIONS 25-112

MEASUREMENT OF THE CROSS SECTION FOR THE REACTION PB-7 + PROTON TO PB-6 + NEUTRON AT 350 AND 300 MEV 25-113

MEASUREMENT OF THE ENERGY OF THE 6129 KEV GAMMA RAY OF OXYGEN 16 25-114

MEASUREMENT, ANALYSIS, AND IMPLICATIONS OF THE FISSION CROSS SECTIONS OF THE IMPORTANT FISSIONABLE ISOTOPES 25-115

NEW HIGH PRECISION MEASUREMENT OF THE MUONIUM HYPERFINE STRUCTURE INTERVAL DELTA NU 25-137

PRECISION MEASUREMENT OF 1S(1/2) MUONIUM HYPERFINE STRUCTURE INTERVAL DELTA NU 2 RESULTS 25-178

MEAD PERTURBATION MEASUREMENT FOR THE KEK LINAC CAVITY 25-18

AUTOMATED NONDESTRUCTIVE ASSAY SYSTEM FOR THE MEASUREMENT OF IRRADIATED ROVER FUEL 26-2

ON LINE MEASUREMENT OF THE ISOTOPIC COMPOSITION OF URANIUM IN URANIUM HEXAFLUORIDE 26-20

MEASUREMENT OF TRANSURANIC SOLID WASTES AT THE 10-NCI/G ACTIVITY LEVEL 30-46

MEASUREMENT OF TRANSURANIC SOLID WASTES AT THE 10-NCI/G ACTIVITY LEVEL 30-47

CALORIMETER MEASUREMENT OF THE KIWI-A GAMMA RADIATION 30-7

MEASUREMENTS
STRATOSPHERIC HALOGEN MEASUREMENTS 1-29

DIAGNOSES OF DISEASE STATES BY FLUORESCENT MEASUREMENTS UTILIZING SCANNING LASER BEAMS 5-52

ADJACENT CONDUCTOR FIELD CORRECTIONS TO HIGH CRITICAL CURRENT SHORT SAMPLE MEASUREMENTS 8-3

PLASMA TEMPERATURE MEASUREMENTS ON THE ZT-1 PINCH 10-103

STABILITY AND TEMPERATURE MEASUREMENTS ON ZT-1 10-131

HIGH TEMPERATURE MEASUREMENTS OF THE STARK BROADENED HE-II 4686 ANGSTROM LINE PROFILE 10-49

IMPLOSION MEASUREMENTS IN A HIGH VOLTAGE, LARGE DIAMETER, MEDIUM DENSITY THETA PINCH 10-57

ION TEMPERATURE MEASUREMENTS ON THE ZT-1 REVERSED FIELD PINCH 10-66

MAGNETIC FIELD AND PLASMA DENSITY MEASUREMENTS IN THE STAGED THETA PINCH EXPERIMENT 10-77

NEW AND MORE ACCURATE METHOD FOR THE DIRECT MEASUREMENTS OF EARTH TEMPERATURE GRADIENTS IN DEEP BOREHOLES 11-33

TEMPERATURE MEASUREMENTS IN THE PRECAMBRIAN SECTION OF GEOTHERMAL TEST HOLE NO.2 11-56

PROJECTILE VELOCITY MEASUREMENTS AND QUARTZ AND MANGANIN GAUGE PRESSURE DETERMINATIONS IN GAS GUN EXPERIMENTS 15-22

PHOTOFISSION MEASUREMENTS WITH MONOENERGETIC PHOTONS 16-12

MASS AND KINETIC ENERGY MEASUREMENTS OF FRAGMENTS FROM THE ISOMERIC AND EXCITED STATE FISSION OF AMERICIUM -242 16-7

MEASUREMENTS OF GAMMA-F/GAMMA-N USING DIRECT REACTION FISSION TECHNIQUES 16-8

BACKSCATTER MEASUREMENTS FROM LASER PRODUCED PLASMAS AT 10.6 MICRONS 20-10

PEAK IRRADIANCE MEASUREMENTS ON A 10.6, 1 NS, CARBON DIOXIDE LASER 20-115

INTERFEROMETRIC MEASUREMENTS OF THE NONLINEAR REFRACTIVE INDEX COEFFICIENT RELATIVE TO CARBON DISULFIDE IN LASER SYSTEM RELATED MATERIALS. 20-57

MEASUREMENTS OF ALPHA PARTICLES AND PROTONS, PRODUCED FROM LASER FUSION. 20-89

MUON LIFETIME MEASUREMENTS IN THE ACTINIDE ELEMENTS. 25-124

MUONIC X RAY MEASUREMENTS OF NUCLEAR CHARGE RADII IN THE MASS 60 REGION 25-126

NUCLEAR CHARGE DISTRIBUTIONS IN THE MASS 60 REGION: NEW EVIDENCE FROM MUONIC ISOTOPE SHIFT MEASUREMENTS. 25-140

POLARIZATION MEASUREMENTS AND OPTICAL MODEL POTENTIAL FOR TRITONS. 25-175

PROTON - PROTON ANALYZING POWER MEASUREMENTS AT 16 MEV. 25-182

PROTON - PROTON ASYMMETRY MEASUREMENTS AT 16.000 MEV. 25-183

SPECTRUM AND SHIELDING MEASUREMENTS AND CALCULATIONS OF NEUTRONS PRODUCED BY 800 MEV PROTONS 25-208

NEUTRON MEASUREMENTS OF URANIUM -234 ISOTOPIC ABUNDANCE IN URANIUM HEXAFLUORIDE SAMPLES. 26-11

RECENT DEVELOPMENTS IN THE DISSOLUTION AND AUTOMATED ANALYSIS OF PLUTONIUM AND URANIUM FOR SAFEGUARDS MEASUREMENTS 26-23

DO'S AND DONT'S OF NONDESTRUCTIVE ASSAY MEASUREMENTS 26-6

BENCHMARK DOPPLER MEASUREMENTS USING A HYBRID STATIC/DYNAMIC HEATING TECHNIQUE 28-3

EVIDENCE FOR ORDER DISORDER IN PLUTONIUM CARBIDE (0.80) AT LOW TEMPERATURES THROUGH SPECIFIC HEAT MEASUREMENTS 29-2

INTEGRAL NEUTRON AND GAMMA DOSE MEASUREMENTS ON KIWI A THREE 30-33

JULY 16TH NUCLEAR EXPLOSION BLAST MEASUREMENTS WITH CONDENSER GAUGES 30-35

KIWI B1A GAMMA DOSE RATE MEASUREMENTS 30-38

POSSIBLE DETECTION OF ATOMIC BOMB EXPLOSION BY PRESSURE MEASUREMENTS AT THE ANTIPODES 30-63

RADIOCHEMICAL MEASUREMENTS ON KIWI-A PRIME SUMMARY REPORT 30-73

RADIOCHEMICAL MEASUREMENTS ON KIWI-A3 30-74

RADIOCHEMICAL MEASUREMENTS ON KIWI-TNT 30-75

MEASURING
ACOUSTIC MEASURING SYSTEM FOR DETERMINING THE BREAKING STRENGTH OF MICROBALLOONS 20-2

MEAT
RAPID DIGESTION PROCESS FOR DETERMINATION OF TRICHINELLAE IN MEAT 5-122

MECHANICAL
COHERENT MULTIPLE PHOTON PUMPING OF SIMPLE QUANTUM MECHANICAL SYSTEMS 20-16

INTERACTIVE GRAPHICS SYSTEM FOR MECHANICAL DRAFTING AND DESIGN 21-42

MECHANICAL PROPERTIES OF PLUTONIUM -238 DIOXIDE 23-38

STATIONARY NON-EQUILIBRIUM PROPERTIES OF A QUANTUM MECHANICAL LATTICE WITH SELF CONSISTENT RESERVOIRS 27-16

STATIONARY NONEQUILIBRIUM PROPERTIES OF A QUANTUM MECHANICAL LATTICE WITH SELF CONSISTENT RESERVOIRS 27-17

MECHANISM
MECHANISM AND TYPES OF EXPLOSIVE BEHAVIOR IN HYDROGEN - FLUORINE SYSTEMS 6-11

FOCAL MECHANISM OF THE DULCE, NEW MEXICO, EARTHQUAKE ON JANUARY 23, 1966. 11-16

MECHANISM OF CALDERA FORMING ASH BLAST ERUPTIONS. 11-29

MECHANISM OF HEAVY ION REACTIONS AND THE PRODUCTION OF SUPERHEAVY NUCLEI 25-116

MEDIATED
CELL CYCLE SPECIFIC CHANGES IN ORGANIZATION OF CHROMATIN DETECTED BY POLYANION MEDIATED CHROMATIN DECONDENSATION. 5-27

MEDICAL
RADIOLOGICAL HEALTH IN INDUSTRIAL MEDICAL PRACTICE. 5-121

SPALLATION CROSS SECTIONS AND THE LAMPF MEDICAL RADIOISOTOPE PROGRAM. 5-135

LIGHT ION LINACS FOR MEDICAL APPLICATIONS. 5-93

MEDICAL LINAC DESIGN POSSIBILITIES. 5-97

MEDICAL RADIOISOTOPES FROM LAMPF: STRONTIUM -82 - RUBIDIUM -82 PRODUCTION, RECOVERY, AND BIOMEDICAL GENERATOR. 5-98

MEDICINE
STRONTIUM -82 - RUBIDIUM -82 ISOTOPE GENERATOR FOR USE IN NUCLEAR MEDICINE. 5-138

MEDIUM
POROSITY OF THE INTERSTELLAR MEDIUM. 3-34

IMPLOSION MEASUREMENTS IN A HIGH VOLTAGE, LARGE DIAMETER, MEDIUM DENSITY THETA PINCH. 10-57

MEDIUM ENERGY PHYSICS PROGRAM, FEBRUARY 1 - APRIL 30, 1975. 22-29

MEDIUM ENERGY PHYSICS PROGRAM, MAY 1 -JULY 31, 1975. 22-30

QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1975. 22-47

QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1974. 22-48

NEUTRON PRODUCTION AT 0 DEGREES FROM THE REACTION PROTON - PROTON TO NEUTRON -PROTON - PI(+) AT THE MEDIUM ENERGIES. 25-132

RADIOCHEMICAL STUDIES OF SOME LOW AND MEDIUM ENERGY NUCLEAR REACTIONS PRODUCED BY ACCELERATED TRITONS, DEUTERONS, AND PROTONS. 25-194

SOME TOPICS CONCERNING NEUTRON - NEUTRON AND NEUTRON - DEUTERON EXPERIMENTS AT MEDIUM ENERGY. 25-206

SCALING OF A BLAST FROM ONE MEDIUM TO ANOTHER. 30-81

MELAMINE
REFINEMENT OF THE CRYSTAL STRUCTURE OF MELAMINE, 2,4,6- TRIAMINO -S- TRIAZINE, USING GENERALIZED SCATTERING FACTORS AT THE OCTUPOLE LEVEL. 9-21

MELT
VISCOUS MELT FLOW AND THERMAL ENERGY TRANSFER FOR A ROCK MELTING PENETRATOR: LITHOTHERMODYNAMICS. 11-61

ELEVATED TEMPERATURE STRENGTHENING OF MELT GROWN SAPPHIRE BY ALLOYING 23-19

MELTING
MELTING AND COHESION IN F ELECTRON METALS. 4-37

MELTING PROPERTIES AND SOUND VELOCITY OF NITROGEN TO 21 KILOBARS 4-38

MELTING PROPERTIES AND ULTRASONIC VELOCITY OF NITROGEN TO 20 KBAR 4-39

PETROGRAPHY AND CHEMISTRY OF MINERALS AND GLASS IN ROCKS PARTIALLY FUSED BY ROCK MELTING DRILLS 11-38

RAPID EXCAVATION BY ROCK MELTING 11-45

REVIEW OF GEOTHERMAL WELL TECHNOLOGY AND THE POTENTIAL APPLICATIONS OF SUBTERRENE ROCK MELTING DEVICES. 11-46

ROCK MELTING HOLE PRODUCTION SYSTEMS FOR EXPLORATORY AND PRODUCTION GEOTHERMAL ENERGY WELLS. 11-47

ROCK MELTING TECHNOLOGY AND GEOTHERMAL DRILLING. 11-48

CHARACTERIZATION OF ROCK MELTS AND GLASSES FORMED BY EARTH MELTING SUBTERRENES 11-6

VISCOUS MELT FLOW AND THERMAL ENERGY TRANSFER FOR A ROCK MELTING PENETRATOR: LITHOTHERMODYNAMICS. 11-61

FREEZING AND MELTING DEUTERIUM IN MICROBALLOONS 20-45

MELTS
CHARACTERIZATION OF ROCK MELTS AND GLASSES FORMED BY EARTH MELTING SUBTERRENES. 11-6

MEMBRANE
TRANSFER TECHNIQUE FOR ELECTRON MICROSCOPY OF MEMBRANE FILTER SAMPLES. 17-60

MEMBRANES
CARBON -13 FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE STUDIES OF FRACTIONATED CANDIDA UTILIS MEMBRANES 5-17

MERCAPTIDE
CARBON DISULFIDE INSERTION REACTIONS WITH COPPER(I) MERCAPTIDE COMPLEXES. 7-1

MERCURY
DEVELOPMENT OF A MULTISTAGE AIR SAMPLER FOR MERCURY. 17-12

ATMOSPHERIC MERCURY SAMPLING MATERIAL AND METHOD. 17-2

EVALUATION OF METHODS FOR THE DETERMINATION OF MERCURY. LASL PROJECT R-060 QUARTERLY REPORT, APRIL 1 THROUGH JUNE 30, 1972. 17-27

MESENCHYMAL
REGULATION OF ADENYLATE CYCLASE ACTIVITY BY CELL SURFACE HYALURONATE IN HUMAN LIMB MESENCHYMAL CELLS IN VITRO. 5-126

MESH
CALCULATING THREE DIMENSIONAL FLUID FLOWS AT ALL SPEEDS WITH AN EULERIAN-LAGRANGIAN COMPUTING MESH. 18-3

THREE DIMENSIONAL MESH GENERATOR FOR FINITE ELEMENT COMPUTER CODES. 21-81

COARSE MESH REBALANCE METHODS COMPATIBLE WITH THE SPHERICAL HARMONIC FICTITIOUS SOURCE IN NEUTRON TRANSPORT CALCULATIONS. 24-6

MESIC
IN VIVO TISSUE ANALYSIS USING MU MESIC X RAYS. 5-79

RECENT EXPERIMENTAL RESULTS OF THE MESIC CHEMISTRY PROGRAM AT LAMPF. 22-50

MESON
BIOLOGICAL EFFECTS OF THE LOS ALAMOS MESON BEAM ON CELLS IN CULTURE 5-13

BIOMEDICAL APPLICATIONS OF THE CLINTON P. ANDERSON MESON PHYSICS FACILITY 5-15

MESON RADIOBIOLOGY AND THERAPY 7-99

HEATING BY SECONDARY PARTICLES AT MESON FACTORIES 22-17

MESON - THEORETIC POTENTIALS AND THE HYPERTRITON - A REPLY 22-[illegible]

PI - MESON ABSORPTION ON THE DEUTERON 22-[illegible]

CLINTON P. ANDERSON MESON PHYSICS FACILITY RADIOISOTOPE PROGRAM 22-[illegible]

MESON EXCHANGE CURRENTS IN NEUTRON - PROTON BREMSSTRAHLUNG 25-117

MESONIC
EXCHANGE EFFECTS FROM WEAK RADIATIVE MESONIC TRANSITIONS IN PARITY VIOLATING NUCLEAR PROCESSES 25-71

MESONS
ATOMIC CAPTURE OF NEGATIVE MESONS - THE FUZZY FERMI TELLER MODEL 4-5

USE OF MESONS FOR TISSUE CHEMICAL ANALYSIS 5-146

METABOLISM
COMPARATIVE METABOLISM OF RADIONUCLIDES IN MAMMALS - I. RETENTION OF SELENIUM -75 IN THE MOUSE, RAT, MONKEY, AND DOG 5-6[illegible]

METAL
MATRIX PHOTOSPECTROSCOPY OF METAL HEXAFLUORIDES 4-[illegible]

REDUCTIVE SYNTHESES OF TRANSITION METAL FLUORIDE COMPOUNDS - THE SYNTHESIS OF RHENIUM, OSMIUM AND IRIDIUM PENTAFLUORIDES AND TETRAFLUORIDES 7-[illegible]

CHEMICAL EQUILIBRIA IN HOT AIR WITH MOISTURE, SALT, AND VAPORIZED METAL CONTAMINANTS 7-[illegible]

SYSTEM FOR STUDYING THE INITIAL STAGES OF GAS - METAL REACTIONS 7-[illegible]

FUSION WELDING OF THIN METAL FOILS [illegible]

EXPERIENCE RELATED TO THE SAFETY OF ADVANCED LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL ELEMENTS 17-[illegible]

TEMPERATURE DEPENDENT ORDINARY AND THERMAL DIFFUSION OF TRITIUM THROUGH METAL BARRIERS 20-151

METAL ATOM OXIDATION LASER 20-90

METAL ATOM OXIDATION LASERS - A NEW FAMILY OF CHEMICAL LASERS 20-91

METAL PRODUCTION PROCESS MANUAL - PLUTONIUM PRODUCTION 23-39

SPALLING OF METAL PLATES 23-52

ELECTRIC FIELD GRADIENT IN CADMIUM METAL AND THE DECAY OF METASTABLE CADMIUM -115 25-61

LASL ADVANCED PLUTONIUM LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL PROGRAM PUBLICATIONS 28-21

CLADDING OVALITIES IN ADVANCED LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL ELEMENTS. 28-6

CONSEQUENCES OF SODIUM BOND LOSS FROM AN LMFBR (LIQUID METAL FUELED BREEDER REACTOR) CARBIDE FUEL ELEMENT 28-8

METALLIC
ENTROPY CORRELATION FOR THE 4F AND 5F METALS: RELATION OF ELECTRONIC PROPERTIES TO METALLIC RADII, MAGNETIC TRANSFORMATIONS AND THERMODYNAMICS OF VAPORIZATION. 4-21

HIGH DENSITY METALS AND METALLIC COMPOSITES FOR IMPROVED FRAGMENTATION SUBMUNITIONS. 23-27

METALLURGY
BIBLIOGRAPHY OF CHEMISTRY AND METALLURGY DOCUMENTS RECEIVED BY THE LOS ALAMOS DOCUMENT ROOM IN THE PERIOD JANUARY 1, 1947 TO JANUARY 1, 1948. 23-2

SPECIAL REPORT PRESENTED AT JULY MEETING WITH C. A. THOMAS ON FINAL PURIFICATION AND METALLURGY OF 49. 23-53

SPECIAL REPORT PRESENTED AT MAY MEETING WITH C. A. THOMAS ON FINAL PURIFICATION AND METALLURGY OF 49. 23-54

METALS
ELECTRON CONFIGURATIONS AND BONDING IN THE EARLY ACTINIDE METALS. 4-15

ENTROPY CORRELATION FOR THE 4F AND 5F METALS: RELATION OF ELECTRONIC PROPERTIES TO METALLIC RADII, MAGNETIC TRANSFORMATIONS AND THERMODYNAMICS OF VAPORIZATION. 4-21

MELTING AND COHESION IN F ELECTRON METALS. 4-37

THERMODYNAMIC PROPERTIES OF THE BINARY LAVES PHASE COMPOUNDS OF PLUTONIUM WITH THE GROUP VIIIA METALS. 7-23

INFLUENCE OF METALS ON THE THERMAL DECOMPOSITION OF S TRIAMINOTRINITROBENZENE (TATB) 15-15

HIGH DENSITY METALS AND METALLIC COMPOSITES FOR IMPROVED FRAGMENTATION SUBMUNITIONS 23-27

HIGH RATE PHYSICAL VAPOR DEPOSITION OF REFRACTORY METALS 23-29

LARGE STRAIN DEFORMATION OF POLYCRYSTALLINE METALS AT LOW HOMOLOGOUS TEMPERATURE 23-32

LIMITED EVALUATION OF THE CORROSION OF URANIUM AND WEAPON ASSOCIATED METALS IN SUBSTITUTE OCEAN WATER 23-33

VAPOR PHASE COATINGS OF METALS AND ORGANICS FOR LASER FUSION TARGET APPLICATIONS 23-63

METASTABLE
DISSOCIATIVE EXCITATION CHANNELS IN THE INTERACTION OF ARGON(1P 0,2) AND HELIUM (2,3,S) METASTABLE ATOMS WITH METHANE, ETHYLENE, ACETYLENE, AND BENZENE 6-6

METASTABLE FCC PLUTONIUM - CERIUM SOLID SOLUTIONS 23-40

NUCLEAR ORIENTATION STUDY OF THE DECAY OF METASTABLE LUTETIUM 177 25-146

SPIN STATES IN LEAD 209 EXCITED BY THE METASTABLE BISMUTH 210 (TRITON, ALPHA) REACTION 25-5

ELECTRIC FIELD GRADIENT IN CADMIUM METAL AND THE DECAY OF METASTABLE CADMIUM 115 25-85

METER
INVESTIGATIONS ON POTENTIAL CONDUCTORS FOR A DC SUPERCONDUCTING POWER TRANSMISSION LINE IN A 20 METER TEST BED 8-21

EXPERIMENTAL STUDY OF AREA WAVES IN THE 8 METER SCYLLAC FEEDBACK SECTOR 16-35

TIME OF FLIGHT NEUTRON SPECTROSCOPY USING APPROXIMATELY 20 METER FLIGHT PATHS TO A NUCLEAR DEVICE 25-223

METHANE
DISSOCIATIVE EXCITATION CHANNELS IN THE INTERACTION OF ARGON(1P 0,2) AND HELIUM (2,3,S) METASTABLE ATOMS WITH METHANE, ETHYLENE, ACETYLENE, AND BENZENE 6-6

METHANES
HEAVY METHANES AS ATMOSPHERIC TRACERS 1-13

METHIONINE
CARBON 13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF WHOLE CELLS AND OF CYTOCHROME C FROM NEUROSOPORA CRASSA GROWN WITH CARBON 13 METHIONINE 14-3

METHOD
DETERMINATION OF OXYGEN IN PLUTONIUM BY THE CAPILLARY TRAP METHOD 2-10

MICRO COMBUSTION METHOD FOR THE DETERMINATION OF CARBON 2-17

METHOD FOR DETECTION OF TRICHINELLAE 5-100

SYSTEMATIC AND GRAPHICAL METHOD FOR GENERATING THE KINETIC EQUATIONS GOVERNING THE GROWTH OF AGGREGATES 6-16

NEW AND MORE ACCURATE METHOD FOR THE DIRECT MEASUREMENTS OF EARTH TEMPERATURE GRADIENTS IN DEEP BOREHOLES. 11-33

APPARATUS AND METHOD FOR LARGE TUNNEL EXCAVATION IN HARD ROCK 11-4

CONTACT ELECTRICAL METHOD OF STUDYING IMPLOSION 15-2

ATMOSPHERIC MERCURY SAMPLING MATERIAL AND METHOD. 17-2

FIREBALL CALCULATIONS WITH THE SN METHOD 18-14

LASL CALCULATIONS OF LOW ALTITUDE FIREBALLS USING THE ICED ALE METHOD 18-21

NUMERICAL METHOD FOR STUDYING THE CIRCULATION PATTERNS OF A FLUID IN A CAVITY 18-30

THREE DIMENSIONAL MULTIBURST SIMULATION USING THE ICED ALE METHOD 18-50

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 1. X RAY METHOD. 20-102

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 2. PHOTONUCLEAR (DEUTERIUM (GAMMA,NEUTRON)) METHOD. 20-103

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 3. ELASTIC SCATTERING METHOD 20-104

MONTE CARLO METHOD FOR PROBLEMS OF HIERARCHICAL INFERENCE. 21-49

ANALYSIS OF CAVITY STABILITY BY THE FINITE ELEMENT METHOD. 21-5

PARTICLE TRANSPORT SIMULATION WITH THE MONTE CARLO METHOD 21-63

NEW METHOD FOR COATING MICROSPHERES WITH ZIRCONIUM CARBIDE AND ZIRCONIUM CARBIDE -CARBON GRADED COATS. 23-41

NEW METHOD FOR COATING MICROSPHERES WITH ZIRCONIUM CARBIDE AND ZIRCONIUM CARBIDE -CARBON GRADED COATS 23-42

METHOD OF CHARACTERISTICS FOR THE TRANSPORT EQUATION SOLUTION 24-15

FAST NUCLEON CAPTURE AS A METHOD FOR INVESTIGATION OF GIANT QUADRUPOLE RESONANCES 25-78

METHODOLOGY
CROSS SECTION METHODOLOGY IN SIMMER. 25-39

METHODS
ANALYTICAL METHODS FOR LITHIUM HYDRIDE. 2-2

PHYSICAL METHODS FOR RAPID ON-LINE DETECTION OF TRICHINELLA IN PORK 5-112

PREPARATIVE METHODS FOR ANALYSIS OF DNA, PROTEIN AND NUCLEAR TO CYTOPLASMIC RATIOS IN NORMAL AND TUMOR CELL POPULATIONS. 5-118

COMPARISON OF THE COMBINED PHASE SPACE TRAJECTORY AND QUASICLASSICAL TRAJECTORY METHODS IN THE STUDY OF REACTION DYANMICS HYDROGEN + IODINE(2) AND HYDROGEN + BROMINE(2) 6-4

DEVELOPMENT OF SAMPLING AND ANALYTICAL METHODS FOR CARCINOGENS, JULY 1 DECEMBER 31, 1974 17-14

EVALUATION OF METHODS FOR THE DETERMINATION OF MERCURY LASL PROJECT R-060 QUARTERLY REPORT, APRIL 1 THROUGH JUNE 30, 1972 17-27

MULTIPLE HEPA FILTER TEST METHODS, JULY 1, 1974 MARCH 31, 1975 17-32

MULTI-PHASE FLOW METHODS FOR REACTOR SAFETY ANALYSIS 18-25

NUMERICAL METHODS FOR SOLUTION OF THE INTEGRAL EQUATIONS OF MULTI-DIMENSIONAL RADIATION TRANSPORT. 18-31

NUMERICAL METHODS IN FLUID DYNAMICS 1974 4TH INTERNATIONAL CONFERENCE, BOULDER, PROCEEDINGS, LECTURE NOTES IN PHYSICS, V 42 18-32

OPTICAL METHODS IN ENERGY CONVERSION, SPIE SEMINAR IN DEPTH, ROCHESTER, 23-25 JUNE 1975 20-110

METHODS TO REDUCE THE EFFECTS OF SELF LASING AND TARGET REFLECTIONS IN CARBON DIOXIDE LASERS 20-92

CONVERGENCE ESTIMATES FOR GALERKIN METHODS FOR VARIABLE COEFFICIENT INITIAL VALUE PROBLEMS. 21-27

ALTERNATING DIRECTION GALERKIN METHODS FOR PARABOLIC AND HYPERBOLIC PROBLEMS ON RECTANGULAR POLYGONS. 21-3

ENGINEERING APPLICATIONS OF ADI (ALTERNATING - DIRECT - IMPLICIT) METHODS TO PIECEWISE LINEAR MULTIDIMENSIONAL HEAT TRANSFER. 21-31

NUMERICAL METHODS FOR CONSERVATION LAWS 21-56

NUMERICAL METHODS, LOS ALAMOS TECHNICAL SERIES, VOLUME 2, PART 1, CHAPTERS 1-5. 21-57

NUMERICAL METHODS, LOS ALAMOS TECHNICAL SERIES, VOLUME 2, PART 2, CHAPTERS 6-8. 21-58

SPLINE-GALERKIN METHODS FOR INITIAL VALUE PROBLEMS WITH VARIABLE COEFFICIENTS 21-75

MASSIVE SHIELDING ADAPTED TO REMOTE MAINTENANCE METHODS. 22-26

CHEMICAL METHODS FOR PREPARATION OF COMBINATIONS OF MOLYBDENUM, TUNGSTEN, AND URANIUM OXIDES. 23-4

COARSE MESH RE-BALANCE METHODS COMPATIBLE WITH THE SPHERICAL HARMONIC FICTITIOUS SOURCE IN NEUTRON TRANSPORT CALCULATIONS. 24-6

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS, JULY 1 - SEPTEMBER 30, 1975. 28-11

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS, APRIL - JUNE 30, 1975, AND FY 1975. 28-12

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, JANUARY 1 THROUGH MARCH 31, 1975. 28-32

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-33

METRICATION
METRICATION: INTRODUCTION AND COMMENTARY. 30-48

METS
10 KA, 300 KJ MAGNETIC ENERGY TRANSFER AND STORAGE (METS) TEST FACILITY. 8-1

PROPOSED METS (MAGNETIC ENERGY TRANSFER AND STORAGE) - FTR (FUSION TEST REACTOR) COUPLED SUPERCONDUCTING PROTOTYPE SYSTEM. 8-40

MEV
ISOLATION OF STRONTIUM -82 FROM 200-600 MEV PROTON IRRADIATED MOLYBDENUM TARGETS FOR BIOMEDICAL APPLICATIONS. 5-85

FRAGMENT PRODUCTION IN THE INTERACTION OF 800 MEV PROTONS WITH URANIUM. 22-16

MEASUREMENT OF THE 0 DEGREE NEUTRON SPECTRA FROM 647 AND 800 MEV PROTON BOMBARDMENT OF LIGHT NUCLEI. 22-27

MEASUREMENT OF THE NEUTRON FLUX GENERATED BY THE LAMPF 800 MEV PROTON BEAM STOP. 22-28

REACTION CARBON -13 (PI-PLUS, PI-ZERO) NITROGEN -13 (G.S.) FOR E(PI-PLUS) = 30 TO 190 MEV. 22-49

CALCULATED NEUTRON SPECTRUM FROM 800 MEV PROTONS INCIDENT ON A COPPER BEAM STOP. 22-6

EFFECTS OF REACTOR NEUTRON, 14 MEV NEUTRON AND ENERGETIC CHARGED PARTICLE IRRADIATIONS ON THE CRITICAL CURRENT IN NIOBIUM(3)TIN. 23-16

HIGH ENERGY PROTON SIMULATION OF 14 MEV NEUTRON DAMAGE IN ALUMINUM OXIDE. 23-28

ANGULAR DISTRIBUTIONS IN THE RADIATIVE CAPTURE OF 14 MEV NEUTRONS. 25-11

MEASUREMENT OF THE CROSS SECTION FOR THE REACTION PI(-) + PROTON TO PI(+) + NEUTRON AT 350 AND 300 MEV. 25-113

MODEL OF THE PROTON PLUS PROTON GOES TO PROTON PLUS NEUTRON PLUS POSITIVE PION REACTION AT 766 MEV. 25-119

MORE 14 MEV, NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS. 25-122

NEUTRON SPECTRA FROM PROTON BOMBARDMENT OF DEUTERIUM AT 647 AND 800 MEV. 25-134

PI (PLUS AND MINUS) - HELIUM -4 TOTAL CROSS SECTIONS FROM 50-100 MEV. 25-166

PROTON - PROTON ANALYZING POWER MEASUREMENTS AT 16 MEV. 25-182

PROTON - PROTON ASYMMETRY MEASUREMENTS AT 16,000 MEV. 25-183

RADIATIVE CAPTURE GAMMA RAYS FROM THE REACTION LEAD -208 (NEUTRON,GAMMA) LEAD -209 FOR 11 MEV INCIDENT NEUTRONS. 25-192

SPALLATION OF COPPER BY 190 MEV PIONS AND 349 MEV PROTONS. 25-207

SPECTRUM AND SHIELDING MEASUREMENTS AND CALCULATIONS OF NEUTRONS PRODUCED BY 800 MEV PROTONS. 25-208

TOTAL NEUTRON CROSS SECTIONS OF HELIUM -3, HELIUM -4, LITHIUM -6, LITHIUM -7 IN THE MEV RANGE. 25-225

CALCIUM -40 (NEUTRON,ALPHA) ARGON -37 CROSS SECTION FROM 3 TO 14.7 MEV. 25-23

YTTRIUM -89 (TRITON,PROTON) YTTRIUM -91 REACTION AT E(T) = 20 MEV. 25-231

CHARACTERISTICS OF LOW Z FRAGMENTS PRODUCED IN THE INTERACTION OF 800 MEV PROTONS WITH URANIUM. 25-25

CROSS SECTIONS FOR (NEUTRON,X-NEUTRON) REACTIONS BETWEEN 7.5 AND 28 MEV. 25-41

DIFFERENTIAL CROSS SECTIONS FOR GAMMA RAYS FROM IRON FOR INCIDENT NEUTRONS OF 8.5, 10.0, 12.2, AND 14.2 MEV. 25-49

ELASTIC SCATTERING OF 7-12 MEV TRITONS BY ALPHA PARTICLES. 25-57

ELASTIC SCATTERING OF POSITIVE PIONS BY CARBON AT 147 MEV. 25-59

50 MEV POLARIZED NEUTRON FACILITY INCORPORATING A HIGH PRESSURE TRITIUM GAS TARGET. 25-6

ELECTRON ELASTIC SCATTERING CROSS SECTIONS FROM 1 KEV TO 100 MEV FOR ELEMENTS Z = 1 TO 100. 25-62

ENERGY AND ANGULAR DISTRIBUTION OF NEUTRONS PRODUCED BY 800 MEV PROTON -PROTON COLLISIONS. 25-64

EXPERIMENTAL STUDY OF THE PI+ + DEUTERON TO PROTON + PROTON REACTION AT PION ENERGIES OF 40, 50, AND 60 MEV. 25-77

FISSION CROSS SECTION OF URANIUM -238 IN THE NEIGHBORHOOD OF 7 MEV. 25-80

FORE - AFT ANISOTROPY IN THE RADIATIVE CAPTURE OF 14 MEV NEUTRONS. 25-82

FOURTEEN MEV, NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS FOR SEVERAL ELEMENTS. 25-84

INELASTIC SCATTERING CROSS SECTIONS OF LEAD AND URANIUM FOR 14 MEV NEUTRONS. 25-99

MEXICO
CESIUM -137 ACTIVITY IN A NORMAL NEW MEXICO POPULATION: 1956-1973. 5-33

ADDITIONAL NOTE ON THE ISOTOPIC COMPOSITION OF STRONTIUM IN MCCARTYS FLOW, VALENCIA COUNTY, NEW MEXICO. 11-1

FAULT ACTIVITY AND SEISMICITY NEAR THE LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST SITE, JEMEZ MOUNTAINS, NEW MEXICO. 11-15

FOCAL MECHANISM OF THE DULCE, NEW MEXICO, EARTHQUAKE ON JANUARY 23, 1966. 11-16

PETROLOGY OF DEEP SEATED CUMULATE INCLUSIONS, WEST POTRILLO MOUNTAINS, NEW MEXICO. 11-39

SEISMICITY OF THE NORTHERN RIO GRANDE RIFT ZONE, NEW MEXICO. 11-50

SEISMICITY STUDIES IN NORTHERN NEW MEXICO. 11-51

ENVIRONMENTAL ISSUES RELATED TO ENERGY RESOURCE DEVELOPMENT IN NEW MEXICO. 17-23

ANOMOLOUS LOCAL SNOWSTORM IN NEW MEXICO. 30-3

SELF FLYING ATOMIC BOMBS (NEW MEXICO JUMPING BEANS). 30-82

MHD
MHD SPECTRUM OF DIFFUSE TOKAMAK EQUILIBRIA. 10-80

MHD STABILITY OF THE SCYLLAC CONFIGURATION. 10-81

MHZ
100 MHZ POWER AMPLIFIER DESIGN AND CONTROL FOR A HEAVY ION ACCELERATOR. 27-1

MICE
RETENTION AND EXCRETION OF COBALT -60 IN MICE, RATS, MONKEYS, AND DOGS. 5-128

SOME OBSERVATIONS ON THE COMPARATIVE EFFECTS OF INBREEDING AND WHOLE BODY X RAY EXPOSURE TO SEVENTY GENERATIONS OF MICE. 5-134

MICRO-CHANNEL
INVESTIGATION OF MICRO-CHANNEL PLATES AS PARALLEL BORE ELECTRON COLLIMATORS FOR USE IN A PROXIMITY FOCUSED ULTRA FAST STREAK TUBE. 19-12

MICRO-CHANNEL PLATE AS A PARALLEL BORE COLLIMATOR FOR SOFT X RAY IMAGING. 19-14

MICRO-CHANNEL PLATE COLLIMATORS FOR LASER PLASMA DIAGNOSTICS. 20-93

MICRO COMBUSTION
MICRO-COMBUSTION METHOD FOR THE DETERMINATION OF CARBON. 2-17

MICROBALLOON
PREHEAT EFFECTS ON MICROBALLOON LASER FUSION IMPLOSIONS. 20-119

PREHEAT EFFECTS ON MICROBALLOON LASER FUSION IMPLOSIONS. 20-120

MICROBALLOONS
QUALITY SELECTION OF LASER - FUSION TARGET MICROBALLOONS. 20-126

ACOUSTIC MEASURING SYSTEM FOR DETERMINING THE BREAKING STRENGTH OF MICROBALLOONS. 20-2

EXTERNAL PRESSURIZATION AS A MEANS OF UPGRADING GLASS MICROBALLOONS. 20-42

FREEZING AND MELTING DEUTERIUM IN MICROBALLOONS. 20-45

MICROBRIDGES
OBSERVATION OF STEPS IN THE MICROWAVE IMPEDANCE OF SUPERCONDUCTING MICROBRIDGES. 8-33

MICRODOSIMETRY
MICRODOSIMETRY OF NEGATIVE PIONS AT LAMPF. 5-101

MICROEXPLOSION
COMPUTER SIMULATION OF A DEUTERIUM -TRITIUM PELLET MICROEXPLOSION IN A MAGNETICALLY PROTECTED LASER FUSION REACTOR. 20-20

MICROFLUOROMETRIC
FLOW MICROFLUOROMETRIC ANALYSIS OF ISOLATED CHINESE HAMSTER CHROMOSOMES. 5-65

MICROFLUOROMETRY
POPULATION ANALYSIS OF ARRESTED HUMAN DIPLOID FIBROBLASTS BY FLOW MICROFLUOROMETRY 5-116

UNIQUE TECHNIQUES FOR CELL CYCLE ANALYSIS UTILIZING MITHRAMYCIN AND FLOW MICROFLUOROMETRY. 5-144

APPLICATION OF FLOW MICROFLUOROMETRY TO PROBLEMS IN RADIOTHERAPY. 5-5

EVALUATION OF SIX FLUORESCENT PROTEIN STAINS FOR USE IN FLOW MICROFLUOROMETRY. 5-60

MICROMACHINED
DAMAGE THRESHOLDS IN ZINC SELENIDE, A/R COATED SODIUM CHLORIDE AND MICROMACHINED MIRRORS BY 10.6 MICRON MULTIJOULE, NANOSECOND PULSES. 20-21

MICROMETEOROLOGY
URBAN MICROMETEOROLOGY AND INSTRUMENTATION. 30-94

MICROMETER
X RAY CONTINUUM AND LINE RADIATION FROM PLASMAS PRODUCED BY 10.6 MICROMETER LASER FOCUSED ON FLAT TARGETS. 20-164

MICRON
DAMAGE THRESHOLDS IN ZINC SELENIDE, A/R COATED SODIUM CHLORIDE AND MICROMACHINED MIRRORS BY 10.6 MICRON MULTIJOULE, NANOSECOND PULSES. 20-21

AMPLIFICATION OF THE 1.32 MICRON LINE IN NEODYMIUM : YAG. 20-5

MICRONS
ION TEMPERATURE MEASUREMENT BY LASER SCATTERING AT 2.8 MICRONS. 10-65

BACKSCATTER MEASUREMENTS FROM LASER PRODUCED PLASMAS AT 10.6 MICRONS. 20-10

TEMPERATURE DEPENDENT ABSORPTION SPECTRUM OF THE NU(3) BAND OF SULFUR HEXAFLUORIDE AT 10.6 MICRONS. 20-150

MICROPHOTOMETERS
LASER FLOW MICROPHOTOMETERS FOR RAPID ANALYSIS AND SORTING OF INDIVIDUAL MAMMALIAN CELLS. 5-92

MICROPROBE
MAGNETIC FIELD MICROPROBE IN SUPERCONDUCTORS CARRYING A CURRENT. 8-29

MICROSCOPIC
HIGH SPEED OPTICAL ANALYSIS OF MICROSCOPIC PARTICLES. 5-75

MACROSCOPIC AND MICROSCOPIC APPROACHES TO NUCLEAR DISSIPATION. 25-107

MICROSCOPIC THEORY OF NUCLEAR DISSIPATION. 25-118

MICROSCOPY
TRANSFER TECHNIQUE FOR ELECTRON MICROSCOPY OF MEMBRANE FILTER SAMPLES. 17-60

MICROSPHERES
LUNG RESPONSE TO LOCALIZED IRRADIATION FROM PLUTONIUM MICROSPHERES. 5-94

TAMPED THERMONUCLEAR BURN OF DEUTERIUM -TRITIUM MICROSPHERES. 20-149

FABRICATION OF LITHIUM DEUTERIUM (0.5) TRITIUM (0.5) MICROSPHERES FOR USE AS LASER FUSION TARGETS. 20-43

NEW METHOD FOR COATING MICROSPHERES WITH ZIRCONIUM CARBIDE AND ZIRCONIUM CARBIDE -CARBON GRADED COATS. 23-41

NEW METHOD FOR COATING MICROSPHERES WITH ZIRCONIUM CARBIDE AND ZIRCONIUM CARBIDE -CARBON GRADED COATS. 23-42

MICROSPHERICAL
MICROSPHERICAL LASER TARGETS BY CHEMICAL VAPOR DEPOSITION. 20-94

MICROWAVE
OBSERVATION OF STEPS IN THE MICROWAVE IMPEDANCE OF SUPERCONDUCTING MICROBRIDGES. 8-33

MIDDLE
SOLAR WIND DEVELOPMENT IN THE MIDDLE CORONA. 3-40

MIGRATION
RELEVANCE OF NUCLIDE MIGRATION AT OKLO TO THE PROBLEM OF GEOLOGIC STORAGE OF RADIOACTIVE WASTE. 30-78

MILITARY
NUCLEAR WEAPONS, THEIR ROLE IN U. S. POLITICAL AND MILITARY POSTURE, AND AN EXAMPLE. 30-52

MILL
COPPER MINING AND MILL ANALYSES BY GAMMA RAYS FROM CAPTURE OF CALIFORNIUM -252 NEUTRONS. 2-6

MILLIMETERS
HIGH RESOLUTION Q-BRANCH SPECTRUM FOR CARBON DIOXIDE AT 618 MILLIMETERS. 20-49

MINERALS
PETROGRAPHY AND CHEMISTRY OF MINERALS AND GLASS IN ROCKS PARTIALLY FUSED BY ROCK MELTING DRILLS. 11-38

MINING
COPPER MINING AND MILL ANALYSES BY GAMMA RAYS FROM CAPTURE OF CALIFORNIUM -252 NEUTRONS. 2-6

MINUS
POLARIZED H MINUS SOURCE FOR LAMPF. 21-65

PERFORMANCE OF THE LAMPF H MINUS INJECTOR. 22-39

PI (PLUS AND MINUS) - HELIUM -4 TOTAL CROSS SECTIONS FROM 50-100 MEV. 25-166

MIRRORS
OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 1. CANTED AND PARALLEL MIRRORS. 20-107

OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 2. PARALLEL MIRRORS, MULTITRAVEL. 20-108

DAMAGE THRESHOLDS IN ZINC SELENIDE, A/R COATED SODIUM CHLORIDE AND MICROMACHINED MIRRORS BY 10.6 MICRON MULTIJOULE, NANOSECOND PULSES. 20-21

MISSIONS
PRELIMINARY DESIGN AND PERFORMANCE OF AN ADVANCED GAMMA RAY SPECTROMETER FOR FUTURE ORBITER MISSIONS. 3-35

MITHRAMYCIN
UNIQUE TECHNIQUES FOR CELL CYCLE ANALYSIS UTILIZING MITHRAMYCIN AND FLOW MICROFLUOROMETRY. 5-144

MITIGATION
DISCRETE ORDINATE TO SPHERICAL HARMONIC CONVERSIONS FOR RAY EFFECT MITIGATION IN X-Y GEOMETRY. 24-9

MITOSIS
BIOCHEMISTRY OF G2 AND MITOSIS. 5-11

SEQUENTIAL BIOCHEMICAL EVENTS IN PREPARATION FOR DNA REPLICATION AND MITOSIS. 5-130

MIXED
FAST REACTOR FISSION YIELDS FOR URANIUM -233, URANIUM -235, URANIUM -238, AND PLUTONIUM -239 AND DETERMINATION OF BURNUP IN FAST BREEDER REACTOR MIXED OXIDE FUELS. 2-14

MIXING
ORIGIN OF ANDESITE AND DACITE: EVIDENCE OF MIXING AT GLASS MOUNTAIN IN CALIFORNIA AND OTHER CIRCUM-PACIFIC VOLCANOES. 11-35

TIME DEPENDENT TURBULENT MIXING. 18-51

MIXTURE
MIXTURE STABILITY IN HIGH POWER PULSED HYDROGEN - FLUORINE CHEMICAL LASERS. 20-95

MIXTURES
SAMPLING MIXTURES OF SOIL AND CARBON -14 LABELED PLANT MATERIALS. 2-24

DEPENDENCE OF THE SECOND EXPLOSION LIMITS OF HYDROGEN - FLUORINE - OXYGEN -HYDROGEN FLUORIDE MIXTURES ON A HOT ATOM EFFECT. 6-5

TRANSIENT DYNAMICS OF CHEMICALLY REACTIVE GASEOUS MIXTURES WITH TURBULENCE. 16-52

TIME RESOLVED OUTPUT SPECTRUM FROM A HYDROGEN FLUORIDE LASER USING MIXTURES OF SULFUR HEXAFLUORIDE AND HYDROGEN IODIDE. 20-156

LASER INDUCED CHEMILUMINESCENCE OF BORON TRICHLORIDE/HYDROGEN SULFIDE MIXTURES. 20-75

MJ
100 MJ SUPERCONDUCTING MAGNETIC ENERGY STORAGE SYSTEM. 8-2

MOBILITY
NUCLEAR MAGNETIC RESONANCE OF ROTATIONAL MOBILITY OF MOUSE HEMOGLOBIN LABELED WITH (2- CARBON -13) HISTIDINE. 5-106

MOCKUP
CRITICAL ASSEMBLY MOCKUP STUDIES OF THE PHOEBUS-2 ROVER REACTOR. 30-15

MODE
DOUBLE MODE CEPHEIDS AND U TRA. 3-14

APPLICATIONS OF LINEAR PULSATION THEORY TO THE CEPHEID MASS PROBLEM AND THE DOUBLE MODE CEPHEIDS. 3-4

TOROIDAL MODE STRUCTURE IN THE SCYLLAC FULL TORUS. 10-150

EXPLOITING VECTOR MODE IN A SISD COMPUTER. 21-32

EXPERIMENTAL EVIDENCE FOR THE EXISTENCE OF THE CHARGE EXCHANGE MODE OF GIANT RESONANCES. 25-74

EXPERIMENTAL STUDY OF THE PAIRING MODE OF ELEMENTARY EXCITATIONS. 25-76

MODEL
SOLAR WIND STREAM EVOLUTION AT LARGE HELIOCENTRIC DISTANCES: EXPERIMENTAL DEMONSTRATION AND THE TEST OF A MODEL. 1-26

MODEL COSMIC GAMMA RAY BURST. 3-28

NON-LINEAR RADIATIVE TRANSFER MODEL OF SW ANDROMADAE. 3-20

ATOMIC CAPTURE OF NEGATIVE MESONS: THE FUZZY FERMI-TELLER MODEL. 4-5

R-MATRIX THEORY FOR ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS. 2. ELECTRON - HYDROGEN(2) SCATTERING IN THE STATIC EXCHANGE MODEL. 4-53

ARRESTED AND CYCLING CHO CELLS AS A KINETIC MODEL. 5-6

VLASOV FLUID MODEL WITH ELECTRON PRESSURE. 10-155

DYNAMIC MODEL OF GROSS PLASMA MOTION IN SCYLLAC. 10-22

HEAT TRANSFER MODEL FOR COMPOSITE FIRST WALL MATERIALS IN A PULSED HIGH BETA CONTROLLED THERMONUCLEAR REACTOR (CTR). 10-46

HYBRID - KINETIC MODEL FOR HIGH BETA PLASMAS. 10-51

HYBRID MODEL STUDIES OF MAGNETIC FIELD DIFFUSION IN HIGH BETA PINCHES. 10-52

MAGNETOHYDRODYNAMIC STABILITY OF A SHARP BOUNDARY MODEL OF TOKAMAK. 10-78

GEOTHERMAL RESERVOIR MODELS: CRACK PLANE MODEL. 11-23

MODEL FOR PREDICTING THE REDISTRIBUTION OF PARTICULATE CONTAMINANTS FROM SOIL SURFACES. 11-30

PRELIMINARY REPORT ON LOCAL IMPACT MODEL. 12-15

DISCHARGE FLOW WITH TWO DIMENSIONAL FLUID MODEL ANALYSIS. 18-11

APPLICATION OF A DRIFT - FLUX MODEL TO FLASHING IN STRAIGHT PIPES. 18-2

NUMERICAL CALCULATION OF FLASHING FROM LONG PIPES USING A TWO FIELD MODEL. 18-26

STEADY ABLATION OF LASER TARGETS IN SPHERICAL GEOMETRY. 1. THE MODEL. 20-140

ENERGY DEPOSITION IN A TWO DIMENSIONAL LCTR MODEL. 20-37

MAYBE THE QUARK-PARTON MODEL CAN SURVIVE ELECTRON POSITRON ANNIHILATION. 25-110

MODEL OF THE PROTON PLUS PROTON GOES TO PROTON PLUS NEUTRON PLUS POSITIVE PION REACTION AT 766 MEV. 25-119

OPTICAL MODEL POTENTIALS FOR DEUTERONS, TRITONS AND HELIONS. 25-150

POLARIZATION MEASUREMENTS AND OPTICAL MODEL POTENTIAL FOR TRITONS. 25-175

PROTON - PROTON SCATTERING, THE CHOU-YANG MODEL, AND PROTON FORM FACTORS. 25-184

SEMICLASSICAL MODEL FOR PION PRODUCTION BY NEUTRONS ON NUCLEI. 25-203

SIMPLE OPTICAL MODEL FOR PION - NUCLEUS SCATTERING. 25-205

CHIRAL SYMMETRY AND PION CONDENSATION. 1. MODEL DEPENDENT RESULTS. 25-29

MODEL FOR HEAT CONDUCTION WITH FINITE SIGNAL SPEED. 27-11

FITPI: MODIFICATIONS TO THE OPTICAL MODEL PROGRAM PIRK FOR PARAMETER SEARCHES AND TOTAL CROSS SECTIONS. 29-3

PILOT MODEL: INDUCTION HEATED ROTATING FLUIDIZED BED. 30-61

MODELING
COMPUTER MODELING OF NEUTRON DOSE AT VARIOUS LOCATIONS WITHIN THE BODY DURING PION RADIOTHERAPY. 6-46

NUMERICAL MODELING OF MAGNETIC IMPLOSION HEATING AND FIELD DIFFUSION IN PINCHES. 10-87

MODELING AND HYBRID SIMULATION OF SOLAR ENERGY SYSTEMS. 12-12

RADIATIVE TRANSFER APPROXIMATIONS IN FIREBALL MODELING. 18-38

MODELING MAXIMUM LIKELIHOOD ESTIMATION OF AVAILABILITY. 21-46

ANALYSIS OF FUEL BUNDLE RADIOGRAPHS USING MODELING. 28-1

MODELOCKED
MODELOCKED, MULTILINE PULSED CARBON DIOXIDE OSCILLATOR. 20-96

MODELS
NEUTRON STAR MODELS WITH REALISTIC HIGH DENSITY EQUATIONS OF STATE. 3-28

COMPARISON OF THREE TWO DIMENSIONAL ELECTROSTATIC PLASMA SIMULATION MODELS. 10-8

GEOTHERMAL RESERVOIR MODELS: CRACK PLANE MODEL. 11-23

SIMULATION OF THE TWO STREAM INSTABILITY WITH FOUR NUMERICAL MODELS. 18-47

EFFECTS OF NEUTRON STREAMING AND GEOMETRIC MODELS ON MOLTEN FUEL RECRITICALITY ACCIDENTS. 24-10

EFFECTS OF NEUTRON STREAMING AND GEOMETRIC MODELS ON MOLTEN FUEL RECRITICALITY ACCIDENTS. 24-11

MODELS BASED ON MULTICHANNEL R-MATRIX THEORY FOR EVALUATING LIGHT ELEMENT REACTIONS. 25-120

NUCLEAR MODELS AND DATA FOR GAMMA RAY PRODUCTION. 25-145

CONSTRAINTS ON WAVE FUNCTION MODELS OF THE NUCLEON - NUCLEON T MATRIX. 25-37

MODERATED
REFLECTOR MODERATED CRITICAL ASSEMBLIES. 24-18

MODERATOR
MONTE CARLO STUDIES OF TARGET/MODERATOR CONFIGURATIONS FOR THE WEAPONS NEUTRON RESEARCH FACILITY. 25-121

MODES
STABILITY OF KINK MODES IN HIGH BETA TOKAMAKS. 10-134

STABILITY OF KINK MODES IN HIGH BETA TOKAMAKS. 10-135

MODIFICATION
COOLING TOWER MODIFICATION FOR INTERMITTENT OPERATION. 13-2

STIMULATED DIFFUSION SCATTERING IN IONOSPHERIC MODIFICATION. 20-142

MODIFICATION OF THE LOS ALAMOS FAST PLUTONIUM REACTOR. 28-22

MODIFICATIONS
VENTILATION DESIGN MODIFICATIONS AT LOS ALAMOS SCIENTIFIC LABORATORY MAJOR PLUTONIUM OPERATIONAL AREAS. 17-61

FITPI: MODIFICATIONS TO THE OPTICAL MODEL PROGRAM PIRK FOR PARAMETER SEARCHES AND TOTAL CROSS SECTIONS. 29-3

MODIFIED
MODIFIED REPLICATE PLATING TECHNIQUE FOR USE IN SOMATIC CELL MUTANT SELECTION. 5-102

MODULATED
SHORT RANGE RADIO TELEMETRY FOR ELECTRONIC IDENTIFICATION USING MODULATED RF BACKSCATTER. 19-16

SYSTEM CONTROL FOR THE MODULATED CALIFORNIUM -252 SOURCE SHUFFLER. 26-27

MODULATION
NUMERICAL STUDIES OF THE INTERPLAY BETWEEN SELF PHASE MODULATION AND DISPERSION FOR INTENSE PLANE WAVE LASER PULSES. 20-105

MODULE
SHIFT REGISTER NEUTRON COINCIDENCE MODULE. 26-26

MOISTURE
CHEMICAL EQUILIBRIA IN HOT AIR WITH MOISTURE, SALT, AND VAPORIZED METAL CONTAMINANTS. 7-2

MOISTURE DETECTOR FOR THE PRIMARY LOOP OF GAS COOLED REACTORS. 28-23

MOLDS
COMPUTERIZED INVENTORY/DESIGN SYSTEM FOR GRAPHITE MOLDS. 21-23

MOLECULAR
USE OF TWO ANGLE ELASTIC AND RAMAN SCATTERING TO OBTAIN MOLECULAR DENSITY AND AEROSOL SCATTERING PROFILES. 1-31

MOLECULAR ACTIVATION ANALYSIS. 2-18

MOLECULAR EQUATIONS OF STATE FOR DENSE DUST CLOUDS. 3-27

ISOTOPE EFFECTS IN THE SCHUMANN-RUNGE BANDS OF MOLECULAR OXYGEN. 4-32

QUASICLASSICAL TRAJECTORY STUDY OF THE MOLECULAR BEAM KINETICS OF THE DEUTERIUM ATOM - HYDROGEN HALIDE EXCHANGE REACTION. 6-15

FAST MOLECULAR TRAJECTORY CALCULATIONS BY HYBRID COMPUTATION: A FEASIBILITY STUDY. 6-8

CRYSTAL AND MOLECULAR STRUCTURE OF CHLOROBIS (3-BUTENYLDIPHENYLPHOSPHINO) RHODIUM(I). 9-6

MOLECULE
R-MATRIX THEORY FOR ELECTRON - ATOM AND ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS. 4-52

R-MATRIX THEORY FOR ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS. 2. ELECTRON - HYDROGEN(2) SCATTERING IN THE STATIC EXCHANGE MODEL. 4-53

MOLECULES
ASYMPTOTIC FORM OF PARTITION FUNCTIONS OF LINEAR CHAIN MOLECULES: AN APPLICATION OF RENEWAL THEORY. 4-3

MOSSBAUER STUDY OF RARE GAS MATRIX ISOLATED TELLURIUM -125 DIMERS, TELLURIUM -125 HEXAFLUORIDE, AND TELLURIUM -125 TETRACHLORIDE MOLECULES. 4-40

STATISTICAL THERMODYNAMIC PROPERTIES OF HEXAFLUORIDE MOLECULES. 4-64

STATISTICAL WEIGHTS FOR OCTAHEDRAL SPHERICAL TOP MOLECULES. 4-65

CALCULATIONS ON THE EXCITED STATES OF SMALL MOLECULES. 4-8

INTERACTIONS OF SMALL MOLECULES WITH COPPER(I) PHOSPHINE COMPLEXES. 9-12

INTERACTIONS OF SULFUR CONTAINING SMALL MOLECULES WITH ORGANOPHOSPHINE COPPER(I) COMPLEXES. 9-13

QUANTITATIVE ANALYSIS OF CARBON - CARBON COUPLING IN THE CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF MOLECULES BIOSYNTHESIZED FROM CARBON -13 ENRICHED PRECURSORS. 14-10

SPIN LATTICE RELAXATION IN AN AM(XN) SYSTEM: APPLICATION TO CARBON -13 RELAXATION IN ENRICHED MOLECULES. 14-11

MOLTEN
EMF'S ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM: BARE ELECTRODE EFFECTS, USE OF N UNEQUAL TO 2, PREMONITORY PHENOMENA AND LIQUID STRUCTURE IN GOLD -CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS. 7-5

EFFECTS OF NEUTRON STREAMING AND GEOMETRIC MODELS ON MOLTEN FUEL RECRITICALITY ACCIDENTS. 24-10

EFFECTS OF NEUTRON STREAMING AND GEOMETRIC MODELS ON MOLTEN FUEL RECRITICALITY ACCIDENTS. 24-11

REACTIVITY CHANGES DUE TO BUBBLE GROWTH OR COLLAPSE IN MOLTEN FUEL SYSTEMS. 28-36

MOLYBDENUM
VIBRATIONAL SPECTRUM AND FORCE FIELD OF MOLYBDENUM HEXAFLUORIDE. 4-69

ISOLATION OF STRONTIUM -82 FROM 200-600 MEV PROTON IRRADIATED MOLYBDENUM TARGETS FOR BIOMEDICAL APPLICATIONS. 5-85

CHEMICAL CORROSION OF MOLYBDENUM AND TUNGSTEN IN LIQUID BASALT, TUFF, AND GRANITE WITH APPLICATION TO SUBTERRENE PENETRATORS. 11-7

CHEMICAL METHODS FOR PREPARATION OF COMBINATIONS OF MOLYBDENUM, TUNGSTEN, AND URANIUM OXIDES. 23-4

MOMENT
MAGNETIC MOMENT OF NICKEL -57. 25-108

MOMENTA
CANONICAL MOMENTA AND NUMERICAL INSTABILITIES IN PARTICLE CODES. 10-4

MOMENTS
RELATIVISTIC COMPTON SCATTERING FROM MOVING ELECTRONS AND ANGULAR MOMENTS. 18-40

LOGNORMAL DAMAGE FUNCTION WITH OFFSET CIRCULAR NORMAL TARGET AND WEAPON LOCATIONS: MEAN AND OTHER MOMENTS. 30-43

MOMENTUM
MEAN, MEAN SQUARE AND MOST PROBABLE MOMENTUM FOR A RELATIVISTIC MAXWELLIAN ENSEMBLE. 18-24

ANGULAR MOMENTUM EFFECTS IN THE SPECTRA OF RESIDUAL NUCLEI. 25-12

DEPENDENCE OF THE OFF ENERGY SHELL T MATRIX ON THE TOTAL THREE MOMENTUM. 25-45

MONITOR
MONITOR FOR TRITIUM IN AIR CONTAINING OTHER BETA EMITTERS. 17-31

MONITOR: A VERSATILE REMOTE HANDLING SYSTEM. 22-32

NON-INTERCEPTING POSITION MONITOR FOR THE LAMPF WNR BEAM. 22-33

MONITORING
RESULTS OF X RAY AND OPTICAL MONITORING OF SCORPIUS X-1 IN 1970. 3-39

PASSIVE ELECTRONIC IDENTIFICATION AND TEMPERATURE MONITORING SYSTEM, JULY 1, 1974 JUNE 30, 1975. 5-109

INTRINSICALLY SAFE STRAIN GAGE MONITORING SYSTEM. 19-11

BEAM INTENSITY MONITORING FOR THE EXTERNAL PROTON BEAM AT LAMPF. 22-5

USE OF URANIUM -237 TRACER IN MONITORING PLUTONIUM SCRAP RECOVERY OPERATIONS. 23-62

MONITORS
LAMPF EXPERIMENTAL AREA BEAM CURRENT MONITORS. 22-23

TESTING AND CALIBRATION OF A FARADAY CUP AND OTHER INTENSITY MONITORS FOR THE EXTERNAL PROTON BEAM AT LAMPF. 22-52

MONKEY
COMPARATIVE METABOLISM OF RADIONUCLIDES IN MAMMALS. 9. RETENTION OF SELENIUM -75 IN THE MOUSE, RAT, MONKEY, AND DOG. 5-43

MONKEYS
RECOVERY RATE AND RESIDUAL INJURY IN MONKEYS EXPOSED TO LARGE DOSES OF RADIATION BY FRACTIONATION. 5-125

RETENTION AND EXCRETION OF COBALT -60 IN MICE, RATS, MONKEYS, AND DOGS. 5-128

MONOCHROMATIC
ELECTRON BINDING EFFECTS ON SCATTERING CONTRIBUTION TO MONOCHROMATIC AND MEAN OPACITIES. 4-14

MONOCHROMATIC PHOTON INDUCED THORIUM -232 PHOTONUCLEAR REACTIONS. 16-9

MONOENERGETIC
PHOTOFISSION AND PHOTONEUTRON MEASUREMENT OF URANIUM -238 WITH MONOENERGETIC PHOTONS. 16-11

PHOTOFISSION MEASUREMENTS WITH MONOENERGETIC PHOTONS. 16-12

MONTANE
CESIUM KINETICS IN A MONTANE LAKE ECOSYSTEM. 30-10

MONTE
XPECT: A MONTE CARLO PROGRAM TO PREDICT THE EXPECTED TIME TO NEXT FAILURE IN CONTROLLED THERMONUCLEAR RESEARCH SYSTEMS. 10-156

INVESTIGATION OF PATTERN RECOGNITION TECHNIQUES FOR THE IDENTIFICATION OF SPLITTING SURFACES IN MONTE CARLO PARTICLE TRANSPORT CALCULATIONS. 21-44

MONTE CARLO CODE DEVELOPMENT IN LOS ALAMOS. 21-47

MONTE CARLO CODE DEVELOPMENT IN LOS ALAMOS. 21-48

MONTE CARLO METHOD FOR PROBLEMS OF HIERARCHICAL INFERENCE. 21-49

MONTE CARLO SPLITTING SURFACE IDENTIFICATION BY PATTERN RECOGNITION. 21-50

PARTICLE TRANSPORT SIMULATION WITH THE MONTE CARLO METHOD. 21-63

MONTE CARLO STUDIES OF TARGET/MODERATOR CONFIGURATIONS FOR THE WEAPONS NEUTRON RESEARCH FACILITY. 25-121

NEUTRON MONTE CARLO CALCULATION FOR A 1000 MW PROPULSION REACTOR. 28-24

MONTE CARLO CALCULATION OF THE GAMMA RAY HEATING IN A PHOEBUS 1 NOZZLE FROM CORE SOURCES. 30-49

MONTH
STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR FOUR MONTH PERIOD ENDING JULY 20, 1962. 30-86

MONTHLY
MONTHLY STATUS REPORT OF LASL ROVER PROGRAM FOR PERIOD ENDING DECEMBER 20, 1962. 30-50

MONZO-GRANITE
MONZO-GRANITE ALTERATION IN A HYDROTHERMAL SYSTEM. 11-31

PERMEABILITY OF A MONZO-GRANITE AT ELEVATED TEMPERATURE. 11-37

MOON
GEOCHEMICAL MAPPING OF THE MOON BY ORBITAL GAMMA RAY SPECTROSCOPY. 3-18

MOORE
BOOK REVIEW: APPLICABLE FINITE MATHEMATICS, BY D. S. MOORE AND J. W. YACKEL. 21-14

MORPHOLOGICAL
OPTICAL AND MORPHOLOGICAL CRYSTALLOGRAPHY OF PLUTONIUM COMPOUNDS. 9-16

MOSSBAUER
MOSSBAUER STUDY OF RARE GAS MATRIX ISOLATED TELLURIUM -125 DIMERS, TELLURIUM -125 HEXAFLUORIDE, AND TELLURIUM -125 TETRACHLORIDE MOLECULES. 4-40

MOST
MEAN, MEAN SQUARE AND MOST PROBABLE MOMENTUM FOR A RELATIVISTIC MAXWELLIAN ENSEMBLE. 18-24

MOTION
DYNAMIC MODEL OF GROSS PLASMA MOTION IN SCYLLAC. 10-22

MOTION OF A PLASMA COLUMN IN A PERTURBING MAGNETIC FIELD. 10-82

STRUCTURE AND HINDERED MOTION OF BORON (3) HYDROGEN(8) ANIONS IN SOLIDS: AN NMR (NUCLEAR MAGNETIC RESONANCE) STUDY. 14-12

STRUCTURE AND MOTION OF B3H8- ANIONS IN SOLIDS: A BORON AND PROTON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY. 14-13

MATRIX MOTION OF LOW VOLUME MATRIX TUNGSTEN/NICKEL/IRON COMPOSITES SINTERED IN A TEMPERATURE GRADIENT. 23-37

MOTIONS
COOPERATIVE MOTIONS IN HARD CORE FLUIDS. 18-6

MOUNTAIN
ORIGIN OF ANDESITE AND DACITE: EVIDENCE OF MIXING AT GLASS MOUNTAIN IN CALIFORNIA AND OTHER CIRCUM-PACIFIC VOLCANOES. 11-35

ROCKY MOUNTAIN ENERGY 1974: FLOWS, EMPLOYMENT, PRICES. 12-18

ROCKY MOUNTAIN ENERGY FLOW PATTERNS. 12-19

MOUNTAINS
FAULT ACTIVITY AND SEISMICITY NEAR THE LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST SITE, JEMEZ MOUNTAINS, NEW MEXICO. 11-15

PETROLOGY OF DEEP SEATED CUMULATE INCLUSIONS, WEST POTRILLO MOUNTAINS, NEW MEXICO. 11-39

MOUSE
NUCLEAR MAGNETIC RESONANCE OF ROTATIONAL MOBILITY OF MOUSE HEMOGLOBIN LABELED WITH (2- CARBON -13) HISTIDINE. 5-106

TRANSFER OF MOUSE IGG2 PRODUCTION BY IGM BEARING SPLEEN CELLS SEPARATED BY A FLUORESCENCE ACTIVATED CELL SORTER. 5-141

COMPARATIVE METABOLISM OF RADIONUCLIDES IN MAMMALS. 9. RETENTION OF SELENIUM -75 IN THE MOUSE, RAT, MONKEY, AND DOG. 5-43

MOVEMENTS
SEISMICITY OF LOS ALAMOS AREA ESTIMATED FROM FAULT MOVEMENTS. 11-49

MRC
EXTENSION OF THE MRC MULTIBURST. 18-13

MT
MT. BAKER 11 APRIL TO 1 JULY 1975. 11-32

MU
IN VIVO TISSUE ANALYSIS USING MU MESIC X RAYS. 5-79

MU-MINUS
PI-MINUS D TO GAMMA NN AND MU-MINUS D TO NU NN. 22-41

MULTI-CENTRE
APPROXIMATION OF MULTI-CENTRE INTEGRALS ARISING IN PROTON - HYDROGEN CHARGE EXCHANGE CALCULATIONS. 25-17

MULTI-COMPONENT
ION WAVE TURBULENCE INDUCED BY AN EXPANDING MULTI-COMPONENT PLASMA. 20-61

MULTI-DIMENSIONAL
NUMERICAL METHODS FOR SOLUTION OF THE INTEGRAL EQUATIONS OF MULTI-DIMENSIONAL RADIATION TRANSPORT. 18-31

MULTI-PHASE
MULTI-PHASE FLOW METHODS FOR REACTOR SAFETY ANALYSIS. 18-25

MULTIANGLE
CELL CLASSIFICATION BY MULTIANGLE LASER LIGHT SCATTERING IN A FLOW SYSTEM. 5-20

CLASSIFICATION OF HUMAN LEUKOCYTES BY MULTIANGLE LASER LIGHT SCATTERING IN A FLOW SYSTEM. 5-41

FLOW SYSTEM MULTIANGLE LIGHT SCATTERING INSTRUMENT FOR BIOLOGICAL CELL CHARACTERIZATION. 5-66

FLOW SYSTEM MULTIANGLE LIGHT SCATTERING INSTRUMENT FOR CELL CHARACTERIZATION. 5-67

MULTIBAND
PARAMETRIC STUDY OF A MULTIBAND CARBON DIOXIDE LASER. 20-114

AMPLIFICATION OF MULTILINE/MULTIBAND CARBON DIOXIDE LASER PULSES. 20-4

MULTIBAND CARBON DIOXIDE OSCILLATOR. 20-97

MULTIBURST
EXTENSION OF THE MRC MULTIBURST. 18-13

THREE DIMENSIONAL MULTIBURST SIMULATION USING THE ICED ALE METHOD. 18-50

MULTICHANNEL
MODELS BASED ON MULTICHANNEL R-MATRIX THEORY FOR EVALUATING LIGHT ELEMENT REACTIONS. 25-120

MULTICOMPONENT
RICE: A COMPUTER PROGRAM FOR MULTICOMPONENT CHEMICALLY REACTIVE FLOWS AT ALL SPEEDS. 18-41

MULTIDIMENSIONAL
ENGINEERING APPLICATIONS OF ADI (ALTERNATING - DIRECT - IMPLICIT) METHODS TO PIECEWISE LINEAR MULTIDIMENSIONAL HEAT TRANSFER 21-31

MULTIFILAMENTARY
NEUTRON IRRADIATION OF NIOBIUM(3)TIN AND NIOBIUM - TITANIUM MULTIFILAMENTARY COMPOSITES. 8-30

NEUTRON IRRADIATION OF NIOBIUM(3)TIN AND NIOBIUM - TITANIUM MULTIFILAMENTARY COMPOSITES. 8-31

MULTIGROUP
ONETRAN: A DISCRETE ORDINATES FINITE ELEMENT CODE FOR THE SOLUTION OF THE ONE DIMENSIONAL MULTIGROUP TRANSPORT EQUATION. 24-17

MULTIHUNDRED
PERFORMANCE OF MULTIHUNDRED WATT FUELED SPHERE ASSEMBLIES IN THE SAFETY SEQUENTIAL TEST PROGRAM. 17-35

MULTIJOULE
DAMAGE THRESHOLDS IN ZINC SELENIDE, A/R COATED SODIUM CHLORIDE AND MICROMACHINED MIRRORS BY 10.6 MICRON MULTIJOULE, NANOSECOND PULSES. 20-21

MULTILINE
AMPLIFICATION OF MULTILINE/MULTIBAND CARBON DIOXIDE LASER PULSES 20-4

MODELOCKED, MULTILINE PULSED CARBON DIOXIDE OSCILLATOR. 20-96

MULTILINE OPERATION OF A CARBON DIOXIDE OSCILLATOR/AMPLIFIER SYSTEM. 20-98

MULTILINE SHORT PULSE AMPLIFICATION AND COMPRESSION IN HIGH GAIN CARBON DIOXIDE LASER AMPLIFIER. 20-99

MULTIPARAMETER
MULTIPARAMETER CELL SORTING AND ANALYSIS. 5-103

MULTIPARTICLE
TIME ORDERING OF HIGH ENERGY MULTIPARTICLE PRODUCTION. 25-224

TRANSPORT AND HYDRODYNAMIC ASPECTS OF MULTIPARTICLE PRODUCTION 25-226

UNIFIED APPROACH TO MULTIPARTICLE PRODUCTION PROCESSES AT HIGH ENERGY 27-20

MULTIPERIODIC
CEPHEID PULSATION THEORY AND MULTIPERIODIC CEPHEID VARIABLES 3-8

MULTIPHASE
NUMERICAL CALCULATION OF MULTIPHASE FLUID FLOW 18-27

MULTIPLE
MULTIPLE SCATTERING TREATMENT OF THE SOLVATED ELECTRON IN WATER. 4-41

MULTIPLE HEPA FILTER TEST METHODS, JULY 1, 1974 - MARCH 31, 1975. 17-32

PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS FOR PERIOD JULY 1 THROUGH DECEMBER 31, 1972. 17-36

PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS FOR THE PERIOD MARCH 1 THROUGH JUNE 30, 1972. 17-37

PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS. 17-38

COHERENT MULTIPLE PHOTON PUMPING OF SIMPLE QUANTUM MECHANICAL SYSTEMS. 20-16

ISOTOPIC ENRICHMENT BY MULTIPLE ABSORPTION OF CARBON DIOXIDE LASER RADIATION. 26-63

ISOTOPIC ENRICHMENT OF SULFUR HEXAFLUORIDE IN SULFUR -34 BY MULTIPLE ABSORPTION OF CARBON DIOXIDE LASER RADIATION. 20-64

MULTIPLE EXCHANGE AND HIGH ENERGY FIXED ANGLE SCATTERING. 25-123

EFFECTS OF PION MULTIPLE SCATTERING ON THE DISTRIBUTION OF RESIDUAL NUCLEI. 25-55

MULTIPLET
DIFFERENTIAL NUCLEAR OVERHAUSER ENHANCEMENT FOR CARBON -13 SINGLET AND CARBON -13 - CARBON -13 MULTIPLET RESONANCES OF A CARBONYL CARBON. 14-6

MULTIPLICITIES
EXPERIMENTAL DETERMINATION OF PHOTOFISSION NEUTRON MULTIPLICITIES FOR EIGHT ISOTOPES IN THE MASS RANGE 232 A 239. 16-1

MULTIPLICITY
CANONICAL RESOLUTION OF THE MULTIPLICITY PROBLEM FOR U(3): AN EXPLICIT AND COMPLETE CONSTRUCTIVE SOLUTION. 21-15

ON THE MULTIPLICITY OF SOLUTIONS OF A DIFFERENTIAL EQUATION ARISING IN CHEMICAL REACTOR THEORY. 21-60

MULTIPLY
SUPERFLUID FLOW THROUGH MULTIPLY CONNECTED GEOMETRIES 8-51

MULTIPOLE
VERSATILE MULTIPOLE CORRECTION MAGNET OF RECTANGULAR APERTURE 22-55

MULTISHELL
IMPLOSION, STABILITY, AND BURN OF MULTISHELL FUSION TARGETS 20-54

MULTISTAGE
DEVELOPMENT OF A MULTISTAGE AIR SAMPLER FOR MERCURY 17-12

DIFFRACTION EFFECTS AND OPTICAL QUALITY IN THE MULTISTAGE AMPLIFICATION OF NANOSECOND CARBON DIOXIDE PULSES. 20-24

MULTITRAVEL
OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT 2 PARALLEL MIRRORS, MULTITRAVEL. 20-108

MULTIVALENT
ON SIGNALS GENERATED BY THE BINDING OF MULTIVALENT ANTIGENS TO LYMPHOCYTES 5-108

MULTIWIRE
EFFICIENCY AND POSITION RESOLUTION OF TWO DIMENSIONAL POSITION SENSITIVE MULTIWIRE PROPORTION COUNTERS 22-12

MUMPS
MUMPS CODE BUILDING PACKAGE FOR DATA BASE MANAGEMENT 5-104

MUNICIPAL
HYDROGEN AND FOOD FROM NUCLEAR HEAT AND MUNICIPAL WASTES 30-32

MUON
LAMPF MUON CHANNEL OPERATION 22-24

BEAM CALCULATIONS FOR LAMPF MUON CHANNEL 22-3

MUON LIFETIME MEASUREMENTS IN THE ACTINIDE ELEMENTS 25-124

MUONIC
HIGHER ORDER CORRECTIONS TO ENERGY LEVELS OF MUONIC ATOMS 4-28

ESTIMATE OF THE (Z-ALPHA)2 ALPHA -2 VACUUM POLARIZATION TERM IN MUONIC LEAD 22-13

USE OF MUONIC X RAYS FOR TISSUE ANALYSIS 22-54

MUONIC ISOTOPE SHIFTS IN THE EVEN IRON NUCLEI 25-125

MUONIC X RAY MEASUREMENTS OF NUCLEAR CHARGE RADII IN THE MASS 60 REGION 25-126

MUONIC X RAYS FROM THE TRANSITION NUCLEI PLATINUM -194, 195, 196 25-127

NUCLEAR CHARGE DISTRIBUTIONS IN THE MASS 60 REGION NEW EVIDENCE FROM MUONIC ISOTOPE SHIFT MEASUREMENTS 25-140

NUCLEAR STRUCTURE STUDIES IN HEAVY DEFORMED NUCLEI USING MUONIC ATOMS 25-147

MUONIUM
NEW HIGH PRECISION MEASUREMENT OF THE MUONIUM HYPERFINE STRUCTURE INTERVAL DELTA NU 25-137

PRECISION MEASUREMENT OF (S(1/2) MUONIUM HYPERFINE STRUCTURE INTERVAL DELTA NU -2 RESULTS 25-178

MUONS
DEPOLARIZATION OF NEGATIVE MUONS IN LIQUID HELIUM 25-46

MUTANT
MODIFIED REPLICATE PLATING TECHNIQUE FOR USE IN SOMATIC CELL MUTANT SELECTION 5-102

MW
NEUTRON MONTE CARLO CALCULATION FOR A 1000 MW PROPULSION REACTOR 26-24

M1
ANALOGS OF THE SILICON -28 COLLECTIVE M1 STATES OBSERVED IN THE SILICON -28 (TRITON,HELIUM -3) ALUMINUM -28 REACTION 25-9

N
IDENTIFICATION OF SOLAR FLARE IRON(XVIII) TO IRON(XXIII) EMISSION LINES FROM 2S(N)2P(K)-2S(N-1)2P(K+1) TRANSITIONS 3-21

NEW ELECTRONIC STATES OF N+(2) 4-42

EMF'S ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM: BARE ELECTRODE EFFECTS, USE OF N UNEQUAL TO 2, PREMONITORY PHENOMENA AND LIQUID STRUCTURE IN GOLD CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS 7-5

PROBLEM OF THE N LIARS 21-86

MEASUREMENT AND INTERPRETATION OF GAMMA(N)/GAMMA(F) FOR ACTINIDE NUCLEI 25-111

SUBTHRESHOLD FISSION IN PLUTONIUM -240 + N 25-212

ZERO PLUS STATES NEAR THE N=20 NEUTRON SHELL FROM ARGON(TRITON,PROTON) REACTIONS 25-232

GAMMA(F)/GAMMA(N) FOR ACTINIDE NUCLEI 25-86

N SQUARED
DIRECT SOLUTION OF THE DISCRETE POISSON EQUATION IN O(N-SQUARED) OPERATIONS 20-27

N 1
IDENTIFICATION OF SOLAR FLARE IRON(XVIII) TO IRON(XXIII) EMISSION LINES FROM 2S(N)2P(K)-2S(N-1)2P(K+1) TRANSITIONS. 3-21

NAEG
RADIOCHEMICAL ANALYTICAL RESULTS OF NAEG (NEVADA APPLIED ECOLOGY GROUP) SAMPLES BY LASL-H7 17-48

NANOSECOND
DAMAGE THRESHOLDS IN ZINC SELENIDE, A/R COATED SODIUM CHLORIDE AND MICROMACHINED MIRRORS BY 10.6 MICRON MULTIJOULE, NANOSECOND PULSES 20-21

DIFFRACTION EFFECTS AND OPTICAL QUALITY IN THE MULTISTAGE AMPLIFICATION OF NANOSECOND CARBON DIOXIDE PULSES 20-24

NARROW
LIMITING FLUX PASSAGE TIME IN NARROW SUPERCONDUCTORS. 8-25

REVIEW OF AVAILABLE TECHNOLOGY FOR NARROW BAND TRANSMISSION OF VISUAL MATERIAL 13-15

EQUAL AREA PROPERTY OF NARROW RESONANCES INDUCED IN COUPLED DOPPLER BROADENED SYSTEMS BY INTENSE LASER RADIATION 20-40

NATIONAL
NATIONAL ENERGY NEEDS, COAL, AND THE LOS ALAMOS SCIENTIFIC LABORATORY 12-13

PROPOSAL TO DESIGNATE CERTAIN LAND AREAS OF THE LOS ALAMOS SCIENTIFIC LABORATORY AS A NATIONAL ENVIRONMENTAL RESEARCH PARK 30-66

NATO'S
DEFENSE FORCE FOR NATO'S CENTRAL REGION 30-17

NATURAL
SEARCH FOR ALPHA DECAY IN NATURAL OSMIUM -186 4-200

NDA
INSTRUMENTATION TECHNIQUES FOR NDA (NONDESTRUCTIVE ANALYSIS) OF FISSILE MATERIAL 26-10

NEARBY
DAMAGE TO LENGTHS OF PRIMACORD BY DETONATION OF NEARBY LENGTHS 15-3

NEEDS
NATIONAL ENERGY NEEDS, COAL, AND THE LOS ALAMOS SCIENTIFIC LABORATORY 12-13

QUANTITATIVE ASSESSMENT OF CTR CROSS SECTION NEEDS 25-187

NEGATIVE
ATOMIC CAPTURE OF NEGATIVE MESONS THE FUZZY FERMI TELLER MODEL 4-5

MICRODOSIMETRY OF NEGATIVE PIONS AT LAMPF 5-101

BIOLOGICAL EFFECTS OF NEGATIVE PIONS 5-12

SPATIAL DISTRIBUTION OF EFFECTS OF NEGATIVE PIONS ON CULTURED HUMAN CELLS 5-136

SURVIVAL OF CULTURED MAMMALIAN CELLS IRRADIATED AT VARIOUS DEPTHS IN THE LAMPF NEGATIVE PION THERAPY BEAM 5-139

CELL SURVIVAL AS A FUNCTION OF DEPTH FOR NEGATIVE PIONS AND HEAVY IONS 5-30

CHARACTERISTICS OF A NEGATIVE PION BEAM FOR THE IRRADIATION OF SUPERFICIAL NODULES 5-37

CHARACTERISTICS OF A NEGATIVE PION BEAM IN A THERAPEUTIC APPLICATION 5-38

PROTOTYPE HIGH CURRENT, HIGH DUTY FACTOR NEGATIVE HYDROGEN ION SOURCE FOR LAMPF 22-44

LIFETIMES OF NEGATIVE PARITY STATES OF SCANDIUM -49 BY THE CALCIUM -48(PROTON, GAMMA)SCANDIUM -49 REACTION 25-102

DEPOLARIZATION OF NEGATIVE MUONS IN LIQUID HELIUM 25-46

EFFECT OF SHORT RANGED UNITARY TRANSFORMS ON THE RATE OF THE REACTION NEGATIVE PION PLUS DEUTERON GOES TO GAMMA RAY PLUS TWO NEUTRONS 25-52

NEIGHBORHOOD
PARTICLES AND FIELDS IN THE NEIGHBORHOOD OF A MAGNETIC NEUTRAL LINE 1-19

FISSION CROSS SECTION OF URANIUM -239 IN THE NEIGHBORHOOD OF 7 MEV 25-80

NEODYMIUM
OBSERVATIONS OF EXCITED STATE ABSORPTION IN ED-2 NEODYMIUM GLASS. 20-106

EMITTED ELECTRON SPECTRA FROM PLASMAS PRODUCED WITH NEODYMIUM AND CARBON DIOXIDE LASERS 20-36

AMPLIFICATION OF THE 1.32 MICRON LINE IN NEODYMIUM YAG 20-5

ENERGY LEVELS AND LEVEL DENSITY IN NEODYMIUM -144. 25-65

ENERGY LEVELS IN NEODYMIUM -144. 25-68

NEON
ANALYSIS OF VUV EMISSION IN A THETA PINCH SEEDED WITH NEON AND IRON 4-1

COLLISIONS OF NEON*(3S) AND NEON(+) WITH NEON. EXCITATION AND CHARGE TRANSFER, ELASTIC SCATTERING, AND DIFFUSION. 4-9

NEPTUNIUM
KINETICS OF THE OXIDATION - REDUCTION REACTIONS OF URANIUM, NEPTUNIUM, PLUTONIUM AND AMERICIUM IN AQUEOUS SOLUTIONS. 7-10

MAGNETISM IN NEPTUNIUM BORIDES. 23-35

MAGNETISM IN NEPTUNIUM BORIDES 23-36

NET
NET APPLICATIONS IN CTR ENGINEERING. 10-83

NET-2
NET-2 NETWORK ANALYSIS PROGRAM. 21-51

NETWORK
NETWORK THERMODYNAMICS: AN OVERVIEW. 5-105

NET-2 NETWORK ANALYSIS PROGRAM 21-51

NETWORKS
CHEMICAL REACTION DYNAMICS. PART 2. REACTION NETWORKS. 6-2

NEUROSOPORA
CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF WHOLE CELLS AND OF CYTOCHROME C FROM NEUROSOPORA CRASSA GROWN WITH CARBON -1 METHIONINE. 14-3

NEUTRAL
PARTICLES AND FIELDS IN THE NEIGHBORHOOD OF A MAGNETIC NEUTRAL LINE 1-19

TRANSIENT CHARGE EXCHANGE EFFECTS IN A NEUTRAL GAS LAYER. 10-151

NEUTRON
NEUTRON STAR MODELS WITH REALISTIC HIGH DENSITY EQUATIONS OF STATE. 3-28

COMPUTER MODELING OF NEUTRON DOSE AT VARIOUS LOCATIONS WITHIN THE BODY DURING PION RADIOTHERAPY. 5-46

NEUTRON IRRADIATION OF NIOBIUM(3)TIN AND NIOBIUM - TITANIUM MULTIFILAMENTARY COMPOSITES. 8-30

NEUTRON IRRADIATION OF NIOBIUM(3)TIN AND NIOBIUM - TITANIUM MULTIFILAMENTARY COMPOSITES 8-31

CONVERSION OF PARA TO ORTHOHYDROGEN IN A GAMMA RAY AND NEUTRON RADIATION FIELD 8-7

NEUTRON DIFFRACTION STUDIES OF DEUTERIUM - SOLID STRUCTURES AND TRANSITIONS. 9-14

NEUTRON DIFFRACTION STUDY OF HEXAAMMINE D3 CALCIUM(0) AT 75 DEGREES KELVIN. 9-15

CRYSTAL STRUCTURE OF PHASEODYMIUM(7) OXYGEN(12) BY POWDER NEUTRON DIFFRACTION 9-8

USE OF LITHIUM (DEUTERON,NEUTRON) NEUTRONS FOR SIMULATION OF RADIATION EFFECTS IN FUSION REACTORS. 10-154

APPLICATION OF SENSITIVITY ANALYSIS TO A QUANTITATIVE ASSESSMENT OF NEUTRON CROSS SECTION REQUIREMENTS FOR THE TFTR (TOKAMAK FUSION TEST REACTOR): AN INTERIM REPORT. 10-2

DEUTERIUM FLOW LOOP FOR A SUPERSONIC GAS TARGET INTENSE NEUTRON SOURCE. 10-20

INTENSE NEUTRON SOURCE FACILITY FOR THE FUSION ENERGY PROGRAM. 10-62

LINEAR THETA PINCH AS A 14 NEUTRON SOURCE. 10-72

LINEAR THETA PINCH NEUTRON SOURCE. 10-74

LTPF - A LINEAR THETA PINCH NEUTRON SOURCE. 10-75

NEUTRON ENERGY DEPENDENCE OF DEFECT PRODUCTION CROSS SECTIONS IN COPPER AND ALUMINUM. 10-84

EXPERIMENTAL DETERMINATION OF PHOTOFISSION NEUTRON MULTIPLICITIES FOR EIGHT ISOTOPES IN THE MASS RANGE 232 A 235. 16-1

NUCLEAR CHARGE DISTRIBUTION IN FISSION SPECTRUM NEUTRON INDUCED FISSION: FRACTIONAL CUMULATIVE YIELDS OF RARE GAS NUCLIDES FROM FISSION OF URANIUM -235 AND URANIUM -238 16-10

FISSION PRODUCT GAMMA AND (GAMMA,NEUTRON) SPECTRA AND GAMMA DECAY HEAT. 16-2

INDEPENDENT FISSION YIELDS OF RUBIDIUM AND CESIUM FROM THERMAL NEUTRON INDUCED FISSION OF PLUTONIUM -239 16-6

ENERGY DEPENDENCE OF FOUR NEUTRON REMMETER INSTRUMENTS. 17-18

PASSIVE ENVIRONMENTAL NEUTRON DOSIMETER. 17-34

NEUTRON EMISSION FROM LASER PRODUCED PLASMAS. 20-100

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 2. PHOTONUCLEAR (DEUTERIUM (GAMMA,NEUTRON)) METHOD. 20-103

EXTRACTION OF NEUTRON - NEUTRON SCATTERING LENGTH FROM THE REACTION PI DEUTERON TO GAMMA NEUTRON - NEUTRON. 22-14

EXTRACTION OF NEUTRON - NEUTRON SCATTERING LENGTH FROM THE REACTION PI -DEUTERON TO GAMMA NEUTRON - NEUTRON ERRATUM. 22-15

HIGH ENERGY NEUTRON SPECTRA AT THE LAMPF RADIATION EFFECTS FACILITY. 22-16

MEASUREMENT OF THE 0 DEGREE NEUTRON SPECTRA FROM 647 AND 800 MEV PROTON BOMBARDMENT OF LIGHT NUCLEI. 22-27

MEASUREMENT OF THE NEUTRON FLUX GENERATED BY THE LAMPF 800 MEV PROTON BEAM STOP. 22-28

OFF-SHELL EFFECTS IN THE REACTION PROTON + PROTON TO NEUTRON + PROTON + POSITIVE PION. 22-35

CALCULATED NEUTRON SPECTRUM FROM 800 MEV PROTONS INCIDENT ON A COPPER BEAM STOP. 22-6

EFFECTS OF NEUTRON IRRADIATION ON CRITICAL CURRENT OF NIOBIUM(3)TIN AT HIGH FIELD. 23-15

EFFECTS OF REACTOR NEUTRON, 14 MEV NEUTRON AND ENERGETIC CHARGED PARTICLE IRRADIATIONS ON THE CRITICAL CURRENT IN NIOBIUM(3)TIN. 23-16

HIGH ENERGY PROTON SIMULATION OF 14 MEV NEUTRON DAMAGE IN ALUMINUM OXIDE. 23-28

EFFECTS OF NEUTRON STREAMING AND GEOMETRIC MODELS ON MOLTEN FUEL RECRITICALITY ACCIDENTS. 24-10

EFFECTS OF NEUTRON STREAMING AND GEOMETRIC MODELS ON MOLTEN FUEL RECRITICALITY ACCIDENTS. 24-11

GENERALIZED DIFFUSION THEORY FOR CALCULATING THE NEUTRON TRANSPORT SCALAR FLUX. 24-12

NEUTRON AND GAMMA TRANSPORT CALCULATIONS FOR SPRINT. 24-16

WALSH FUNCTION APPROXIMATION FOR NEUTRON TRANSPORT IN X-Y GEOMETRY. 24-22

CENTRAL NEUTRON SPECTRUM OF THE FAST CRITICAL ASSEMBLY BIG-TEN. 24-5

COARSE MESH REBALANCE METHODS COMPATIBLE WITH THE SPHERICAL HARMONIC FICTITIOUS SOURCE IN NEUTRON TRANSPORT CALCULATIONS. 24-6

(NEUTRON, FISSION) CROSS SECTIONS FOR EXOTIC ACTINIDES. 25-1

KILOVOLT SULFUR -33 (NEUTRON,ALPHA-0) AND SULFUR -33 (NEUTRON,GAMMA) CROSS SECTIONS: IMPORTANCE IN THE NUCLEOSYNTHESIS OF THE RARE NUCLEUS SULFUR -36. 25-101

MEASUREMENT OF (NEUTRON,2NEUTRON) AND (NEUTRON,3NEUTRON) CROSS SECTIONS. 25-112

MEASUREMENT OF THE CROSS SECTION FOR THE REACTION PI(-) + PROTON TO PI(+) + NEUTRON AT 350 AND 300 MEV. 25-113

MESON EXCHANGE CURRENTS IN NEUTRON -PROTON BREMSSTRAHLUNG. 25-117

MODEL OF THE PROTON PLUS PROTON GOES TO PROTON PLUS NEUTRON PLUS POSITIVE PION REACTION AT 766 MEV. 25-119

MONTE CARLO STUDIES OF TARGET/MODERATOR CONFIGURATIONS FOR THE WEAPONS NEUTRON RESEARCH FACILITY. 25-121

MORE 14 MEV, NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS. 25-122

NEUTRON - PROTON BREMSSTRAHLUNG. 25-128

NEUTRON ENERGY AND VELOCITY DISTRIBUTIONS FROM THERMAL DEUTERIUM TRITIUM REACTIONS. 25-129

NEUTRON FISSION CROSS SECTION OF CALIFORNIUM -249. 25-130

NEUTRON KNOCKOUT BY PIONS ON NITROGEN -14, OXYGEN -16, AND FLUORINE -19. 25-131

NEUTRON PRODUCTION AT 0 DEGREES FROM THE REACTION PROTON - PROTON TO NEUTRON -PROTON - PI(+) AT THE MEDIUM ENERGIES 25-132

NEUTRON PROPERTIES OF TAMPER MATERIALS. 2 25-133

NEUTRON SPECTRA FROM PROTON BOMBARDMENT OF DEUTERIUM AT 647 AND 800 MEV. 25-134

NEUTRON SPECTRUM FROM AN ENRICHED URANIUM -235 SPHERE. 25-135

NEUTRON SPECTRUM FROM AN ORALLOY SPHERE. 25-136

NJOY: A NEUTRON AND PHOTON CROSS SECTION PROCESSING SYSTEM. 25-138

PARITY VIOLATING ASYMMETRY IN NEUTRON PHOTO CAPTURE BY PROTONS AND THE ISOSPIN STRUCTURE OF THE STRANGENESS CONSERVING NONLEPTONIC WEAK INTERACTIONS. 25-155

QUASIFREE PION PRODUCTION AS SEEN IN NEUTRON - DEUTERON REACTIONS WITH A FINAL FAST DEUTERON. 25-190

RADIATIVE CAPTURE GAMMA RAYS FROM THE REACTION LEAD -208 (NEUTRON,GAMMA) LEAD -209 FOR 11 MEV INCIDENT NEUTRONS. 25-192

SELF SHIELDED CROSS SECTIONS FOR NEUTRON TRANSPORT IN IRON. 25-201

SOME TOPICS CONCERNING NEUTRON - NEUTRON AND NEUTRON - DEUTERON EXPERIMENTS AT MEDIUM ENERGY. 25-206

TECHNIQUES WITH CALIFORNIUM -252 FOR NEUTRON CAPTURE GAMMA RAY SPECTROSCOPY. 25-216

THERMAL NEUTRON CAPTURE AND ABSORPTION CROSS SECTIONS FOR NICKEL -59. 25-220

TIME OF FLIGHT NEUTRON SPECTROSCOPY USING APPROXIMATELY 20 METER FLIGHT PATHS TO A NUCLEAR DEVICE. 25-223

TOTAL NEUTRON CROSS SECTIONS OF HELIUM -3, HELIUM -4, LITHIUM -6, LITHIUM -7 IN THE MEV RANGE. 25-225

TRITIUM (DEUTERON,NEUTRON) HELIUM -4 AND TRITIUM (TRITON,2NEUTRON) CROSS SECTIONS AT LOW ENERGIES. 25-227

CALCIUM -40 (NEUTRON,ALPHA) ARGON -37 CROSS SECTION FROM 3 TO 14.7 MEV. 25-23

ZERO PLUS STATES NEAR THE N=20 NEUTRON SHELL FROM ARGON(TRITON,PROTON) REACTIONS. 25-232

CHARACTERISTICS OF RADIATION DAMAGE PARAMETERS IN VARIOUS NEUTRON SPECTRA. 25-26

COMPARISON OF COPPER AND GOLD ORE RESPONSES TO NEUTRON CAPTURE AND DECAY GAMMA RAY TECHNIQUES WITH CALIFORNIUM -252. 25-33

CROSS SECTIONS FOR (NEUTRON,X-NEUTRON) REACTIONS BETWEEN 7.5 AND 28 MEV. 25-41

DEDUCED NEUTRON ENERGY SPECTRA ON SKYLAB. 25-43

50 MEV POLARIZED NEUTRON FACILITY INCORPORATING A HIGH PRESSURE TRITIUM GAS TARGET. 25-6

EVALUATION OF GAMMA RAY PRODUCTION CROSS SECTIONS FROM NEUTRON INDUCED REACTIONS ON TUNGSTEN. 25-70

FOURTEEN MEV, NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS FOR SEVERAL ELEMENTS. 25-84

HELIUM -3 PLUS GAMMA TO 2 PROTONS PLUS NEUTRON. 25-91

HELIUM -3(GAMMA,NEUTRON) 2 PROTON AND HELIUM -3(GAMMA,PROTON) NP REACTIONS. 25-92

NEUTRON MEASUREMENTS OF URANIUM -234 ISOTOPIC ABUNDANCE IN URANIUM HEXAFLUORIDE SAMPLES. 26-11

SHIFT REGISTER NEUTRON COINCIDENCE MODULE. 26-26

CALIFORNIUM -252 NEUTRON SOURCE SYSTEMS FOR THE ASSAY OF URANIUM AND PLUTONIUM IN FUEL RODS. 26-3

NEUTRON MONTE CARLO CALCULATION FOR A 1000 MW PROPULSION REACTOR. 26-24

INTEGRAL NEUTRON AND GAMMA DOSE MEASUREMENTS ON KIWI-A THREE. 30-33

NEUTRONICS
KIWI-B HEAT EXCHANGER AND NEUTRONICS -DYNAMICS ANALYSIS. 30-37

SOME ROVER NEUTRONICS STUDIES. 30-83

NEUTRONS
COPPER MINING AND MILL ANALYSES BY GAMMA RAYS FROM CAPTURE OF CALIFORNIUM -252 NEUTRONS. 2-8

USE OF LITHIUM (DEUTERON,NEUTRON) NEUTRONS FOR SIMULATION OF RADIATION EFFECTS IN FUSION REACTORS. 10-154

ANALYSIS OF GEOTHERMAL POWER PLANT WATER USING GAMMA RAYS FROM CAPTURE OF CALIFORNIUM -252 NEUTRONS. 11-3

ANGULAR DISTRIBUTIONS IN THE RADIATIVE CAPTURE OF 14 MEV NEUTRONS. 25-11

PRODUCTION OF FLUORINE -18 USING ENERGETIC NEUTRONS FROM LAMPF BEAM STOP 25-179

RADIATIVE CAPTURE GAMMA RAYS FROM THE REACTION LEAD -208 (NEUTRON,GAMMA) LEAD -209 FOR 11 MEV INCIDENT NEUTRONS. 25-192

SEMICLASSICAL MODEL FOR PION PRODUCTION BY NEUTRONS ON NUCLEI. 25-203

SPECTRUM AND SHIELDING MEASUREMENTS AND CALCULATIONS OF NEUTRONS PRODUCED BY 800 MEV PROTONS. 25-208

DIFFERENTIAL CROSS SECTIONS FOR GAMMA RAYS FROM IRON FOR INCIDENT NEUTRONS OF 8.5, 10.0, 12.2, AND 14.2 MEV. 25-49

EFFECT OF SHORT RANGED UNITARY TRANSFORMS ON THE RATE OF THE REACTION NEGATIVE PION PLUS DEUTERON GOES TO GAMMA RAY PLUS TWO NEUTRONS. 25-52

ENERGY AND ANGULAR DISTRIBUTION OF NEUTRONS PRODUCED BY 800 MEV PROTON -PROTON COLLISIONS. 25-64

FORE - AFT ANISOTROPY IN THE RADIATIVE CAPTURE OF 14 MEV NEUTRONS. 25-82

INELASTIC SCATTERING CROSS SECTIONS OF LEAD AND URANIUM FOR 14 MEV NEUTRONS. 25-99

DISINTEGRATION OF HELIUM -3 BY FAST NEUTRONS. 27-5

NEVADA
PLUTONIUM, AMERICIUM AND URANIUM CONCENTRATIONS IN NEVADA TEST SITE SOIL PROFILES. 17-43

RADIOCHEMICAL ANALYTICAL RESULTS OF NAEG (NEVADA APPLIED ECOLOGY GROUP) SAMPLES BY LASL-H7. 17-48

NEW
NEW ELECTRONIC STATES OF N+(2). 4-42

CESIUM -137 ACTIVITY IN A NORMAL NEW MEXICO POPULATION: 1956-1973. 5-33

ADDITIONAL NOTE ON THE ISOTOPIC COMPOSITION OF STRONTIUM IN MCCARTYS FLOW, VALENCIA COUNTY, NEW MEXICO. 11-1

FAULT ACTIVITY AND SEISMICITY NEAR THE LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST SITE, JEMEZ MOUNTAINS, NEW MEXICO. 11-15

FOCAL MECHANISM OF THE DULCE, NEW MEXICO, EARTHQUAKE ON JANUARY 23, 1966. 11-16

NEW AND MORE ACCURATE METHOD FOR THE DIRECT MEASUREMENTS OF EARTH TEMPERATURE GRADIENTS IN DEEP BOREHOLES. 11-33

PETROLOGY OF DEEP SEATED CUMULATE INCLUSIONS, WEST POTRILLO MOUNTAINS, NEW MEXICO. 11-39

SEISMICITY OF THE NORTHERN RIO GRANDE RIFT ZONE, NEW MEXICO. 11-50

SEISMICITY STUDIES IN NORTHERN NEW MEXICO. 11-51

DESIGN OF VENTILATION AND AIR CLEANING SYSTEMS FOR THE NEW LOS ALAMOS PLUTONIUM FACILITY. 17-10

ENVIRONMENTAL ISSUES RELATED TO ENERGY RESOURCE DEVELOPMENT IN NEW MEXICO. 17-23

NEW COMPUTER TECHNIQUE FOR NONLINEAR OPTICAL PROBLEMS. 20-101

LASER FUSION: A NEW THERMONUCLEAR POWER CONCEPT. 20-73

METAL ATOM OXIDATION LASERS: A NEW FAMILY OF CHEMICAL LASERS. 20-91

GAUSSIAN ELIMINATION FOR DENSE SYSTEMS ON STAR AND A NEW PARALLEL ALGORITHM FOR DIAGONALLY DOMINANT TRIDIAGONAL SYSTEMS. 21-36

NEW METHOD FOR COATING MICROSPHERES WITH ZIRCONIUM CARBIDE AND ZIRCONIUM CARBIDE -CARBON GRADED COATS. 23-41

NEW METHOD FOR COATING MICROSPHERES WITH ZIRCONIUM CARBIDE AND ZIRCONIUM CARBIDE -CARBON GRADED COATS. 23-42

NEW HIGH PRECISION MEASUREMENT OF THE MUONIUM HYPERFINE STRUCTURE INTERVAL DELTA NU. 28-137

NUCLEAR CHARGE DISTRIBUTIONS IN THE MASS 60 REGION NEW EVIDENCE FROM MUONIC ISOTOPE SHIFT MEASUREMENTS. 25-140

ANOMOLOUS LOCAL SNOWSTORM IN NEW MEXICO. 30-3

SELF FLYING ATOMIC BOMBS (NEW MEXICO JUMPING BEAN 5). 30-82

NEXT
XPECT A MONTE CARLO PROGRAM TO PREDICT THE EXPECTED TIME TO NEXT FAILURE IN CONTROLLED THERMONUCLEAR RESEARCH SYSTEMS. 10-156

NICKEL
FOURIER TRANSFORM CARBON -13 MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 2. LIGAND SUBSTITUTION PROCESSES. 7-7

FOURIER TRANSFORM CARBON -13 NUCLEAR MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 1 EQUILIBRIUM QUOTIENTS FROM RELATIVE ABUNDANCES OF SOLUTION SPECIES. 14-7

MATRIX MOTION OF LOW VOLUME MATRIX TUNGSTEN/NICKEL/IRON COMPOSITES SINTERED IN A TEMPERATURE GRADIENT. 23-37

MAGNETIC MOMENT OF NICKEL -57. 25-108

SYSTEMATICS OF PION AND PROTON INTERACTIONS WITH NICKEL NUCLIDES. 25-214

THERMAL NEUTRON CAPTURE AND ABSORPTION CROSS SECTIONS FOR NICKEL -59. 25-220

DEFORMED HARTREE-FOCK DESCRIPTION OF THE IRON, NICKEL, AND ZINC ISOTOPES. 25-44

NIOBIUM
AXIAL DISTRIBUTIONS OF NIOBIUM -95 AND ZIRCONIUM -95 ISOTOPES IN IRRADIATED URANIUM DIOXIDE - PLUTONIUM DIOXIDE FUEL PINS. 2-3

LASL NIOBIUM(3)GERMANIUM CONDUCTOR DEVELOPMENT, AUGUST 1 - OCTOBER 31, 1975. 6-23

LASL NIOBIUM(3)GERMANIUM CONDUCTOR DEVELOPMENT, MAY 1 - JULY 31, 1975. 6-24

NEUTRON IRRADIATION OF NIOBIUM(3)TIN AND NIOBIUM - TITANIUM MULTIFILAMENTARY COMPOSITES. 6-30

NEUTRON IRRADIATION OF NIOBIUM(3)TIN AND NIOBIUM - TITANIUM MULTIFILAMENTARY COMPOSITES. 6-31

PREPARATION OF HIGH T(C) NIOBIUM(3) GERMANIUM SUPERCONDUCTORS BY CHEMICAL VAPOR DEPOSITION. 6-37

TEMPERATURE AND CURRENT DEPENDENCE OF THE MAGNETIC FIELD PROFILES OF NIOBIUM(3)TIN TAPES CARRYING A CURRENT. 6-52

BULK SUPERCONDUCTIVITY ABOVE 20 DEGREES KELVIN IN NIOBIUM(3)GERMANIUM. 6-6

CRITICAL CURRENT DENSITIES IN NIOBIUM(3) GERMANIUM BETWEEN 14 AND 21 DEGREES KELVIN. 6-8

ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 1. PHASE BOUNDARY, THERMODYNAMICS AND LATTICE PARAMETER. 9-1

ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 2. SUPERCONDUCTING TRANSITION TEMPERATURE. 9-2

EFFECTS OF NEUTRON IRRADIATION ON CRITICAL CURRENT OF NIOBIUM(3)TIN AT HIGH FIELD 23-15

EFFECTS OF REACTOR NEUTRON, 14 MEV NEUTRON AND ENERGETIC CHARGED PARTICLE IRRADIATIONS ON THE CRITICAL CURRENT IN NIOBIUM(3)TIN. 23-16

LOW TEMPERATURE THERMAL AND ELECTRICAL PROPERTIES OF CHEMICAL VAPOR DEPOSITED NIOBIUM(3)GERMANIUM. 23-34

NIOSH-IA-74-10
DEVELOPMENT OF AIR SAMPLING TECHNIQUES, LASL PROJECT R-040, NIOSH-IA-74-10, APRIL 1 - SEPTEMBER 30, 1974 17-13

NITRIDE
ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 1. PHASE BOUNDARY, THERMODYNAMICS AND LATTICE PARAMETER. 9-1

ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 2. SUPERCONDUCTING TRANSITION TEMPERATURE. 9-2

NITROGEN
EQUATION OF STATE OF NITROGEN TO 21 KBAR FROM SIMULTANEOUS MEASUREMENT OF P V T AND SOUND VELOCITY. 4-22

MELTING PROPERTIES AND SOUND VELOCITY OF NITROGEN TO 21 KILOBARS. 4-29

MELTING PROPERTIES AND ULTRASONIC VELOCITY OF NITROGEN TO 20 KBAR. 4-39

SOUND VELOCITY AND THE EQUATION OF STATE OF NITROGEN(2) TO 22 KBAR. 4-53

TRANSITIONS 2S(2)2P(K)-2S2P(K+1) OF THE FLUORINE(I), OXYGEN(I), AND NITROGEN(I) ISOELECTRONIC SEQUENCES. 4-66

TRANSITIONS 2S(2)2P(K)-2S2P(K+1) OF THE NITROGEN(I) AND CARBON(I) ISOELECTRONIC SEQUENCES. 4-67

SYNTHESES WITH STABLE ISOTOPES: UREA (CARBON -13), UREA (CARBON -12), AND UREA (CARBON -13,NITROGEN -15). 7-19

ELECTRICAL BREAKDOWN AND TRACKING CHARACTERISTICS OF PULSED HIGH VOLTAGES IN CRYOGENIC HELIUM AND NITROGEN. 8-15

POOL BOILING HEAT TRANSFER TO LIQUID HELIUM AND LIQUID NITROGEN IN A NEARLY ZERO GRAVITY ENVIRONMENT. 8-56

REACTION CARBON -13 (PI-PLUS, PI-ZERO) NITROGEN -13 (G.S.) FOR E(PI-PLUS) = 30 TO 190 MEV. 22-49

NEUTRON KNOCKOUT BY PIONS ON NITROGEN -14, OXYGEN -16, AND FLUORINE -19. 25-131

ACTIVATION STUDIES OF PION INDUCED REACTIONS ON CARBON, NITROGEN, OXYGEN, FLUORINE, ALUMINUM AND COPPER. 25-8

LATTICE DYNAMICS AND STRUCTURAL PROPERTIES OF SOLID NITROGEN. 29-4

NITROSUREA
COMPARATIVE EFFECTS OF THREE NITROSUREA DERIVATIVES ON MAMMALIAN CELL CYCLE PROGRESSION. 5-42

NJOY
NJOY: A NEUTRON AND PHOTON CROSS SECTION PROCESSING SYSTEM. 25-138

NMR
STRUCTURE AND HINDERED MOTION OF BORON (3) HYDROGEN(8) ANIONS IN SOLIDS: AN NMR (NUCLEAR MAGNETIC RESONANCE) STUDY. 14-12

STRUCTURE AND MOTION OF B3H8- ANIONS IN SOLIDS: A BORON AND PROTON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY. 14-13

INDUCED PARAMAGNETISM IN URANIUM ALLOYS: A BORON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY OF ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND YTTRIUM TETRABORIDE. 14-8

NN
PI MINUS D TO GAMMA NN AND MU-MINUS D TO NU NN. 22-41

NODULES
CHARACTERISTICS OF A NEGATIVE PION BEAM FOR THE IRRADIATION OF SUPERFICIAL NODULES. 5-37

NOISE
DISTORTION AND NOISE INDUCED DC OFFSET IN OPERATIONAL AMPLIFIERS. 13-3

NOISE IMMUNITY IN DIGITAL COMMUNICATION BY USE OF ORTHOGONAL SIGNAL CORRELATION AND WALSH FUNCTIONS. 19-15

NOLAN-POLLAK
COMPARISON OF THE LANGER, ROSEN, NOLAN-POLLAK, AND SANDS CONDENSATION NUCLEUS COUNTERS. 1-1

NON-COORDINATE
RNA SYNTHESIS IN CHINESE HAMSTER CELLS. 3. NON-COORDINATE INCREASES DURING INTERPHASE IN SYNTHESIS RATES FOR INFORMOSOMAL, POLYSOMAL, AND HETEROGENEOUS NUCLEAR RNAS. 5-120

NON-EIKONAL
NON-EIKONAL APPROACH TO THE SCATTERING OF HADRONS FROM NUCLEI. 2. PROTON AND PION SCATTERING FROM DEUTERIUM, HELIUM -3 AND HELIUM -4. 25-130

NON-EQUILIBRIUM
STATIONARY NON-EQUILIBRIUM PROPERTIES OF A QUANTUM MECHANICAL LATTICE WITH SELF CONSISTENT RESERVOIRS. 27-16

NON-INTERCEPTING
NON-INTERCEPTING BEAM POSITION SENSOR FOR LAMPF. 21-62

NON-INTERCEPTING POSITION MONITOR FOR THE LAMPF WNR BEAM. 22-33

NON-LINEAR
NON-LINEAR RADIATIVE TRANSFER MODEL OF SW ANDROMADAE. 3-20

NON-STOICHIOMETRY
ADDITIONAL POLYMORPHISM AND NON-STOICHIOMETRY IN SILVER FLUORIDE. 20-1

NONCOLLECTIVE
EQUILIBRIUM DEFORMATIONS AND EXCITATION ENERGIES FOR NONCOLLECTIVE STATES IN ODD Z RARE EARTH NUCLEI. 7a-67

NONCONSERVATION
LIMIT ON PARITY NONCONSERVATION IN P-NUCLEUS SCATTERING AT 6 GEV/C. 25-169

PARITY NONCONSERVATION IN PROTON - PROTON AND PROTON - NUCLEUS SCATTERING. 25-189

PARITY NONCONSERVATION IN TWO NUCLEON SYSTEMS. 25-154

NONDESTRUCTIVE
QUANTITATIVE DETERMINATION OF FISSION PRODUCTS IN IRRADIATED FUEL PINS USING NONDESTRUCTIVE GAMMA SCANNING 2-21

QUANTITATIVE DETERMINATION OF FISSION PRODUCTS IN IRRADIATED FUEL PINS USING NONDESTRUCTIVE GAMMA SCANNING. 2-22

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 1. X RAY METHOD. 20-102

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 2. PHOTONUCLEAR (DEUTERIUM (GAMMA,NEUTRON)) METHOD. 20-103

NONDES CTIVE FUEL ASSAY OF LASER TARGETS. 3. ELASTIC SCATTERING METHOD. 20-104

AUTOMATED NONDESTRUCTIVE ASSAY INSTRUMENTATION FOR NUCLEAR MATERIALS SAFEGUARDS. 26-1

INSTRUMENTATION TECHNIQUES FOR NDA (NONDESTRUCTIVE ANALYSIS) OF FISSILE MATERIAL. 26-10

NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL RODS. 26-12

NONDESTRUCTIVE ASSAY OF INVENTORY VERIFICATION SAMPLES AT THE LASL VAN DE GRAAFF SMALL SAMPLE ASSAY STATION. 26-13

NONDESTRUCTIVE ASSAY PHYSICAL STANDARDS AND TODAY'S SAFEGUARDS REQUIREMENTS. 26-14

NONDESTRUCTIVE ASSAY TECHNOLOGY AND IN-PLANT DYNAMIC MATERIALS CONTROL. 26-15

NONDESTRUCTIVE ASSAY TECHNOLOGY AND IN-PLANT MATERIALS CONTROL: DYMAC. 26-16

AUTOMATED NONDESTRUCTIVE ASSAY SYSTEM FOR THE MEASUREMENT OF IRRADIATED ROVER FUEL. 26-2

PERFORMANCE OF SELECTED NONDESTRUCTIVE ASSAY TECHNIQUES ON LWR (LIGHT WATER REACTOR) (PLUTONIUM,URANIUM) DIOXIDE AND URANIUM DIOXIDE FUEL. 26-21

ROLE OF THE SMALL ACCELERATOR IN THE NONDESTRUCTIVE ASSAY LABORATORY. 26-24

DO'S AND DONT'S OF NONDESTRUCTIVE ASSAY MEASUREMENTS. 26-5

FUNDAMENTALS OF PASSIVE NONDESTRUCTIVE ASSAY OF FISSIONABLE MATERIAL: LABORATORY WORKBOOK. 26-7

IN-PLANT NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL MATERIALS. 26-9

NONEQUILIBRIUM
STATIONARY NONEQUILIBRIUM PROPERTIES OF A QUANTUM MECHANICAL LATTICE WITH SELF CONSISTENT RESERVOIRS. 27-17

NONIDEAL
EQUATION OF STATE FOR NONIDEAL EXPLOSIVES. 15-9

NONLEPTONIC
PARITY VIOLATING ASYMMETRY IN NEUTRON PHOTO CAPTURE BY PROTONS AND THE ISOSPIN STRUCTURE OF THE STRANGENESS CONSERVING NONLEPTONIC WEAK INTERACTIONS. 25-155

IMPLICATIONS OF PARITY VIOLATING EFFECTS IN STRANGENESS CONSERVING NONLEPTONIC PROCESSES. 25-98

NONLINEAR
CONSEQUENCES OF COUPLING COEFFICIENT SATURATION ON THE NONLINEAR BEHAVIOR OF DECAY INSTABILITIES. 10-10

COUPLING COEFFICIENT SATURATION IN THE NONLINEAR THEORY OF PARAMETRIC INSTABILITIES. 10-14

NEW COMPUTER TECHNIQUE FOR NONLINEAR OPTICAL PROBLEMS. 20-101

INTERFEROMETRIC MEASUREMENTS OF THE NONLINEAR REFRACTIVE INDEX COEFFICIENT RELATIVE TO CARBON DISULFIDE IN LASER SYSTEM RELATED MATERIALS. 20-57

HYBRID DIGITAL/OPTICAL SYSTEMS FOR NONLINEAR IMAGE RESTORATION. 21-40

ANALYSIS OF SOME GALERKIN SCHEMES FOR THE SOLUTION OF NONLINEAR TIME DEPENDENT PROBLEMS. 21-6

STUDIES OF NONLINEAR PROBLEMS. 1. 21-77

NONLINEARITY
EFFECT OF REFRACTIVE INDEX NONLINEARITY ON THE OPTICAL QUALITY OF HIGH POWER LASER BEAMS. 20-29

NONLOCAL
KINETIC NONLOCAL ANALYSIS OF CROSS FIELD INSTABILITIES IN THETA PINCH PLASMAS. 10-67

NONLOCAL ANALYSIS OF CROSS FIELD INSTABILITIES IN THETA PINCHES. 10-66

NONSTEADY
NONSTEADY STATE DETONATIONS IN ONE DIMENSIONAL PLANE, DIVERGING, AND CONVERGING GEOMETRIES. 15-18

NONUNIFORM
IMPORTANCE OF NONUNIFORM DOSE DISTRIBUTION IN AN ORGAN. 5-78

TWO DIMENSIONAL STABILITY OF AN ELECTROMAGNETIC WAVE OBLIQUELY INCIDENT ON A NONUNIFORM PLASMA. 10-153

NORMAL
PREPARATIVE METHODS FOR ANALYSIS OF DNA, PROTEIN AND NUCLEAR - TO - CYTOPLASMIC RATIOS IN NORMAL AND TUMOR CELL POPULATIONS. 5-116

CESIUM -137 ACTIVITY IN A NORMAL NEW MEXICO POPULATION: 1956-1973. 5-33

RADIOACTIVE WASTE OUTPUT FROM LASER -FUSION GENERATING STATIONS DURING NORMAL OPERATIONS. 20-127

LOGNORMAL DAMAGE FUNCTION WITH OFFSET CIRCULAR NORMAL TARGET AND WEAPON LOCATIONS: MEAN AND OTHER MOMENTS. 30-43

NORMALIZATION
INTEGRAL RELATION FOR THE ASYMPTOTIC NORMALIZATION OF THE TRITON. 25-100

NORTHERN
TWO BARIUM PLASMA INJECTIONS INTO THE NORTHERN MAGNETOSPHERIC CLEFT. 1-30

SEISMICITY OF THE NORTHERN RIO GRANDE RIFT ZONE, NEW MEXICO. 11-50

SEISMICITY STUDIES IN NORTHERN NEW MEXICO. 11-51

NOS
INTERACTION NOTES. (NOS.197, 198, 199, 200). 21-41

NOTCH
EFFECTS OF SOLUTION AND INTERMEDIATE HEAT TREATMENTS ON THE NOTCH RUPTURE BEHAVIOR OF INCONEL 718. 23-17

USE OF INTERMEDIATE HEAT TREATMENTS FOR THE RESTORATION OF THE NOTCH RUPTURE PROPERTIES OF INCONEL 718. 23-61

NOTES
NUMERICAL METHODS IN FLUID DYNAMICS. 1974. 4TH INTERNATIONAL CONFERENCE, BOULDER. PROCEEDINGS, LECTURE NOTES IN PHYSICS, V.35. 18-32

INTERACTION NOTES. (NOS.197, 198, 199, 200). 21-41

NOTION
NOTION OF COMPLEXITY. 21-53

NOVEMBER
FEASIBILITY OF USING AMATEX IN AIR FORCE SUBMUNITIONS, FEBRUARY 15 - NOVEMBER 30, 1974. 15-11

QUARTERLY PROGRESS REPORT OF LASL ROVER PROGRAM FOR THE PERIOD ENDING NOVEMBER 30, 1972. 30-69

NOZZLE
MONTE CARLO CALCULATION OF THE GAMMA RAY HEATING IN A PHOEBUS 1 NOZZLE FROM CORE SOURCES. 30-49

NP
HELIUM -3(GAMMA,NEUTRON) 2 PROTON AND HELIUM -3(GAMMA,PROTON) NP REACTIONS. 25-92

NS
PEAK IRRADIANCE MEASUREMENTS ON A 10 J, 1 NS, CARBON DIOXIDE LASER. 20-115

NU
OCTAHEDRAL FINE STRUCTURE SPLITTINGS IN NU(3) OF SULFUR HEXAFLUORIDE. 4-44

ON THE (NU(1)-2NU(2)) FERMI RESONANCE LEVELS IN CARBON DIOXIDE. 4-45

TEMPERATURE DEPENDENT ABSORPTION SPECTRUM OF THE NU(3) BAND OF SULFUR HEXAFLUORIDE AT 10.6 MICRONS. 20-150

PI-MINUS D TO GAMMA NN AND MU-MINUS D TO NU NN. 22-41

NEW HIGH PRECISION MEASUREMENT OF THE MUONIUM HYPERFINE STRUCTURE INTERVAL DELTA NU. 25-137

PRECISION MEASUREMENT OF 15(1/2) MUONIUM HYPERFINE STRUCTURE INTERVAL DELTA NU. 2. RESULTS. 25-179

NUCLEAR
CHEMICAL ANALYSIS OF NUCLEAR FUELS FOR MAJOR CONSTITUENTS. 2-4

DETERMINATION OF COMBINED SULFUR IN NUCLEAR REACTOR FUEL MATERIALS. 2-5

NUCLEAR RESONANCES IN HADRONIC ATOMS. 4-43

NUCLEAR MAGNETIC RESONANCE OF ROTATIONAL MOBILITY OF MOUSE HEMOGLOBIN LABELED WITH (2- CARBON -13) HISTIDINE. 5-106

PREPARATIVE METHODS FOR ANALYSIS OF DNA, PROTEIN AND NUCLEAR - TO - CYTOPLASMIC RATIOS IN NORMAL AND TUMOR CELL POPULATIONS. 5-118

RNA SYNTHESIS IN CHINESE HAMSTER CELLS. 3. NON-COORDINATE INCREASES DURING INTERPHASE IN SYNTHESIS RATES FOR INFORMOSOMAL, POLYSOMAL, AND HETEROGENEOUS NUCLEAR RNAS. 5-129

STRONTIUM -82 - RUBIDIUM -82 ISOTOPE GENERATOR FOR USE IN NUCLEAR MEDICINE. 5-138

CARBON -13 FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE STUDIES OF FRACTIONATED CANDIDA UTILIS MEMBRANES. 5-17

EXISTENCE OF A RESIDUAL NUCLEAR PROTEIN MATRIX IN CULTURED CHINESE HAMSTER CELLS. 5-64

IMPLICATIONS TO THE CTR COMMUNITY OF STANDARDIZATION IN NUCLEAR ANALYSIS CODES. 10-54

ENVIRONMENTAL GEOLOGY IN DEVELOPMENT OF NUCLEAR ENERGY. 11-14

DEVELOPMENT PROGRAM FOR THE HIGH TEMPERATURE NUCLEAR PROCESS HEAT SYSTEM. 12-6

NUCLEAR PROCESS HEAT. 13-11

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13: THE EFFECT OF TEMPERATURE AND LIGHT. 14-1

QUANTITATIVE ANALYSIS OF CARBON - CARBON COUPLING IN THE CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF MOLECULES BIOSYNTHESIZED FROM CARBON -13 ENRICHED PRECURSORS. 14-10

STRUCTURE AND HINDERED MOTION OF BORON (3) HYDROGEN(8) ANIONS IN SOLIDS: AN NMR (NUCLEAR MAGNETIC RESONANCE) STUDY. 14-12

STRUCTURE AND MOTION OF B3H8- ANIONS IN SOLIDS: A BORON AND PROTON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY. 14-13

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF (2- CARBON -13) CARBOXYMETHYLCYTOCHROME C. 14-2

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF WHOLE CELLS AND OF CYTOCHROME C FROM NEUROSOPORA CRASSA GROWN WITH CARBON -13 METHIONINE. 14-3

CARBON -13 NUCLEAR MAGNETIC RESONANCE STUDIES OF ADENOSYLCOBALAMIN AND ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13. 14-4

CARBON -13 PARTIALLY RELAXED FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF ORGANOCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13. 14-5

DIFFERENTIAL NUCLEAR OVERHAUSER ENHANCEMENT FOR CARBON -13 SINGLET AND CARBON -13 - CARBON -13 MULTIPLET RESONANCES OF A CARBONYL CARBON. 14-6

FOURIER TRANSFORM CARBON -13 NUCLEAR MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 1. EQUILIBRIUM QUOTIENTS FROM RELATIVE ABUNDANCES OF SOLUTION SPECIES. 14-7

INDUCED PARAMAGNETISM IN URANIUM ALLOYS: A BORON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY OF ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND YTTRIUM TETRABORIDE. 14-8

KINETIC PARAMETERS OF CARBONIC ANHYDRASE E BY CARBON -13 NUCLEAR MAGNETIC RESONANCE. 14-9

NUCLEAR CHARGE DISTRIBUTION IN FISSION SPECTRUM NEUTRON INDUCED FISSION FRACTIONAL CUMULATIVE YIELDS OF RARE GAS NUCLIDES FROM FISSION OF URANIUM -235 AND URANIUM -238. 16-10

DIRECT NUCLEAR PUMPING OF A HELIUM -XENON LASER. 20-26

OBSERVATION OF THE E2 NUCLEAR RESONANCE EFFECT IN PIONIC CADMIUM -112 22-34

CERAMICS FOR NUCLEAR APPLICATIONS. 23-3

ZIRCONIUM CARBIDE, A KEY INGREDIENT FOR HIGH TEMPERATURE NUCLEAR FUELS 23-65

LOS ALAMOS HANDBOOK OF NUCLEAR PHYSICS. 25-104

MACROSCOPIC AND MICROSCOPIC APPROACHES TO NUCLEAR DISSIPATION. 25-107

MICROSCOPIC THEORY OF NUCLEAR DISSIPATION. 25-118

MUONIC X RAY MEASUREMENTS OF NUCLEAR CHARGE RADII IN THE MASS 60 REGION 25-126

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT. QUARTERLY PROGRESS REPORT, OCTOBER 1 THROUGH DECEMBER 31, 1974. 25-13

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, APRIL 1 - JUNE 30, 1975 26-14

NUCLEAR CHARGE DISTRIBUTIONS IN THE MASS 60 REGION: NEW EVIDENCE FROM MUONIC ISOTOPE SHIFT MEASUREMENTS. 26-140

NUCLEAR CHARGE PARAMETERS FOR THE ODD-A ACTINIDES URANIUM -236 AND PLUTONIUM -239. 26-141

NUCLEAR DATA FOR CALCULATION OF RADIOACTIVITY EFFECTS. 25-142

NUCLEAR HYDRODYNAMICS. 25-143

NUCLEAR MATTER THEORY FOR PION SCATTERING FROM NUCLEI. 25-144

NUCLEAR MODELS AND DATA FOR GAMMA RAY PRODUCTION. 25-145

NUCLEAR ORIENTATION STUDY OF THE DECAY OF METASTABLE LUTETIUM -177. 25-146

NUCLEAR STRUCTURE STUDIES IN HEAVY DEFORMED NUCLEI USING MUONIC ATOMS. 25-147

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, JANUARY 1 - MARCH 31, 1975. 25-15

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, JULY 1 - SEPTEMBER 30, 1975. 25-16

PHOTON PROPAGATION IN NUCLEAR MATTER AND THE CORRECTION TO THE THEORETICAL NUCLEAR CHARGE DENSITY. 25-164

PROPRIETARY, STANDARD, AND GOVERNMENT SUPPORTED NUCLEAR DATA BASES. 25-180

BENCHMARK EXPERIMENTS FOR NUCLEAR DATA. 25-19

RADIOCHEMICAL STUDIES OF SOME LOW AND MEDIUM ENERGY NUCLEAR REACTIONS PRODUCED BY ACCELERATED TRITONS DEUTERONS, AND PROTONS. 25-194

TECHNIQUE FOR SIMULTANEOUS ADJUSTMENT OF LARGE NUCLEAR DATA LIBRARIES. 25-215

THEORY OF THE SCATTERING OF PIONS BY NUCLEAR MATTER. 25-219

TIME OF FLIGHT NEUTRON SPECTROSCOPY USING APPROXIMATELY 20 METER FLIGHT PATHS TO A NUCLEAR DEVICE. 25-223

CONSISTENCY AMONG DIFFERENTIAL NUCLEAR DATA AND INTEGRAL OBSERVATIONS: THE ALVIN CODE FOR DATA ADJUSTMENT, FOR SENSITIVITY CALCULATIONS, AND FOR IDENTIFICATION OF INCONSISTENT DATA. 25-36

EFFECTIVE TWO BODY INTERACTION IN SIMPLE NUCLEAR SPECTRA. 25-53

ABSOLUTE CROSS SECTIONS FOR PRODUCTION OF PROMPT NUCLEAR GAMMA RAYS BY FAST PIONS. 25-7

EXCHANGE EFFECTS FROM WEAK RADIATIVE MESONIC TRANSITIONS IN PARITY VIOLATING NUCLEAR PROCESSES. 25-71

EXPERIMENTAL SEARCH FOR CONDENSED NUCLEAR STATES. 25-75

HADRONIC ATOMS AND TICKLISH NUCLEI: THE E2 NUCLEAR RESONANCE EFFECT 25-88

HADRONIC ATOMS AND TICKLISH NUCLEI: THE E2 NUCLEAR RESONANCE EFFECT 25-89

HIGH ENERGY NUCLEAR REACTIONS IN OUR PLANETARY SYSTEM. 25-93

HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS. 25-94

AUTOMATED NONDESTRUCTIVE ASSAY INSTRUMENTATION FOR NUCLEAR MATERIALS SAFEGUARDS. 26-1

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT. PROGRAM STATUS REPORT, JANUARY - APRIL 1975. 26-17

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT. PROGRAM STATUS REPORT, SEPTEMBER - DECEMBER 1974. 26-19

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT PROGRAM STATUS REPORT, SEPTEMBER -DECEMBER 1973. 26-19

SAFEGUARDS ASPECTS OF SPENT NUCLEAR FUEL. 26-26

GUIDE TO GAMMA RAY ASSAY FOR NUCLEAR MATERIAL ACCOUNTABILITY. 26-6

GRAPHITE FUELS FOR THE NUCLEAR ROCKET ENGINE. 26-16

HIGH TEMPERATURE NUCLEAR REACTORS AS AN ENERGY SOURCE FOR HYDROGEN PRODUCTION. 26-17

COMPARISON OF U.S. - ALLIED AND SOVIET TACTICAL NUCLEAR FORCE CAPABILITIES AND POLICIES. 30-12

CONCERNS OF INTERVENORS IN NUCLEAR POWER PLANT LICENSING HEARINGS 30-14

HYDROGEN AND FOOD FROM NUCLEAR HEAT AND MUNICIPAL WASTES. 30-32

WAR WITH NUCLEAR EXPLOSION SPACE - TIME RELATIONSHIPS. 30-34

JULY 16TH NUCLEAR EXPLOSION. BLAST MEASUREMENTS WITH CONDENSER GAUGES 30-35

KIWI TRANSIENT NUCLEAR TEST. 30-36

LASL PANEL ON TACTICAL NUCLEAR WARFARE. REPORT OF THE THIRD MEETING, MAY 14-15, 1974. 30-39

NUCLEAR EXOPULSION TECHNOLOGY TRANSFER TO ENERGY SYSTEMS. 30-51

NUCLEAR WEAPONS, THEIR ROLE IN U. S. POLITICAL AND MILITARY POSTURE, AND AN EXAMPLE. 30-52

ON CONTAINING A NUCLEAR EXPLOSION. 30-54

PROCEEDINGS OF AN ADVANCED NUCLEAR PROPULSION SYMPOSIUM. 30-65

REVIEW OF FUEL ELEMENT DEVELOPMENT FOR NUCLEAR ROCKET ENGINES. 30-80

NUCLEI
ELECTRON SCATTERING FROM ATOMS, NUCLEI AND NUCLEONS. 4-16

(PI-PLUS,PP) REACTION ON SEVERAL LIGHT NUCLEI 22-1

MEASUREMENT OF THE 0 DEGREE NEUTRON SPECTRA FROM 647 AND 800 MEV PROTON BOMBARDMENT OF LIGHT NUCLEI. 22-27

MEASUREMENT AND INTERPRETATION OF GAMMA(N)/GAMMA(F) FOR ACTINIDE NUCLEI. 25-111

MECHANISM OF HEAVY ION REACTIONS AND THE PRODUCTION OF SUPERHEAVY NUCLEI. 25-116

ANGULAR MOMENTUM EFFECTS IN THE SPECTRA OF RESIDUAL NUCLEI. 25-12

MUONIC ISOTOPE SHIFTS IN THE EVEN IRON NUCLEI. 25-125

MUONIC X RAYS FROM THE TRANSITION NUCLEI PLATINUM -194, 196, 198. 25-127

NON-EIKONAL APPROACH TO THE SCATTERING OF HADRONS FROM NUCLEI. 2. PROTON AND PION SCATTERING FROM DEUTERIUM, HELIUM -3 AND HELIUM -4. 25-139

NUCLEAR MATTER THEORY FOR PION SCATTERING FROM NUCLEI. 25-144

NUCLEAR STRUCTURE STUDIES IN HEAVY DEFORMED NUCLEI USING MUONIC ATOMS 25-147

PION CHARGE EXCHANGE REACTIONS WITH NUCLEI. 25-162

PION CHARGE EXCHANGE SCATTERING FROM LIGHT NUCLEI. 25-169

PION SCATTERING FROM LIGHT NUCLEI 25-173

ROLE OF TWO NUCLEON SHORT RANGE CORRELATIONS IN PION CHARGE EXCHANGE REACTIONS WITH NUCLEI. 25-198

SEMICLASSICAL MODEL FOR PION PRODUCTION BY NEUTRONS ON NUCLEI. 25-203

SURVEY OF PION CHARGE EXCHANGE REACTIONS WITH NUCLEI 25-213

COMPARISON OF (TRITON,HELIUM -3), (HELIUM -3,TRITON) AND (HELIUM -3,PROTON) REACTIONS OF F-P SHELL NUCLEI. 25-32

EFFECTS OF PION MULTIPLE SCATTERING ON THE DISTRIBUTION OF RESIDUAL NUCLEI 25-55

ELASTICITY IN THE RESPONSE OF NUCLEI 25-60

EQUILIBRIUM DEFORMATIONS AND EXCITATION ENERGIES FOR NONCOLLECTIVE STATES IN ODD Z RARE EARTH NUCLEI. 25-67

FAST PION INDUCED PROCESSES IN COMPLEX NUCLEI. CROSS SECTION AND ALPHA REMOVAL. 25-79

GAMMA(F)/GAMMA(N) FOR ACTINIDE NUCLEI. 25-86

HADRONIC ATOMS AND TICKLISH NUCLEI. THE E2 NUCLEAR RESONANCE EFFECT 25-89

HADRONIC ATOMS AND TICKLISH NUCLEI. THE E2 NUCLEAR RESONANCE EFFECT 25-89

IMPORTANCE OF THE QUADRUPOLE PAIRING FIELD IN THE J(PI)=0(+) VIBRATIONS OF SHAPE DEFORMED NUCLEI 25-97

NUCLEON
LOW ENERGY PION - NUCLEON AND PION -DEUTERON INTERACTIONS 25-105

LOW LYING LEVELS OF FIVE NUCLEON SYSTEMS 25-108

PARITY NONCONSERVATION IN TWO NUCLEON SYSTEMS. 25-184

(0) TIME SALPETER EQUATION FOR NUCLEON -NUCLEON SCATTERING: MATRIX (V)(0) APPROXIMANTS. 2 25-20

CONSTRAINTS ON WAVE FUNCTION MODELS OF THE NUCLEON - NUCLEON T MATRIX 25-37

COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATION FOR THE FULLY OFF SHELL TWO NUCLEON T MATRIX. 25-38

EFFECTS OF NUCLEON CHARGE EXCHANGE ON THE PION KNOCKOUT PUZZLE. 25-54

EXPANSION OF THE NUCLEON - NUCLEON SCATTERING AMPLITUDE IN EXCHANGED PARTIAL WAVES. 25-73

EXPANSION OF THE NUCLEON - NUCLEON SCATTERING AMPLITUDE IN EXCHANGED PARTIAL WAVES. 25-73

FAST NUCLEON CAPTURE AS A METHOD FOR INVESTIGATION OF GIANT QUADRUPOLE RESONANCES. 25-78

HYDROGEN -3 - HELIUM -3 BINDING ENERGY DIFFERENCE AND POSSIBLE CHARGE ASYMMETRY EFFECTS IN THE NUCLEON - NUCLEON FORCE. 25-95

HYDROGEN -3 - HELIUM -3 BINDING ENERGY DIFFERENCE AND POSSIBLE CHARGE ASYMMETRY EFFECTS IN THE NUCLEON - NUCLEON FORCE. 25-95

NUCLEONIC
NUCLEONIC DESIGN SENSITIVITY ANALYSIS FOR THE REFERENCE THETA PINCH REACTOR (RTPR). 10-86

NUCLEONS
ELECTRON SCATTERING FROM ATOMS, NUCLEI AND NUCLEONS. 4-16

NUCLEOSYNTHESIS
KILOVOLT SULFUR -33 (NEUTRON,ALPHA-0) AND SULFUR -33 (NEUTRON,GAMMA) CROSS SECTIONS: IMPORTANCE IN THE NUCLEOSYNTHESIS OF THE RARE NUCLEUS SULFUR -36. 25-101

NUCLEUS
COMPARISON OF THE LANGER, ROSEN, NOLAN-POLLAK, AND SANDS CONDENSATION NUCLEUS COUNTERS. 1-1

INELASTIC PION - NUCLEUS SCATTERING IN DWIA. 22-20

KILOVOLT SULFUR -33 (NEUTRON,ALPHA-0) AND SULFUR -33 (NEUTRON,GAMMA) CROSS SECTIONS: IMPORTANCE IN THE NUCLEOSYNTHESIS OF THE RARE NUCLEUS SULFUR -36. 25-101

PARITY NONCONSERVATION IN PROTON - PROTON AND PROTON - NUCLEUS SCATTERING 25-153

PROTON - NUCLEUS SCATTERING AT INTERMEDIATE ENERGIES. 25-181

SIMPLE OPTICAL MODEL FOR PION - NUCLEUS SCATTERING. 25-205

TESTS OF PARITY CONSERVATION IN PROTON -PROTON AND PROTON - NUCLEUS SCATTERING. 25-218

NUCLIDE
ENDF/B IV FISSION PRODUCT FILES: SUMMARY OF MAJOR NUCLIDE DATA. 25-63

RELEVANCE OF NUCLIDE MIGRATION AT OKLO TO THE PROBLEM OF GEOLOGIC STORAGE OF RADIOACTIVE WASTE. 30-78

NUCLIDES
NUCLEAR CHARGE DISTRIBUTION IN FISSION SPECTRUM NEUTRON INDUCED FISSION. FRACTIONAL CUMULATIVE YIELDS OF RARE GAS NUCLIDES FROM FISSION OF URANIUM -235 AND URANIUM -238. 16-10

SYSTEMATICS OF PION AND PROTON INTERACTIONS WITH NICKEL NUCLIDES. 25-214

NUMBER
STANDING WAVES AT LOW MACH NUMBER LAMINAR BOW SHOCKS. 1-28

CELLULAR DNA CONTENT AND CHROMOSOME NUMBER IN HETEROPLOID CELL POPULATIONS 5-31

COHERENT DRUGS ARREST CELLS AT A NUMBER OF DISTINCT STAGES IN G-2 5-53

DIFFUSION OF A PASSIVE SCALAR AT LARGE PRANDTL NUMBER ACCORDING TO THE ABRIDGED LAGRANGIAN INTERACTION THEORY. 18-10

PROPER CALCULATION OF THE FRACTIONAL ORDER NUMBER AT THE CENTER OF A FABRY PEROT INTERFEROMETER FRINGE SYSTEM. 18-16

MASS NUMBER DEPENDENCE OF THE PION -NUCLEUS SCATTERING LENGTHS. 25-109

NUMBERS
HYDRATION ENERGIES AND SPECIFIC INFLUENCE OF OXO COMPLEXES AND HIGH COORDINATION NUMBERS ON THE PREDICTED CHEMISTRY OF SUPERHEAVY ELEMENTS 7-9

ALGORITHMS TO REVEAL THE REPRESENTATION OF CHARACTERS, INTEGERS AND FLOATING POINT NUMBERS. 21-2

CONTINUED FRACTION EXPANSION OF ALGEBRAIC NUMBERS. 21-36

REAL NUMBERS AS A WREATH PRODUCT. 21-68

NUMERICAL
GENERAL NUMERICAL FLUID DYNAMICS ALGORITHM FOR ASTROPHYSICAL APPLICATIONS. 3-17

NUMERICAL STUDY OF PULSATILE FLOW THROUGH CONSTRICTED ARTERIES. 5-107

CANONICAL MOMENTA AND NUMERICAL INSTABILITIES IN PARTICLE CODES. 10-4

NUMERICAL MODELING OF MAGNETIC IMPLOSION HEATING AND FIELD DIFFUSION IN PINCHES. 10-87

NUMERICAL SIMULATION OF THE LOWER HYBRID DRIFT INSTABILITY. 10-88

NUMERICAL SIMULATION OF THE LOWER HYBRID DRIFT INSTABILITY. 10-89

NUMERICAL STUDIES OF THE LINEAR THETA PINCH. 10-90

LABORATORY AND NUMERICAL STUDIES OF WATER - GRANITE INTERACTIONS AT ELEVATED TEMPERATURE AND PRESSURE. 11-25

NUMERICAL STUDIES OF THE THERMAL EVOLUTION OF INTRUSIONS IN RELATIONSHIP TO OBSERVED TEMPERATURES IN GT-2. 11-34

NUMERICAL CALCULATION OF FLASHING FROM LONG PIPES USING A TWO FIELD MODEL. 18-26

NUMERICAL CALCULATION OF MULTIPHASE FLUID FLOW. 18-27

NUMERICAL CALCULATION OF THE CYLINDER TEST. 18-28

NUMERICAL CALCULATION OF TWO PHASE FLOWS. 18-29

NUMERICAL METHOD FOR STUDYING THE CIRCULATION PATTERNS OF A FLUID IN A CAVITY. 18-30

NUMERICAL METHODS FOR SOLUTION OF THE INTEGRAL EQUATIONS OF MULTI-DIMENSIONAL RADIATION TRANSPORT. 18-31

NUMERICAL METHODS IN FLUID DYNAMICS. 1974. 4TH INTERNATIONAL CONFERENCE, BOULDER PROCEEDINGS, LECTURE NOTES IN PHYSICS, V.35 18-32

NUMERICAL SIMULATION OF FLOW IN AN UNWRAPPED DOWNCOMER. 18-33

SIMULATION OF THE TWO STREAM INSTABILITY WITH FOUR NUMERICAL MODELS 18-45

SOLA - A NUMERICAL SOLUTION ALGORITHM FOR TRANSIENT FLUID FLOWS. 18-47

NUMERICAL STUDIES OF THE INTERPLAY BETWEEN SELF PHASE MODULATION AND DISPERSION FOR INTENSE PLANE WAVE LASER PULSES. 20-106

NUMERICAL COMPARISON OF INTEGRAL EQUATIONS OF THE FIRST AND SECOND KIND FOR CONFORMAL MAPPING. 21-54

NUMERICAL EVALUATION OF THE AZIMUTHALLY DEPENDENT ALBEDO PROBLEM IN SLAB GEOMETRY 21-55

NUMERICAL METHODS FOR CONSERVATION LAWS. 21-56

NUMERICAL METHODS. LOS ALAMOS TECHNICAL SERIES, VOLUME 2, PART 1, CHAPTERS 1-5 21-57

NUMERICAL METHODS LOS ALAMOS TECHNICAL SERIES, VOLUME 2, PART 2, CHAPTERS 6-8 21-58

OBLIQUE
OBLIQUE SHOCKS IN A MAGNETIZED PLASMA. 10-91

OBLIQUELY
TWO DIMENSIONAL STABILITY OF AN ELECTROMAGNETIC WAVE OBLIQUELY INCIDENT ON A NONUNIFORM PLASMA. 10-153

OBSERVATIONS
RECENT OBSERVATIONS RELATING TO THE DYNAMICS AND ORIGIN OF THE MAGNETOTAIL PLASMA SHEET. 1-22

CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES 1 AIRBORNE INSTRUMENTATION AND RESULTS. 3-10

CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES 2 30 MAY 1965 RESULTS, DECONVOLUTION AND INTERPRETATION 3-11

IMAGE INTENSIFICATION AND VIDEO RECORDING SYSTEM FOR ASTRONOMICAL OBSERVATIONS 3-22

LIMIT ON THE PHOTON MASS DEDUCED FROM PIONEER 10 OBSERVATIONS OF JUPITER'S MAGNETIC FIELD. 3-24

OBSERVATIONS OF COSMIC GAMMA RAY BURSTS. 3-30

OBSERVATIONS OF GAMMA RAY BURSTS. 3-31

SUGGESTED OBSERVATIONS OF SUPERNOVA REMNANTS IN THE LARGE MAGELLANIC CLOUD. 3-43

SOME OBSERVATIONS ON THE COMPARATIVE EFFECTS OF INBREEDING AND WHOLE BODY X RAY EXPOSURE TO SEVENTY GENERATIONS OF MICE. 5-134

SOME OBSERVATIONS OF LOCAL WIND INTERACTIONS IN COMPLEX TERRAIN. 11-55

OBSERVATIONS OF EXCITED STATE ABSORPTION IN ED-2 NEODYMIUM GLASS. 20-106

FAILURE OBSERVATIONS ON ENCAPSULATED EXPERIMENTAL MARK-II FUEL ELEMENTS IRRADIATED IN EBR-II. 23-21

CONSISTENCY AMONG DIFFERENTIAL NUCLEAR DATA AND INTEGRAL OBSERVATIONS: THE ALVIN CODE FOR DATA ADJUSTMENT, FOR SENSITIVITY CALCULATIONS, AND FOR IDENTIFICATION OF INCONSISTENT DATA. 25-36

PHOTOELECTRIC OBSERVATIONS OF BOMB FLASHES AT A LONG DISTANCE. 30-60

OBTAIN
USE OF TWO ANGLE ELASTIC AND RAMAN SCATTERING TO OBTAIN MOLECULAR DENSITY AND AEROSOL SCATTERING PROFILES. 1-31

OCCUPATIONAL
PLUTONIUM: ASSESSMENT OF THE OCCUPATIONAL ENVIRONMENT. 17-44

OCCUPATIONALLY
URANIUM IN THE TISSUE OF OCCUPATIONALLY EXPOSED WORKERS. 5-145

OCEAN
RADON -222 FROM THE OCEAN SURFACE. 11-44

LIMITED EVALUATION OF THE CORROSION OF URANIUM AND WEAPON ASSOCIATED METALS IN SUBSTITUTE OCEAN WATER. 23-33

OCTAHEDRAL
OCTAHEDRAL FINE STRUCTURE SPLITTINGS IN NU(3) OF SULFUR HEXAFLUORIDE. 4-44

STATISTICAL WEIGHTS FOR OCTAHEDRAL SPHERICAL TOP MOLECULES. 4-65

OCTOBER
LASL NIOBIUM(3)GERMANIUM CONDUCTOR DEVELOPMENT, AUGUST 1 - OCTOBER 31, 1975. 8-23

SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, OCTOBER 1 - DECEMBER 31, 1974. 8-48

USERDA DIVISION OF ELECTRIC POWER TRANSMISSION AND DISTRIBUTION DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1974. 8-60

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES OCTOBER 1 - DECEMBER 31, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-20

QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1974. 22-48

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT. QUARTERLY PROGRESS REPORT, OCTOBER 1 THROUGH DECEMBER 31, 1974. 25-13

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-33

QUARTERLY REPORT. HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, OCTOBER THROUGH DECEMBER 1974. 28-34

QUARTERLY REPORT. TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY. OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-35

OCTUPOLE
REFINEMENT OF THE CRYSTAL STRUCTURE OF MELAMINE, 2,4,6- TRIAMINO S-TRIAZINE, USING GENERALIZED SCATTERING FACTORS AT THE OCTUPOLE LEVEL. 9-21

ODD
EQUILIBRIUM DEFORMATIONS AND EXCITATION ENERGIES FOR NONCOLLECTIVE STATES IN ODD Z RARE EARTH NUCLEI. 25-67

ODD-A
NUCLEAR CHARGE PARAMETERS FOR THE ODD-A ACTINIDES URANIUM -235 AND PLUTONIUM -239. 25-141

OFF
COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATION FOR THE FULLY OFF SHELL TWO NUCLEON T MATRIX. 25-38

DEPENDENCE OF THE OFF ENERGY SHELL T MATRIX ON THE TOTAL THREE MOMENTUM. 25-45

OFF-SHELL
OFF-SHELL EFFECTS IN THE REACTION PROTON + PROTON TO NEUTRON + PROTON + POSITIVE PION. 22-35

OFFSET
DISTORTION AND NOISE INDUCED DC OFFSET IN OPERATIONAL AMPLIFIERS. 13-3

LOGNORMAL DAMAGE FUNCTION WITH OFFSET CIRCULAR NORMAL TARGET AND WEAPON LOCATIONS: MEAN AND OTHER MOMENTS. 30-43

OKLO
RELEVANCE OF NUCLIDE MIGRATION AT OKLO TO THE PROBLEM OF GEOLOGIC STORAGE OF RADIOACTIVE WASTE. 30-78

SOME U. S STUDIES OF THE OKLO PHENOMENON. 30-84

OLD
DEMOLITION OF BUILDING 12, AN OLD PLUTONIUM FILTER FACILITY. 17-8

DEMOLITION OF BUILDING 12, AN OLD PLUTONIUM FILTER FACILITY. 17-9

OMNIBUS
OMNIBUS ENVIRONMENTAL ASSESSMENT. 30-53

ON-AXIS
ADAPTIVE CONTROL TECHNIQUES FOR ON-AXIS RADARS. 13-1

ON-LINE
PHYSICAL METHODS FOR RAPID ON-LINE DETECTION OF TRICHINELLA IN PORK 5-112

ON-LINE PLASMA BETA CALCULATION. 19-93

ON-LINE INTERNAL CONVERSION COEFFICIENTS FOR THE DECAYS OF MASS SEPARATED KRYPTON -91 AND RUBIDIUM -91. 25-149

ONE
RESONANT LINE AND SATELLITE SPECTRA FROM ONE, TWO, AND THREE ELECTRON IONS IN LASER GENERATED PLASMAS. 4-57

NONSTEADY STATE DETONATIONS IN ONE DIMENSIONAL PLANE, DIVERGING, AND CONVERGING GEOMETRIES. 15-18

ONE DIMENSIONAL CALCULATIONS OF SHOCK LOADED POLYCRYSTALLINE BERYLLIUM 18-34

PAD, A ONE DIMENSIONAL LAGRANGIAN HYDROCODE. 15-35

COLLISIONAL DAMPING OF LANGMUIR WAVES IN ONE DIMENSIONAL PLASMA SIMULATIONS. 20-19

ONE DIMENSIONAL ELASTIC - PLASTIC CALCULATIONS INVOLVING STRAIN HARDENING AND STRAIN RATE EFFECTS FOR ALUMINUM. 23-44

ONE DIMENSIONAL ELASTIC - PLASTIC CALCULATIONS INVOLVING STRAIN HARDENING AND STRAIN RATE EFFECTS FOR ALUMINUM. 23-45

ONETRAN A DISCRETE ORDINATES FINITE ELEMENT CODE FOR THE SOLUTION OF THE ONE DIMENSIONAL MULTIGROUP TRANSPORT EQUATION. 24-17

SCALING OF A BLAST FROM ONE MEDIUM TO ANOTHER. 30-81

ONETRAN
ONETRAN: A DISCRETE ORDINATES FINITE ELEMENT CODE FOR THE SOLUTION OF THE ONE DIMENSIONAL MULTIGROUP TRANSPORT EQUATION. 24-17

ONSET
ONSET CRITERIA FOR INSULATING ELECTRONIC TRANSITIONS IN THREE DIMENSIONAL SYSTEMS. 27-12

OOSIK
L = 6.6 OOSIK BARIUM PLASMA INJECTION EXPERIMENT AND MAGNETIC STORM OF MARCH 7, 1972. 1-16

OPACITIES
ELECTRON BINDING EFFECTS ON SCATTERING CONTRIBUTION TO MONOCHROMATIC AND MEAN OPACITIES. 4-14

OPACITY
IMPROVED OPACITY CALCULATIONS. 3-23

IMPROVED OPACITY CALCULATIONS. 4-31

OPENING
CELL CYCLE ANALYSIS: OPENING REMARKS. 5-21

OPERATING
OPERATING EXPERIENCE WITH A LIQUID HYDROGEN FUELED VEHICLE. 8-34

INSTRUMENTATION OPERATING EXPERIENCE ON LAMPF MAIN BEAM LINES. 22-21

OPERATING EXPERIENCE WITH LAMPF MAIN BEAM LINES INSTRUMENTATION AND CONTROL SYSTEM. 22-36

OPERATION
SILICA IN WATER IN RELATION TO COOLING TOWER OPERATION. 2-26

COOLING TOWER MODIFICATION FOR INTERMITTENT OPERATION. 13-2

PULSE COMPRESSION FOR MORE EFFICIENT OPERATION OF SOLID STATE LASER AMPLIFIER CHAINS, 2. 20-122

SCALING AND EFFICIENT OPERATION OF THE 1720 A XENON LASER. 20-135

MULTILINE OPERATION OF A CARBON DIOXIDE OSCILLATOR/AMPLIFIER SYSTEM. 20-98

LAMPF MUON CHANNEL OPERATION. 22-24

OPERATIONAL
DISTORTION AND NOISE INDUCED DC OFFSET IN OPERATIONAL AMPLIFIERS. 13-3

VENTILATION DESIGN MODIFICATIONS AT LOS ALAMOS SCIENTIFIC LABORATORY MAJOR PLUTONIUM OPERATIONAL AREAS. 17-61

OPERATIONS
RADIOACTIVE WASTE OUTPUT FROM LASER -FUSION GENERATING STATIONS DURING NORMAL OPERATIONS. 20-127

DIRECT SOLUTION OF THE DISCRETE POISSON EQUATION IN O(N-SQUARED) OPERATIONS. 20-27

USE OF URANIUM -237 TRACER IN MONITORING PLUTONIUM SCRAP RECOVERY OPERATIONS. 23-62

OPERATORS
INCREASING THE RELEVANCE OF DATA PRESENTED TO THE OPERATORS IN AN ACCELERATOR CONTROL SYSTEM. 22-19

OPPORTUNITIES
GOLDEN OPPORTUNITIES. 30-31

OPTICAL
RESULTS OF X RAY AND OPTICAL MONITORING OF SCORPIUS X-1 IN 1970. 3-39

ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF DICHLORODIOXOMANGANESE(VI). 4-18

ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF MANGANESE(V) OXYTRICHLORIDE. 4-19

HIGH SPEED OPTICAL ANALYSIS OF MICROSCOPIC PARTICLES. 5-75

OPTICAL AND MORPHOLOGICAL CRYSTALLOGRAPHY OF PLUTONIUM COMPOUNDS. 9-16

OPTICAL DIAGNOSTICS OF THE SCYLLAC CTR DEVICE: A CASE STUDY. 10-94

OPTICAL DIAGNOSTICS ON SCYLLAC. 10-95

NEW COMPUTER TECHNIQUE FOR NONLINEAR OPTICAL PROBLEMS. 20-101

OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 1. CANTED AND PARALLEL MIRRORS. 20-107

OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 2. PARALLEL MIRRORS, MULTITRAVEL. 20-108

OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 3. ASYMMETRIC CONFOCAL RESONATOR. 20-109

OPTICAL METHODS IN ENERGY CONVERSION, SPIE SEMINAR IN DEPTH, ROCHESTER, 23-25 JUNE 1975. 20-110

OPTICAL QUALITY STUDY OF THE LASL CARBON DIOXIDE LASER AMPLIFIER SYSTEM. 20-111

DIFFRACTION EFFECTS AND OPTICAL QUALITY IN THE MULTISTAGE AMPLIFICATION OF NANOSECOND CARBON DIOXIDE PULSES. 20-24

EFFECT OF REFRACTIVE INDEX NONLINEARITY ON THE OPTICAL QUALITY OF HIGH POWER LASER BEAMS. 20-29

HYBRID DIGITAL/OPTICAL SYSTEMS FOR NONLINEAR IMAGE RESTORATION. 21-40

OPTICAL MODEL POTENTIALS FOR DEUTERONS, TRITONS AND HELIONS. 25-150

POLARIZATION MEASUREMENTS AND OPTICAL MODEL POTENTIAL FOR TRITONS. 25-175

SIMPLE OPTICAL MODEL FOR PION - NUCLEUS SCATTERING. 25-205

FITPI: MODIFICATIONS TO THE OPTICAL MODEL PROGRAM PIRK FOR PARAMETER SEARCHES AND TOTAL CROSS SECTIONS. 29-3

OPTICS
INTEGRATING ECLIPSE OPTICS INTO THE AEC AIR FORCE FLYING LABORATORY. 19-10

OPTICS IN LASER PRODUCED PLASMAS. 20-112

ACTIVE CORRECTIVE ELEMENT FOR HIGH RESOLUTION MAGNETIC OPTICS. 22-2

OPTIMALLY
HYDRODYNAMICS AND BURN OF OPTIMALLY IMPLODED DEUTERIUM - TRITIUM SPHERES. 20-51

OPTIMIZATION
THIN WINDOWS FOR GASEOUS AND LIQUID TARGETS: AN OPTIMIZATION PROCEDURE. 8-56

OPTIMUM
GENERATION OF LASER PULSES FOR OPTIMUM ABLATIVE COMPRESSIONS. 20-47

OPTION
OPTION: A COMPUTER CODE TO SOLVE STEADY STATE FLUID THERMAL ENGINEERING PROBLEMS. 21-62

ORALLOY
NEUTRON SPECTRUM FROM AN ORALLOY SPHERE. 25-136

ORBITAL
GEOCHEMICAL MAPPING OF THE MOON BY ORBITAL GAMMA RAY SPECTROSCOPY. 3-18

ORBITER
PRELIMINARY DESIGN AND PERFORMANCE OF AN ADVANCED GAMMA RAY SPECTROMETER FOR FUTURE ORBITER MISSIONS. 3-35

ORDER
HIGH ORDER VACUUM POLARIZATION IN EXOTIC ATOMS. 4-27

HIGHER ORDER CORRECTIONS TO ENERGY LEVELS OF MUONIC ATOMS. 4-28

SPONTANEOUS MAGNETIC ORDER IN EXTREMELY DILUTE GOLD - IRON ALLOYS. 8-42

PROPER CALCULATION OF THE FRACTIONAL ORDER NUMBER AT THE CENTER OF A FABRY-PEROT INTERFEROMETER FRINGE SYSTEM. 19-16

LASER PHASE TRANSITION ANALOGY: APPLICATION TO FIRST ORDER TRANSITIONS. 20-79

POINCARE GENERATORS AND FW TRANSFORMATIONS FOR BHABHA FIRST ORDER FIELDS. 25-174

RELATIVISTIC SECOND ORDER ENERGY FUNCTIONAL FOR FINITE FERMION SYSTEMS. 25-196

RELATIVISTIC SECOND ORDER ENERGY IN INFINITE FERMION MATTER. 25-197

BHABHA FIRST ORDER WAVE EQUATIONS. 2. MASS AND SPIN COMPOSITION, HAMILTONIANS, AND GENERAL SAKATA-TAKETANI REDUCTIONS. 25-21

BHABHA FIRST ORDER WAVE EQUATIONS. 3. POINCARE GENERATORS. 25-22

EVIDENCE FOR ORDER DISORDER IN PLUTONIUM CARBIDE (0.80) AT LOW TEMPERATURES THROUGH SPECIFIC HEAT MEASUREMENTS. 29-2

ORDERED
THERMAL BEHAVIOR OF ORDERED LIQUID HELIUM -3. 8-54

ORDERING
TIME ORDERING OF HIGH ENERGY MULTIPARTICLE PRODUCTION. 25-224

ORDINARY
TEMPERATURE DEPENDENT ORDINARY AND THERMAL DIFFUSION OF TRITIUM THROUGH METAL BARRIERS. 20-151

ORDINATE
DISCRETE ORDINATE TO SPHERICAL HARMONIC CONVERSIONS FOR RAY EFFECT MITIGATION IN X-Y GEOMETRY. 24-9

ORDINATES
ONEDRAN: A DISCRETE ORDINATES FINITE ELEMENT CODE FOR THE SOLUTION OF THE ONE DIMENSIONAL MULTIGROUP TRANSPORT EQUATION. 24-17

ORE
COMPARISON OF COPPER AND GOLD ORE RESPONSES TO NEUTRON CAPTURE AND DECAY GAMMA RAY TECHNIQUES WITH CALIFORNIUM -252. 25-33

ORGAN
IMPORTANCE OF NONUNIFORM DOSE DISTRIBUTION IN AN ORGAN. 5-78

ORGANICS
VAPOR PHASE COATINGS OF METALS AND ORGANICS FOR LASER FUSION TARGET APPLICATIONS. 23-63

ORGANIZING
ORGANIZING A WARTIME LABORATORY. 30-55

ORGANOCORRINOIDS
CARBON -13 PARTIALLY RELAXED FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF ORGANOCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13. 14-5

ORGANOPHOSPHINE
INTERACTIONS OF SULFUR CONTAINING SMALL MOLECULES WITH ORGANOPHOSPHINE COPPER(I) COMPLEXES. 2-13

ORIENTATION
NUCLEAR ORIENTATION STUDY OF THE DECAY OF METASTABLE LUTETIUM -177 25-148

ORIGIN
RECENT OBSERVATIONS RELATING TO THE DYNAMICS AND ORIGIN OF THE MAGNETOTAIL PLASMA SHEET. 1-22

ORIGIN OF AXIAL CURRENT IN SCYLLAC. 10-96

MAGMA CONTAMINATION WITHIN THE VOLCANIC PILE: ORIGIN OF ANDESITE AND DACITE: COMMENT AND REPLY. 11-26

ORIGIN OF ANDESITE AND DACITE: EVIDENCE OF MIXING AT GLASS MOUNTAIN IN CALIFORNIA AND OTHER CIRCUM-PACIFIC VOLCANOES. 11-35

ORIGIN OF CURRENT STANDARDS. 17-33

ORTHOGONAL
NOISE IMMUNITY IN DIGITAL COMMUNICATION BY USE OF ORTHOGONAL SIGNAL CORRELATION AND WALSH FUNCTIONS. 19-15

ORTHOHYDROGEN
CONVERSION OF PARA TO ORTHOHYDROGEN IN A GAMMA RAY AND NEUTRON RADIATION FIELD. 8-7

OSCILLATIONS
FORCED OSCILLATIONS OF THE LOS ALAMOS SCIENTIFIC LABORATORY'S DRY HOT ROCK GEOTHERMAL RESERVOIR. 11-17

OSCILLATOR
OSCILLATOR STRENGTHS FROM LINE ABSORPTION IN A HIGH TEMPERATURE FURNACE. 2. THE (0,0) BAND OF THE B(2)SIGMA(+) -X(2)SIGMA (+) TRANSITION IN CYANOGEN. 4-48

PULSED HYDROGEN FLUORIDE LASER OSCILLATOR AMPLIFIER EXPERIMENTS. 20-124

LASER FUSION EXPERIMENTS AT LOS ALAMOS. PART 2: THE LASL CARBON DIOXIDE SHORT PULSE OSCILLATOR - AMPLIFIER SYSTEM. 20-70

MODELOCKED, MULTILINE PULSED CARBON DIOXIDE OSCILLATOR. 20-96

MULTIBAND CARBON DIOXIDE OSCILLATOR. 20-97

MULTILINE OPERATION OF A CARBON DIOXIDE OSCILLATOR/AMPLIFIER SYSTEM. 20-98

OSHA
RESPIRATORY PROTECTION: OSHA AND THE SMALL BUSINESSMAN. 17-50

OSMIUM
LOSS OF OSMIUM DURING FUSION OF GEOLOGICAL MATERIALS. 2-16

REDUCTIVE SYNTHESES OF TRANSITION METAL FLUORIDE COMPOUNDS. THE SYNTHESIS OF RHENIUM, OSMIUM AND IRIDIUM PENTAFLUORIDES AND TETRAFLUORIDES. 7-16

SEARCH FOR ALPHA DECAY IN NATURAL OSMIUM -186. 25-200

OTS
SPECTRAL OBSERVATION OF ELECTROMAGNETIC WAVE DECAY DUE TO THE OTS AND DECAY PARAMETRIC INSTABILITIES. 10-126

OUR
HIGH ENERGY NUCLEAR REACTIONS IN OUR PLANETARY SYSTEM. 25-93

OUTER
ABSOLUTE INTENSITIES OF THE OUTER CORONA FROM THE JUNE 30, 1973 TOTAL SOLAR ECLIPSE. 3-1

OUTPUT
TWO DIMENSIONAL EFFECTS ON THERMAL OUTPUT. 18-53

RADIOACTIVE WASTE OUTPUT FROM LASER -FUSION GENERATING STATIONS DURING NORMAL OPERATIONS. 20-127

TIME RESOLVED OUTPUT SPECTRUM FROM A HYDROGEN FLUORIDE LASER USING MIXTURES OF SULFUR HEXAFLUORIDE AND HYDROGEN IODIDE. 20-156

FTRCOL: A COMPUTER CODE TO GROUP COLLAPSE FTR FILES AND OUTPUT STANDARD CCCC INTERFACE FILES. 21-34

SYNTHESIS OF HOLOGRAMS FOR COMPUTER GENERATED OUTPUT. 21-79

SYNTHESIS OF HOLOGRAMS FROM COMPUTER GENERATED OUTPUT. 21-80

OVALITIES
CLADDING OVALITIES IN ADVANCED LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL ELEMENTS. 28-6

OVARY
PHOTO INDUCED DNA PROTEIN ADDUCTS IN CHINESE HAMSTER OVARY CELL CHROMATIN. 5-116

OVERHAUSER
DIFFERENTIAL NUCLEAR OVERHAUSER ENHANCEMENT FOR CARBON -13 SINGLET AND CARBON -13 - CARBON -13 MULTIPLET RESONANCES OF A CARBOXYL CARBON. 14-6

OVERVIEW
NETWORK THERMODYNAMICS: AN OVERVIEW. 5-105

LASER FUSION: AN OVERVIEW. 20-74

CENTRAL COMPUTING FACILITY PLANNING STUDY: TECHNICAL OVERVIEW. 21-16

SENSITIVITY ANALYSIS IN SHIELDING: AN OVERVIEW. 28-37

OXALATE
COPRECIPITATION OF URANIUM AND PLUTONIUM OXALATES USING SODIUM FORMALDEHYDE SULFOXYLATE REDUCTION AND DIETHYL OXALATE HYDROLYSIS PRECIPITATION. 2-7

OXALATES
COPRECIPITATION OF URANIUM AND PLUTONIUM OXALATES USING SODIUM FORMALDEHYDE SULFOXYLATE REDUCTION AND DIETHYL OXALATE HYDROLYSIS PRECIPITATION. 2-7

OXIDATION
KINETICS OF THE OXIDATION - REDUCTION REACTIONS OF URANIUM, NEPTUNIUM, PLUTONIUM AND AMERICIUM IN AQUEOUS SOLUTIONS. 7-10

METAL ATOM OXIDATION LASER. 20-90

METAL ATOM OXIDATION LASERS: A NEW FAMILY OF CHEMICAL LASERS. 20-91

IMPROVEMENT IN OXIDATION RESISTANCE OF THE LEADING EDGE THERMAL PROTECTION FOR A SPACE SHUTTLE. 23-30

OXIDE
FAST REACTOR FISSION YIELDS FOR URANIUM -233, URANIUM -235, URANIUM -238, AND PLUTONIUM -239 AND DETERMINATION OF BURNUP IN FAST BREEDER REACTOR MIXED OXIDE FUELS. 2-14

OXYGEN POTENTIAL OF URANIUM - PLUTONIUM OXIDE AS DETERMINED BY CONTROLLED ATMOSPHERE THERMOGRAVIMETRY. 2-19

DI-MU-(PYRIDINE OXIDE)- BIS(DICHLORO (DIMETHYL SULFOXIDE)COPPER(II)). 7-4

SYNTHESIS, CHARACTERIZATION AND STRUCTURE OF URANIUM OXIDE TETRAFLUORIDE. 9-27

DETERMINATION OF ARGON OXIDE 558 NM LASER PARAMETERS. 20-22

HIGH ENERGY PROTON SIMULATION OF 14 MEV NEUTRON DAMAGE IN ALUMINUM OXIDE. 23-28

OXIDES
CHEMICAL METHODS FOR PREPARATION OF COMBINATIONS OF MOLYBDENUM, TUNGSTEN, AND URANIUM OXIDES. 23-4

OXO
HYDRATION ENERGIES AND SPECIFIC INFLUENCE OF OXO COMPLEXES AND HIGH COORDINATION NUMBERS ON THE PREDICTED CHEMISTRY OF SUPERHEAVY ELEMENTS. 7-9

OXYCHLORIDE
EXPERIMENTAL AND CALCULATED ELECTRONIC STRUCTURE OF GASEOUS CHROMIUM OXYFLUORIDE AND CHROMIUM OXYCHLORIDE. 4-23

CALCULATED AND EXPERIMENTAL ELECTRONIC STRUCTURE OF GASEOUS MANGANESE OXYFLUORIDE AND MANGANESE OXYCHLORIDE. 4-7

OXYFLUORIDE
EXPERIMENTAL AND CALCULATED ELECTRONIC STRUCTURE OF GASEOUS CHROMIUM OXYFLUORIDE AND CHROMIUM OXYCHLORIDE. 4-23

CALCULATED AND EXPERIMENTAL ELECTRONIC STRUCTURE OF GASEOUS MANGANESE OXYFLUORIDE AND MANGANESE OXYCHLORIDE. 4-7

OXYGEN -18 ENRICHMENT PROCESS IN URANIUM OXYFLUORIDE UTILIZING LASER LIGHT. 20-113

OXYGEN
DETERMINATION OF OXYGEN IN PLUTONIUM BY THE CAPILLARY TRAP METHOD. 2-10

OXYGEN POTENTIAL OF URANIUM - PLUTONIUM OXIDE AS DETERMINED BY CONTROLLED ATMOSPHERE THERMOGRAVIMETRY. 2-19

DETERMINATION OF OXYGEN -17 AND OXYGEN -18 ISOTOPIC ABUNDANCES IN PLUTONIUM -238 MATERIALS BY GAMMA RAY SPECTROMETRY. 2-9

ISOTOPE EFFECTS IN THE SCHUMANN-RUNGE BANDS OF MOLECULAR OXYGEN. 4-32

TRANSITIONS 2S(2)2P(K)-2S2P(K+1) OF THE FLUORINE(I), OXYGEN(I), AND NITROGEN(I) ISOELECTRONIC SEQUENCES. 4-66

DEPENDENCE OF THE SECOND EXPLOSION LIMITS OF HYDROGEN - FLUORINE - OXYGEN -HYDROGEN FLUORIDE MIXTURES ON A HOT ATOM EFFECT. 6-5

ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 1. PHASE BOUNDARY, THERMODYNAMICS AND LATTICE PARAMETER. 9-1

ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 2. SUPERCONDUCTING TRANSITION TEMPERATURE. 9-2

CRYSTAL STRUCTURE OF PRASEODYMIUM(7) OXYGEN(12) BY POWDER NEUTRON DIFFRACTION. 9-8

OXYGEN -18 ENRICHMENT PROCESS IN URANIUM OXYFLUORIDE UTILIZING LASER LIGHT. 20-113

MEASUREMENT OF THE ENERGY OF THE 6129 KEV GAMMA RAY OF OXYGEN -16. 25-114

NEUTRON KNOCKOUT BY PIONS ON NITROGEN -14, OXYGEN -16, AND FLUORINE -19. 25-131

ACTIVATION STUDIES OF PION INDUCED REACTIONS ON CARBON, NITROGEN, OXYGEN, FLUORINE, ALUMINUM AND COPPER. 25-8

OXYTRICHLORIDE
ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF MANGANESE(V) OXYTRICHLORIDE. 4-19

OZONE
CONFIGURATION INTERACTION STUDIES OF OZONE AND OZONE POSITIVE ION. GROUND AND EXCITED STATES. 4-12

P
EQUATION OF STATE OF NITROGEN TO 21 KBAR FROM SIMULTANEOUS MEASUREMENT OF P V T AND SOUND VELOCITY. 4-22

BIOMEDICAL APPLICATIONS OF THE CLINTON P. ANDERSON MESON PHYSICS FACILITY. 5-15

ON THE ROOTS OF X(M)+-1 IN THE P-ADIC FIELD Q(P). 21-61

CLINTON P. ANDERSON MESON PHYSICS FACILITY RADIOISOTOPE PROGRAM. 22-8

P DIVISION PROGRESS REPORT, 20 JUNE 1948 - 20 JULY 1948. 30-56

P-ADIC
ON THE ROOTS OF X(M)+-1 IN THE P-ADIC FIELD Q(P). 21-61

P-BE
PARITY VIOLATION IN P-P AND P-BE REACTIONS. 25-156

P-NUCLEUS
LIMIT ON PARITY NONCONSERVATION IN P-NUCLEUS SCATTERING AT 6 GEV/C. 25-100

P-P
PARITY VIOLATION IN P-P AND P-BE REACTIONS. 25-156

PACER
PACER PROGRAM. FY 1974 LASL ACTIVITY. REFERENCES. 30-57

PACER PROGRAM. PHASE 1. THEORETICAL AND LABORATORY STUDIES. 30-58

PACKAGE
MUMPS CODE BUILDING PACKAGE FOR DATA BASE MANAGEMENT. 6-104

PAD
SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE II: SOLID PROPELLANT FIRE. 17-52

SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE III: FSA (FUEL SPHERE ASSEMBLY) IMPACTS. 17-53

PAD, A ONE DIMENSIONAL LAGRANGIAN HYDROCODE. 18-35

PADE
BETHE-SALPETER EQUATION FOR NUCLEON -NUCLEON SCATTERING: MATRIX PADE APPROXIMANTS. 2. 25-20

PAIRING
EXPERIMENTAL STUDY OF THE PAIRING MODE OF ELEMENTARY EXCITATIONS. 25-76

IMPORTANCE OF THE QUADRUPOLE PAIRING FIELD IN THE J(PI)=0(+) VIBRATIONS OF SHAPE DEFORMED NUCLEI. 25-97

PALLADIUM
STRUCTURE OF PLUTONIUM - PALLADIUM. 9-23

PANEL
PANEL ON GEOTHERMAL ENERGY. 11-36

PANEL ON ENERGY STORAGE AND SOLAR ENERGY. 12-14

LASL PANEL ON TACTICAL NUCLEAR WARFARE. REPORT OF THE THIRD MEETING, MAY 14-15, 1974. 30-39

PARA
CONVERSION OF PARA TO ORTHOHYDROGEN IN A GAMMA RAY AND NEUTRON RADIATION FIELD. 8-7

PARABOLIC
ALTERNATING DIRECTION GALERKIN METHODS FOR PARABOLIC AND HYPERBOLIC PROBLEMS ON RECTANGULAR POLYGONS. 21-3

PARADOX
PARADOX: THE THERMAL RATE COEFFICIENT FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION. 6-13

PARAMAGNETISM
INDUCED PARAMAGNETISM IN URANIUM ALLOYS: A BORON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY OF ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND YTTRIUM TETRABORIDE. 14-8

PARAMETER
IMPLIED TEMPERATURE DEPENDENCE OF THE GRUNEISEN PARAMETER. 4-30

ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 1. PHASE BOUNDARY, THERMODYNAMICS AND LATTICE PARAMETER. 9-1

FITPI: MODIFICATIONS TO THE OPTICAL MODEL PROGRAM PIRK FOR PARAMETER SEARCHES AND TOTAL CROSS SECTIONS. 29-3

PARAMETERS
PLASMA PARAMETERS AND STABILITY OF THE ZT-1 PINCH EXPERIMENT. 10-102

KINETIC PARAMETERS OF CARBONIC ANHYDRASE E BY CARBON -13 NUCLEAR MAGNETIC RESONANCE. 14-9

SCISSION POINT PARAMETERS DETERMINED BY LIGHT PARTICLE EMISSION IN FISSION OF CALIFORNIUM -252. 16-13

DETERMINATION OF ARGON OXIDE 558 NM LASER PARAMETERS. 20-22

RELATION OF FABRICATION PARAMETERS TO RTG FUEL PROPERTIES. 23-48

NUCLEAR CHARGE PARAMETERS FOR THE ODD-A ACTINIDES URANIUM -235 AND PLUTONIUM -239. 25-141

PARAMETERS OF THE SUBTHRESHOLD FISSION STRUCTURE IN PLUTONIUM -239. 25-151

PARAMETERS OF THE SUBTHRESHOLD FISSION STRUCTURE IN PLUTONIUM -240. 25-152

CHARACTERISTICS OF RADIATION DAMAGE PARAMETERS IN VARIOUS NEUTRON SPECTRA. 25-26

PARAMETRIC
SPECTRAL OBSERVATION OF ELECTROMAGNETIC WAVE DECAY DUE TO THE OTS AND DECAY PARAMETRIC INSTABILITIES. 10-126

COUPLING COEFFICIENT SATURATION IN THE NONLINEAR THEORY OF PARAMETRIC INSTABILITIES. 10-14

THEORY AND SIMULATION OF THE PARAMETRIC DECAY OF WHISTLER SOLITARY WAVES. 10-144

PARAMETRIC STUDY OF A MULTIBAND CARBON DIOXIDE LASER. 20-114

PARAMETRICALLY
ENHANCED WEAK FIELD ELECTRICAL RESISTIVITY OF A PARAMETRICALLY UNSTABLE PLASMA. 10-32

PARITY
LIFETIMES OF NEGATIVE PARITY STATES OF SCANDIUM -49 BY THE CALCIUM -48(PROTON, GAMMA)SCANDIUM -49 REACTION. 25-102

LIMIT ON PARITY NONCONSERVATION IN P-NUCLEUS SCATTERING AT 6 GEV/C. 25-103

PARITY NONCONSERVATION IN PROTON - PROTON AND PROTON - NUCLEUS SCATTERING. 25-153

PARITY NONCONSERVATION IN TWO NUCLEON SYSTEMS. 25-154

PARITY VIOLATING ASYMMETRY IN NEUTRON PHOTO CAPTURE BY PROTONS AND THE ISOSPIN STRUCTURE OF THE STRANGENESS CONSERVING NONLEPTONIC WEAK INTERACTIONS. 25-155

PARITY VIOLATION IN P-P AND P-BE REACTIONS. 25-156

TESTS OF PARITY CONSERVATION IN PROTON -PROTON AND PROTON - NUCLEUS SCATTERING. 25-218

EXCHANGE EFFECTS FROM WEAK RADIATIVE MESONIC TRANSITIONS IN PARITY VIOLATING NUCLEAR PROCESSES. 25-71

GAMMA RAY ANGULAR DISTRIBUTIONS AND PARITY TESTS IN THE DECAYS OF POLARIZED LUTETIUM -173 AND LUTETIUM -174M,G. 25-85

IMPLICATIONS OF PARITY VIOLATING EFFECTS IN STRANGENESS CONSERVING NONLEPTONIC PROCESSES. 25-96

PARK
PROPOSAL TO DESIGNATE CERTAIN LAND AREAS OF THE LOS ALAMOS SCIENTIFIC LABORATORY AS A NATIONAL ENVIRONMENTAL RESEARCH PARK. 30-66

PARTIAL
PARTIAL CHRONOLOGY OF Z PINCH STUDIES AT LOS ALAMOS SCIENTIFIC LABORATORY, 1952-1975. 10-97

PARTIAL WAVE EXPANSION OF THE INDUCED COLLISION KERNEL. 18-36

SIGNIFICANCE ARITHMETIC: APPLICATION TO A PARTIAL DIFFERENTIAL EQUATION. 21-73

EXPANSION OF THE NUCLEON - NUCLEON SCATTERING AMPLITUDE IN EXCHANGED PARTIAL WAVES. 25-73

PARTICLE
PARTICLE ACCELERATION NEAR AN ACCRETING BLACK HOLE. 3-33

CANONICAL MOMENTA AND NUMERICAL INSTABILITIES IN PARTICLE CODES. 10-4

CHARGED PARTICLE MASS AND ENERGY DEPOSITION IN A THERMONUCLEAR PLASMA. 10-7

SCISSION POINT PARAMETERS DETERMINED BY LIGHT PARTICLE EMISSION IN FISSION OF CALIFORNIUM -252. 16-13

ENERGETIC PARTICLE DETECTOR FOR A SYNCHRONOUS SATELLITE. 19-6

DEVELOPMENT OF AN ALPHA PARTICLE AND PROTON DETECTOR FOR LASER - FUSION STUDIES. 20-23

ALPHA PARTICLE ENERGY ABSORPTION IN A REACTING DEUTERIUM - TRITIUM SPHERE. 20-3

INVESTIGATION OF PATTERN RECOGNITION TECHNIQUES FOR THE IDENTIFICATION OF SPLITTING SURFACES IN MONTE CARLO PARTICLE TRANSPORT CALCULATIONS. 21-44

PARTICLE TRANSPORT SIMULATION WITH THE MONTE CARLO METHOD. 21-63

PARTICLE SEPARATOR AT LOS ALAMOS. 22-37

EFFECTS OF REACTOR NEUTRON, 14 MEV NEUTRON AND ENERGETIC CHARGED PARTICLE IRRADIATIONS ON THE CRITICAL CURRENT IN NIOBIUM(3)TIN. 23-16

SEPARABLE SOLUTIONS FOR DIRECTLY INTERACTING PARTICLE SYSTEMS. 25-204

PARTICLES
PARTICLES AND FIELDS IN THE NEIGHBORHOOD OF A MAGNETIC NEUTRAL LINE. 1-19

DIFFUSION ANALYSES FOR SYSTEMS OF SPHERICAL PARTICLES. 2-12

AGE RESPONSE FOR LINE CHO CHINESE HAMSTER CELLS EXPOSED TO X IRRADIATION AND ALPHA PARTICLES FROM PLUTONIUM. 5-1

COMPOSITIONAL AND FUNCTIONAL RELATIONSHIP OF SUBRIBOSOMAL PARTICLES TO RIBOSOMES AND POLYSOMES. 5-45

HIGH SPEED OPTICAL ANALYSIS OF MICROSCOPIC PARTICLES. 5-75

PRESSURE PROFILES IN A THERMONUCLEAR PLASMA SHEATH CONTAINING ENERGETIC ALPHA PARTICLES. 10-106

SLOWING-IN DISTRIBUTION OF FAST PARTICLES RELEASED IN MAXWELLIAN PLASMA. 10-125

COMPUTER STUDIES ON FLUID SYSTEMS OF HARD CORE PARTICLES. 18-5

MEASUREMENTS OF ALPHA PARTICLES AND PROTONS, PRODUCED FROM LASER FUSION. 20-89

HEATING BY SECONDARY PARTICLES AT MESON FACTORIES. 22-17

ELASTIC SCATTERING OF 7-12 MEV TRITONS BY ALPHA PARTICLES. 25-57

PARTICULATE
MODEL FOR PREDICTING THE REDISTRIBUTION OF PARTICULATE CONTAMINANTS FROM SOIL SURFACES. 11-30

PARTICULATE TRANSPORT IN THREE DIMENSIONAL FLUID FLOWS THROUGH CURVED AND BIFURCATING VESSELS. 18-37

PARTITION
ASYMPTOTIC FORM OF PARTITION FUNCTIONS OF LINEAR CHAIN MOLECULES: AN APPLICATION OF RENEWAL THEORY. 4-3

ULTRAVIOLET CHARGE EXCHANGE ENERGY LOSS PARTITION AS A FUNCTION OF BURST ALTITUDE AND YIELD TO MASS RATIO. 4-68

PASS
ANAKTUVUK PASS, ALASKA VILLAGE CENSUS. 30-1

PASSAGE
LIMITING FLUX PASSAGE TIME IN NARROW SUPERCONDUCTORS. 8-25

PASSIVE
PASSIVE ELECTRONIC IDENTIFICATION AND TEMPERATURE MONITORING SYSTEM, JULY 1, 1974 - JUNE 30, 1975. 5-109

PASSIVE ENVIRONMENTAL NEUTRON DOSIMETER. 17-34

DIFFUSION OF A PASSIVE SCALAR AT LARGE PRANDTL NUMBER ACCORDING TO THE ABRIDGED LAGRANGIAN INTERACTION THEORY. 18-10

FUNDAMENTALS OF PASSIVE NONDESTRUCTIVE ASSAY OF FISSIONABLE MATERIAL: LABORATORY WORKBOOK. 26-7

PATCH
DEBRIS ENERGY PATCH CALCULATION. 18-8

PATHS
TIME OF FLIGHT NEUTRON SPECTROSCOPY USING APPROXIMATELY 20 METER FLIGHT PATHS TO A NUCLEAR DEVICE. 25-223

PATHWAYS
ENVIRONMENTAL PATHWAYS OF PLUTONIUM INTO TERRESTRIAL PLANTS AND ANIMALS. 17-24

PATTERN
INVESTIGATION OF PATTERN RECOGNITION TECHNIQUES FOR THE IDENTIFICATION OF SPLITTING SURFACES IN MONTE CARLO PARTICLE TRANSPORT CALCULATIONS. 21-44

MONTE CARLO SPLITTING SURFACE IDENTIFICATION BY PATTERN RECOGNITION. 21-50

PATTERNS
ROCKY MOUNTAIN ENERGY FLOW PATTERNS. 12-19

NUMERICAL METHOD FOR STUDYING THE CIRCULATION PATTERNS OF A FLUID IN A CAVITY. 18-30

PAULI
TEST OF THE GENERALIZED PAULI PRINCIPLE AND OF SUPERMULTIPLET SYMMETRY IN THE REACTIONS TRITON + BERYLLIUM -8 TO LITHIUM -6 + HELIUM -6, LITHIUM -6(*0+) + HELIUM -6. 25-217

PDP-15
ASM80: A CDC 7600 MACRO CROSS ASSEMBLER FOR III-15 AND D.E.C. PDP-9 AND PDP-15 COMPUTERS. 21-9

PDP-9
ASM80: A CDC 7600 MACRO CROSS ASSEMBLER FOR III-15 AND D.E.C. PDP-9 AND PDP-15 COMPUTERS. 21-9

PEAK
INITIAL COMPARATIVE RESPONSE OF EXPERIMENTAL TUMORS TO PEAK PIONS AND X RAYS. 5-81

PEAK IRRADIANCE MEASUREMENTS ON A 10 J, 1 NS, CARBON DIOXIDE LASER. 20-116

LASER SYSTEMS FOR HIGH PEAK POWER APPLICATIONS. 20-82

PELLET
TWO DIMENSIONAL LAGRANGIAN LASER PELLET SIMULATION CODE. 20-159

COMPUTER SIMULATION OF A DEUTERIUM -TRITIUM PELLET MICROEXPLOSION IN A MAGNETICALLY PROTECTED LASER FUSION REACTOR. 20-20

PELLETS
PERFOPMANCE OF STRUCTURED LASER FUSION PELLETS. 20-116

CALCULATED PERFORMANCE OF STRUCTURED LASER FUSION PELLETS. 20-12

PENETRATION
RADIATION DOSE TO BE EXPECTED FROM AERIAL PENETRATION OF AN ATOMIC CLOUD. 30-72

PENETRATOR
VISCOUS MELT FLOW AND THERMAL ENERGY TRANSFER FOR A ROCK MELTING PENETRATOR: LITHOTHERMODYNAMICS. 11-61

DUCTILE TO BRITTLE TRANSITION OF URANIUM - 0.75 WT PERCENT TITANIUM PENETRATOR CORES. 23-10

PENETRATORS
UNIQUE REFRACTORY TECHNIQUES FOR FABRICATING SUBTERRENE PENETRATORS. 11-60

CHEMICAL CORROSION OF MOLYBDENUM AND TUNGSTEN IN LIQUID BASALT, TUFF, AND GRANITE WITH APPLICATION TO SUBTERRENE PENETRATORS. 11-7

PENTAERYTHRITOL
PENTAERYTHRITOL TETRANITRATE II: ITS CRYSTAL STRUCTURE AND TRANSFORMATION TO PETN I: AN ALGORITHM FOR REFINEMENT OF CRYSTAL STRUCTURES WITH POOR DATA. 9-17

ISOTHERMAL LINEAR AND VOLUME COMPRESSION OF PENTAERYTHRITOL TETRANITRATE (PETN) TO 10 GPA (100 KBAR) AND THE CALCULATED SHOCK COMPRESSION. 15-16

PENTAFLUORIDES
REDUCTIVE SYNTHESES OF TRANSITION METAL FLUORIDE COMPOUNDS. THE SYNTHESIS OF RHENIUM, OSMIUM AND IRIDIUM PENTAFLUORIDES AND TETRAFLUORIDES. 7-16

SYNTHESIS OF PENTAFLUORIDES. 7-21

PEOPLE
CURRENT STATUS OF INFORMATION OBTAINED FROM PLUTONIUM CONTAMINATED PEOPLE. 5-48

PERCHLORATE
KINETICS OF THE REACTION BETWEEN PLUTONIUM(III) AND CHROMIUM(VI) IN AQUEOUS PERCHLORATE SOLUTIONS. 7-11

PERFORMANCE
PRELIMINARY DESIGN AND PERFORMANCE OF AN ADVANCED GAMMA RAY SPECTROMETER FOR FUTURE ORBITER MISSIONS. 3-35

DESIGN AND PERFORMANCE OF TWO 10 KA SUPERCONDUCTING SWITCHES. 8-10

PERFORMANCE TESTS OF GRAVITY ASSIST HEAT PIPES WITH SCREEN WICK STRUCTURES. 13-12

LIMITING PERFORMANCE OF STRUCTURAL SYSTEMS. 13-9

INVESTIGATION OF PERFORMANCE OF US ARMY FILTER CANISTERS AND RESPIRATORS EQUIPPED WITH PROTOTYPE FACEPIECES. 17-29

PERFORMANCE OF MULTIHUNDRED WATT FUELED SPHERE ASSEMBLIES IN THE SAFETY SEQUENTIAL TEST PROGRAM. 17-35

PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS FOR PERIOD JULY 1 THROUGH DECEMBER 31, 1972. 17-36

PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS FOR THE PERIOD MARCH 1 THROUGH JUNE 30, 1972. 17-37

PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS. 17-38

PERFORMANCE OF STRUCTURED LASER FUSION PELLETS. 20-116

CALCULATED PERFORMANCE OF STRUCTURED LASER FUSION PELLETS. 20-12

LAMPF PROTON LINAC PERFORMANCE. 22-25

PERFORMANCE OF THE HIGH ENERGY PION BEAM AT LAMPF. 22-38

PERFORMANCE OF THE LAMPF H MINUS INJECTOR. 22-39

PERFORMANCE OF THE LASL Q3D SPECTROMETER AND HELIX DETECTOR SYSTEM. 25-157

PERFORMANCE OF SELECTED NONDESTRUCTIVE ASSAY TECHNIQUES ON LWR (LIGHT WATER REACTOR) (PLUTONIUM,URANIUM) DIOXIDE AND URANIUM DIOXIDE FUEL. 26-21

THERMAL AND FLOW PERFORMANCE ANALYSIS OF THE KIWI-B-4E REACTOR. 30-90

PERIOD
PROGRESS REPORT. RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES FOR THE PERIOD JULY 1 TO SEPTEMBER 30, 1974. 12-16

PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS FOR PERIOD JULY 1 THROUGH DECEMBER 31, 1972. 17-36

PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS FOR THE PERIOD MARCH 1 THROUGH JUNE 30, 1972. 17-37

QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1975. 22-47

QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1974. 22-48

BIBLIOGRAPHY OF CHEMISTRY AND METALLURGY DOCUMENTS RECEIVED BY THE LOS ALAMOS DOCUMENT ROOM IN THE PERIOD JANUARY 1, 1947 TO JANUARY 1, 1948. 23-2

MONTHLY STATUS REPORT OF LASL ROVER PROGRAM FOR PERIOD ENDING DECEMBER 20, 1962. 30-50

QUARTERLY PROGRESS REPORT OF LASL ROVER PROGRAM FOR THE PERIOD ENDING NOVEMBER 30, 1972. 30-69

QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENDING JULY 31, 1967. 30-70

QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC R AND D PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1969. PART 2. 30-71

SPACE ELECTRIC POWER R AND D PROGRAM, QUARTERLY STATUS REPORT FOR THE PERIOD ENDING APRIL 30, 1969. 30-85

STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR FOUR MONTH PERIOD ENDING JULY 20, 1962. 30-86

PERIPHERAL
DISTORTED PERIPHERAL CROSS SECTIONS FOR DEUTERON (PI+,2PKOTON). 22-11

PERITONITIS
IODIZED STARCH GRANULES AS A CAUSE OF STARCH PERITONITIS. 5-84

PERMEABILITY
DETERMINATION OF PERMEABILITY OF GRANITIC ROCKS IN GT-2 FROM HYDRAULIC FRACTURING DATA. 11-12

PERMEABILITY OF A MONZO-GRANITE AT ELEVATED TEMPERATURE. 11-37

PERSONAL
PERSONAL AIR SAMPLING FOR VAPORS OF ANILINE COMPOUNDS. 17-39

PERSONAL PROTECTIVE DEVICES. 17-40

CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY, JULY - DECEMBER 1974. 17-6

PERSONNEL
ENERGY RESPONSE OF TLD BADGES LOCATED ON PERSONNEL. 17-19

PERSPECTIVE
PERSPECTIVE DISPLAYS FOR THREE DIMENSIONAL FINITE DIFFERENCE CALCULATIONS. 21-64

PERSPECTIVES
COMPUTING AT LASL: PERSPECTIVES, POLICIES, AND PLANS. 21-24

PERTURBATION
PERTURBATION THEORY OF EFFECTIVE HAMILTONIANS. 25-158

BEAD PERTURBATION MEASUREMENT FOR THE KEK LINAC CAVITY. 25-18

REDUCTION OF SINGULAR COLLISION INTEGRALS IN PERTURBATION THEORY. 27-14

PERTURBATIONS
STABILITY OF THE REVERSED FIELD PINCH CONFIGURATION TO LOCALIZED PERTURBATIONS. 10-136

PERTURBING
MOTION OF A PLASMA COLUMN IN A PERTURBING MAGNETIC FIELD. 10-62

PETN
PENTAERYTHRITOL TETRANITRATE II: ITS CRYSTAL STRUCTURE AND TRANSFORMATION TO PETN I: AN ALGORITHM FOR REFINEMENT OF CRYSTAL STRUCTURES WITH POOR DATA. 9-17

ISOTHERMAL LINEAR AND VOLUME COMPRESSION OF PENTAERYTHRITOL TETRANITRATE (PETN) TO 10 GPA (100 KBAR) AND THE CALCULATED SHOCK COMPRESSION. 15-16

SHOCK COMPRESSION AND INITIATION OF POROUS PETN. 15-25

DYNAMIC ELASTIC - PLASTIC PROPERTIES OF SINGLE CRYSTAL PETN. 15-6

PETROGRAPHY
PETROGRAPHY AND CHEMISTRY OF MINERALS AND GLASS IN ROCKS PARTIALLY FUSED BY ROCK MELTING DRILLS. 11-38

PETROLOGY
PETROLOGY OF DEEP SEATED CUMULATE INCLUSIONS, WEST POTRILLO MOUNTAINS, NEW MEXICO. 11-39

PF
(TRITON,PF) REACTION ON RADIUM -226. 25-3

PHASE
RATE OF DNA SYNTHESIS DURING S PHASE BY MAMMALIAN CELLS IN VITRO. 5-124

TEMPORAL STRUCTURE OF S PHASE. 5-140

COMPARISON OF THE COMBINED PHASE SPACE TRAJECTORY AND QUASICLASSICAL TRAJECTORY METHODS IN THE STUDY OF REACTION DYANMICS: HYDROGEN + IODINE(2) AND HYDROGEN + BROMINE(2) 6-4

THERMODYNAMIC PROPERTIES OF THE BINARY LAVES PHASE COMPOUNDS OF PLUTONIUM WITH THE GROUP VIIIA METALS. 7-23

EMF'S ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM: BARE ELECTRODE EFFECTS, USE OF N UNEQUAL TO 2, PREMONITORY PHENOMENA AND LIQUID STRUCTUF IN GOLD -CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS. 7-5

FORCED CONVECTION HEAT TRANSFER WITH TWO PHASE FLOW. 8-18

ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 1. PHASE BOUNDARY, THERMODYNAMICS AND LATTICE PARAMETER. 9-1

PHONON DRIVEN PHASE CHANGE IN CESIUM LITHIUM CHROMIUM HEXACYANIDE. 9-18

PHASE EQUILIBRIA OF RICHTERITE AND FERRORICHTERITE. 11-40

PLANNING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 1. 11-41

TESTING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 2. 11-57

TESTING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 3. 11-58

SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE II: SOLID PROPELLANT FIRE. 17-52

SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE III: FSA (FUEL SPHERE ASSEMBLY) IMPACTS. 17-53

NUMERICAL CALCULATION OF TWO PHASE FLOWS. 18-29

SHOCK WAVE TECHNIQUES FOR THE EXAMINATION OF PHASE TRANSITIONS. 18-44

NUMERICAL STUDIES OF THE INTERPLAY BETWEEN SELF PHASE MODULATION AND DISPERSION FOR INTENSE PLANE WAVE LASER PULSES. 20-105

LASER PHASE TRANSITION ANALOGY: APPLICATION TO FIRST ORDER TRANSITIONS. 20-79

VAPOR PHASE COATINGS OF METALS AND ORGANICS FOR LASER FUSION TARGET APPLICATIONS. 23-63

PACER PROGRAM. PHASE 1. THEORETICAL AND LABORATORY STUDIES. 30-58

PHASED
DESIGN STUDIES OF HEAVY ION LINEAR ACCELERATORS CONSTRUCTED OF INDEPENDENTLY PHASED SPIRAL RESONATORS. 27-3

PHASES
FLOW OF INTERPENETRATING MATERIAL PHASES. 18-15

PHENOMENA
VLF RADIO PHENOMENA FOLLOWING A BARIUM SHAPED CHARGE RELEASE AT L APPROXIMATELY EQUALS 6.5. 1-37

EMF'S ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM: BARE ELECTRODE EFFECTS, USE OF N UNEQUAL TO 2, PREMONITORY PHENOMENA AND LIQUID STRUCTURE IN GOLD -CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS. 7-6

SELF FOCUSING PHENOMENA IN AIR - GLASS LASER STRUCTURES. 20-138

ULTRASHORT PHENOMENA. 20-161

INTERACTION BETWEEN CESIUM AND GRAPHITE FOR USE IN THE STUDY OF SURFACE PHENOMENA. 23-31

PHENOMENOLOGY
LATE TIME PHENOMENOLOGY PREDICTIONS WITH AN ALMOST LAGRANGIAN CODE. 18-22

PHENOMENON
SOME U. S. STUDIES OF THE OKLO PHENOMENON 30-84

PHILOSOPHY
SAMPLING OF SOILS FOR RADIOACTIVITY: PHILOSOPHY, EXPERIENCE, AND RESULTS. 17-55

PHOEBUS
MONTE CARLO CALCULATION OF THE GAMMA RAY HEATING IN A PHOEBUS 1 NOZZLE FROM CORE SOURCES. 30-40

PHOEBUS-2
CRITICAL ASSEMBLY MOCKUP STUDIES OF THE PHOEBUS-2 ROVER REACTOR. 30-15

PHOEBUS-2A
PHOEBUS-2A REACTIVITY ANALYSIS. 30-50

PHONEX
PHONEX, A COMPUTER PROGRAM TO CALCULATE PHOTONEUTRON SPECTRA. 25-150

PHONON
SELF CONSISTENT PHONON CALCULATIONS AND EQUATIONS OF STATE OF SOLID HYDROGEN AND DEUTERIUM. 4-40

PHONON THERMAL CONDUCTIVITY OF SUPERCONDUCTING LEAD - THALLIUM ALLOYS. 5-35

PHONON DRIVEN PHASE CHANGE IN CESIUM LITHIUM CHROMIUM HEXACYANIDE. 9-18

PHOSPHINE
REVERSIBLE SULFUR DIOXIDE ADDITION TO COPPER(I) PHOSPHINE COMPLEXES. 7-17

INTERACTIONS OF SMALL MOLECULES WITH COPPER(I) PHOSPHINE COMPLEXES. 9-12

PHOSPHORYLATION
RELATIONSHIP OF HISTONE PHOSPHORYLATION TO THE CHROMOSOME CYCLE. 5-127

SEQUENTIAL PHOSPHORYLATION OF HISTONE SUBFRACTIONS IN THE CHINESE HAMSTER CELL CYCLE. 5-131

CELL CYCLE DEPENDENT PHOSPHORYLATION OF DIFFERENT REGIONS OF F1 HISTONE. 5-23

CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES. 5-24

CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES. 5-25

PHOTO
PHOTO INDUCED DNA PROTEIN ADDUCTS IN CHINESE HAMSTER OVARY CELL CHROMATIN. 5-110

PARITY VIOLATING ASYMMETRY IN NEUTRON PHOTO CAPTURE BY PROTONS AND THE ISOSPIN STRUCTURE OF THE STRANGENESS CONSERVING NONLEPTONIC WEAK INTERACTIONS. 25-156

PHOTO-SPECTROSCOPY
MATRIX PHOTO-SPECTROSCOPY OF METAL HEXAFLUORIDES. 4-36

PHOTOABSORPTION
PHOTOABSORPTION PROCESSES IN FLUORINE. 4-49

PHOTODISINTEGRATION
TWO BODY PHOTODISINTEGRATION OF HELIUM -3 AND HYDROGEN -3. 22-53

THREE BODY PHOTODISINTEGRATION OF HELIUM -3. 25-221

PHOTOELECTRIC
PHOTOELECTRIC OBSERVATIONS OF BOMB FLASHES AT A LONG DISTANCE. 30-86

PHOTOFISSION
EXPERIMENTAL DETERMINATION OF PHOTOFISSION NEUTRON MULTIPLICITIES FOR EIGHT ISOTOPES IN THE MASS RANGE 232 A 239. 16-1

PHOTOFISSION AND PHOTONEUTRON MEASUREMENT OF URANIUM -238 WITH MONOENERGETIC PHOTONS. 16-11

PHOTOFISSION MEASUREMENTS WITH MONOENERGETIC PHOTONS. 16-12

PHOTOFISSION AND PHOTONEUTRON REACTIONS IN URANIUM -238. 25-160

PHOTOFISSION AND PHOTONEUTRON REACTIONS IN URANIUM -238. 25-161

PHOTOGRAPHS
CALCULATION OF X RAY PINHOLE PHOTOGRAPHS 20-13

PHOTOIONIZATION
URANIUM TRANSITIONS AND ENERGY LEVELS WHICH MAY BE USEFUL IN ATOMIC PHOTOIONIZATION SCHEMES FOR SEPARATING URANIUM -238 AND URANIUM -235. 2-26

UV PHOTOIONIZATION PROCESSES IN SEEDED HIGH PRESSURE LASER GASES. 20-162

PHOTOIONIZATION CROSS SECTIONS AND RADIATIVE RECOMBINATION RATE COEFFICIENTS FOR IRON(XV-XXV). 26-162

PHOTOIONIZATION CROSS SECTIONS AND RADIATIVE RECOMBINATION RATE COEFFICIENTS FOR POSITIVE IONS OF CARBON AND GOLD 26-163

PHOTON
LIMIT ON THE PHOTON MASS DEDUCED FROM PIONEER 10 OBSERVATIONS OF JUPITER'S MAGNETIC FIELD 2-26

MONOCHROMATIC PHOTON INDUCED THORIUM -232 PHOTONUCLEAR REACTIONS 16-9

COHERENT MULTIPLE PHOTON PUMPING OF SIMPLE QUANTUM MECHANICAL SYSTEMS. 20-15

AMPLIFIERS INVOLVING TWO PHOTON ENERGY EXTRACTION SCHEMES. 20-6

NJOY A NEUTRON AND PHOTON CROSS SECTION PROCESSING SYSTEM 25-136

PHOTON PROPAGATION IN NUCLEAR MATTER AND THE CORRECTION TO THE THEORETICAL NUCLEAR CHARGE DENSITY 25-164

PHOTON SPECTRUM IN PION CAPTURE ON TRITIUM 25-165

DIFFERENTIAL CROSS SECTIONS FOR COHERENT PHOTON SCATTERING BY ELEMENTS Z=2 THROUGH Z=26. 25-46

PHOTONEUTRON
RECOVERY OF SPALLOGENIC, CARRIER FREE YTTRIUM -86 FOR RADIOISOTOPE PHOTONEUTRON SOURCES 7-15

PHOTOFISSION AND PHOTONEUTRON MEASUREMENT OF URANIUM -238 WITH MONOENERGETIC PHOTONS 16-11

FISSION PRODUCT GAMMA RAY AND PHOTONEUTRON SPECTRA. 16-3

PHONEX, A COMPUTER PROGRAM TO CALCULATE PHOTONEUTRON SPECTRA. 25-150

PHOTOFISSION AND PHOTONEUTRON REACTIONS IN URANIUM -238. 25-160

PHOTOFISSION AND PHOTONEUTRON REACTIONS IN URANIUM -238. 25-161

PHOTONS
PHOTOFISSION AND PHOTONEUTRON MEASUREMENT OF URANIUM -238 WITH MONOENERGETIC PHOTONS. 16-11

PHOTOFISSION MEASUREMENTS WITH MONOENERGETIC PHOTONS. 16-12

PHOTONUCLEAR
MONOCHROMATIC PHOTON INDUCED THORIUM -232 PHOTONUCLEAR REACTIONS. 16-9

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 2. PHOTONUCLEAR (DEUTERIUM (GAMMA,NEUTRON)) METHOD. 20-103

PHOTOSYNTHESIS
ENERGY TRANSFER IN PHOTOSYNTHESIS: PIGMENT CONCENTRATION EFFECTS AND FLUORESCENT LIFETIMES. 5-56

STREAK CAMERA STUDIES USING PICOSECOND PULSES OF PHOTOSYNTHESIS AND PLASTIC SCINTILLATORS. 20-143

PHOTOSYNTHETIC
PHOTOSYNTHETIC STUDIES WITH A 10 PSEC RESOLUTION STREAK CAMERA. 5-111

PHYSICAL
PHYSICAL METHODS FOR RAPID ON-LINE DETECTION OF TRICHINELLA IN PORK. 5-112

STEADY ABLATION OF LASER TARGETS IN SPHERICAL GEOMETRY. 2. PHYSICAL RESULTS 20-141

LASER - FUSION TARGET FABRICATION: APPLICATION OF A POLYMERIC ABLATOR COATING TO A BALL AND DISK TARGET DESIGN BY THE PHYSICAL VAPOR DEPOSITION OF POLYETHYLENE. 20-66

HIGH RATE PHYSICAL VAPOR DEPOSITION OF REFRACTORY METALS. 23-29

YIELD STRENGTH OF FINE GRAINED VANADIUM PRODUCED BY HIGH RATE PHYSICAL VAPOR DEPOSITION. 23-64

NONDESTRUCTIVE ASSAY PHYSICAL STANDARDS AND TODAY'S SAFEGUARDS REQUIREMENTS. 28-14

PHYSICAL STANDARDS AND VALID CALIBRATION. 28-22

PHYSICS
BIOMEDICAL APPLICATIONS OF THE CLINTON P. ANDERSON MESON PHYSICS FACILITY 6-15

NUMERICAL METHODS IN FLUID DYNAMICS 1974. 4TH INTERNATIONAL CONFERENCE, BOULDER. PROCEEDINGS. LECTURE NOTES IN PHYSICS. V35 18-32

RECENT DEVELOPMENTS IN UNDERSTANDING THE PLASMA PHYSICS OF LASER TARGET INTERACTIONS 20-130

MEDIUM ENERGY PHYSICS PROGRAM, FEBRUARY 1 - APRIL 30, 1975 22-29

MEDIUM ENERGY PHYSICS PROGRAM, MAY 1 -JULY 31, 1975. 22-30

QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1975 22-47

QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1974 22-48

CLINTON P. ANDERSON MESON PHYSICS FACILITY RADIOISOTOPE PROGRAM. 22-8

LOS ALAMOS HANDBOOK OF NUCLEAR PHYSICS. 26-104

HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS 26-94

PI
DISTORTED PERIPHERAL CROSS SECTIONS FOR DEUTERON (PI+,2PROTON). 22-11

EXTRACTION OF NEUTRON - NEUTRON SCATTERING LENGTH FROM THE REACTION PI -DEUTERON TO GAMMA NEUTRON - NEUTRON. 22-14

EXTRACTION OF NEUTRON - NEUTRON SCATTERING LENGTH FROM THE REACTION PI -DEUTERON TO GAMMA NEUTRON - NEUTRON. ERRATUM. 22-15

PI MESON ABSORPTION ON THE DEUTERON. 22-40

MEASUREMENT OF THE CROSS SECTION FOR THE REACTION PI(-) + PROTON TO PI(+) + NEUTRON AT 250 AND 300 MEV. 25-113

NEUTRON PRODUCTION AT 0 DEGREES FROM THE REACTION PROTON - PROTON TO NEUTRON -PROTON - PI(+) AT THE MEDIUM ENERGIES. 25-132

PI (PLUS AND MINUS) - HELIUM -4 TOTAL CROSS SECTIONS FROM 60-100 MEV. 25-166

(PI,PI-N) PUZZLE: EFFECTS OF PION CHARGE EXCHANGE 25-2

CONDITION FOR A VANISHING CROSS SECTION AT THETA = PI/2 IN BARSHAY-TEMMER REACTIONS 25-36

CROSS SECTIONS FOR DEUTERON (PI+,2PROTON) WITH DISTORTED PROTONS. 26-42

EXPERIMENTAL STUDY OF THE PI+ + DEUTERON TO PROTON + PROTON REACTION AT PION ENERGIES OF 40, 50, AND 60 MEV. 26-77

IMPORTANCE OF THE QUADRUPOLE PAIRING FIELD IN THE J(PI)=0(+) VIBRATIONS OF SHAPE DEFORMED NUCLEI. 25-97

PI-MINUS
PI-MINUS D TO GAMMA NN AND MU-MINUS D TO NU NN. 22-41

PI-N
(PI,PI-N) PUZZLE: EFFECTS OF PION CHARGE EXCHANGE. 25-2

PI-PLUS
(PI-PLUS,P0) REACTION ON SEVERAL LIGHT NUCLEI. 22-1

REACTION CARBON -13 (PI-PLUS, PI-ZERO) NITROGEN -13 (G.S.) FOR E(PI-PLUS) = 30 TO 190 MEV. 22-40

PI-ZERO
REACTION CARBON -13 (PI-PLUS, PI-ZERO) NITROGEN -13 (G.S.) FOR E(PI-PLUS) = 30 TO 190 MEV. 22-40

PIC
RAMSES, A TWO DIMENSIONAL, PIC TYPE, LASER PULSE PROPAGATION CODE. 20-120

PIC-TYPE
GAP: A PIC-TYPE FLUID CODE. 18-16

PICKUP
PROTON PICKUP FROM STRONTIUM -86 AND THE RUBIDIUM -86 LEVEL STRUCTURE. 26-185

PICOSECOND
STREAK CAMERA STUDIES USING PICOSECOND PULSES OF PHOTOSYNTHESIS AND PLASTIC SCINTILLATORS. 20-143

PICRYL
PICRYL DERIVATIVES OF BENZO (1,2-D:4,5-D') BISTRIAZOLE AND BENZO (1,2-D:4,5-D') BISTRIAZOLE -4,8- DIONE. 15-19

PIECEWISE
ENGINEERING APPLICATIONS OF ADI (ALTERNATING - DIRECT - IMPLICIT) METHODS TO PIECEWISE LINEAR MULTIDIMENSIONAL HEAT TRANSFER. 21-31

PIGMENT
ENERGY TRANSFER IN PHOTOSYNTHESIS: PIGMENT CONCENTRATION EFFECTS AND FLUORESCENT LIFETIMES. 5-58

PILE
MAGMA CONTAMINATION WITHIN THE VOLCANIC PILE: ORIGIN OF ANDESITE AND DACITE: COMMENT AND REPLY. 11-26

PILOT
PILOT MODEL. INDUCTION HEATED ROTATING FLUIDIZED BED. 30-61

PINCH
ANALYSIS OF VUV EMISSION IN A THETA PINCH SEEDED WITH NEON AND IRON 4-1

PLASMA EXPERIMENTS IN THE SCYLLAC TOROIDAL THETA PINCH. 10-100

PLASMA EXPERIMENTS ON THE HIGH DENSITY SCYLLA I-C THETA PINCH. 10-101

PLASMA PARAMETERS AND STABILITY OF THE ZT-1 PINCH EXPERIMENT. 10-102

PLASMA TEMPERATURE MEASUREMENTS ON THE ZT-1 PINCH. 10-103

PROSPECTS FOR CONVERTING THORIUM -232 TO URANIUM -233 IN A LINEAR THETA PINCH HYBRID REACTOR (LTPHR). 10-109

RADIAL PLASMA STRUCTURE DURING A THETA PINCH IMPLOSION: FLUTE INSTABILITIES. 10-110

RADIOACTIVITY INDUCED IN A THETA PINCH FUSION REACTOR. 10-111

REVIEW OF TOROIDAL THETA PINCH THEORY. 10-115

SCYLLA IV-P LINEAR THETA PINCH. 10-117

SHIELDING AND ACTIVATION OF A THETA PINCH FUSION TEST REACTOR (TPFTR). 10-124

STABILITY ANALYSIS OF SHARP BOUNDARY VLASOV FLUID SCREW PINCH EQUILIBRIA. 10-128

STABILITY ANALYSIS OF SHARP BOUNDARY VLASOV FLUID SCREW PINCH EQUILIBRIA. 10-129

STABILITY AND DIFFUSION OF THE ZT-1 REVERSED FIELD PINCH. 10-130

STABILITY OF THE REVERSED FIELD PINCH CONFIGURATION TO LOCALIZED PERTURBATIONS. 10-136

STAGED THETA PINCH EXPERIMENT. 10-137

STAGED THETA PINCH EXPERIMENTS. 10-138

STAGED THETA PINCH EXPERIMENTS. 10-139

STRUCTURAL ENDURANCE CONSTRAINTS FOR HIGH FIELD THETA PINCH COILS. COILS. 10-140

THETA PINCH FUSION TEST REACTOR. 10-147

THETA PINCH TOROIDAL REACTOR. 10-148

CTR APPLICATIONS OF THE HIGH DENSITY LINEAR THETA PINCH. 10-15

TRANSIENT FLOW AND EXPANSION OF A PINCH DISCHARGE PLASMA IN SELF INDUCED MAGNETIC FIELDS. 10-152

DESIGN OF THE ZT-1 TOROIDAL PINCH EXPERIMENT. 10-18

ENDLOSS FROM A LINEAR THETA PINCH. 10-27

ASPECTS OF THETA PINCH POWER PLANT DEVELOPMENT. 10-3

ENERGY STORAGE, COMPRESSION, AND SWITCHING IN A THETA PINCH FUSION TEST REACTOR. 10-30

ENGINEERING DESIGN OF A LINEAR THETA PINCH HYBRID REACTOR (LTPHR). 10-31

ENVIRONMENTAL AND TECHNOLOGICAL IMPLICATIONS OF A THETA PINCH FUSION POWER PLANT. 10-33

EXPERIMENTAL STUDY OF PLASMA END LOSS FROM A LINEAR THETA PINCH. 10-36

EXPLODING LINER INITIATED DENSE Z PINCH. 10-37

FLUTE INSTABILITIES IN TWO DIMENSIONAL SIMULATIONS OF STRONGLY INHOMOGENEOUS THETA PINCH PLASMAS. 10-40

HYBRID SIMULATION OF SCREW PINCH IMPLOSIONS WITH IMPURITIES AND OF THETA PINCH IMPLOSIONS RESULTING IN REFLECTED ION BEAMS. 10-53

IMPLOSION HEATING STUDIES IN THE SCYLLA 1B, IMPLOSION HEATING, AND STAGED THETA PINCH EXPERIMENTS. 10-56

IMPLOSION MEASUREMENTS IN A HIGH VOLTAGE, LARGE DIAMETER, MEDIUM DENSITY THETA PINCH. 10-57

INITIAL LASER PLASMA INTERACTION EXPERIMENTS IN THE SCYLLA I-C THETA PINCH. 10-60

ION STAGE BUILDUP IN A THETA PINCH SEEDED WITH IRON. 10-64

ION TEMPERATURE MEASUREMENTS ON THE ZT-1 REVERSED FIELD PINCH. 10-66

KINETIC NONLOCAL ANALYSIS OF CROSS FIELD INSTABILITIES IN THETA PINCH PLASMAS. 10-67

LASER PLASMA INTERACTION IN THE SCYLLA I-C THETA PINCH. 10-69

LASL REVERSED FIELD PINCH PROGRAM PLAN. 10-71

LINEAR THETA PINCH AS A 14 NEUTRON SOURCE. 10-72

LINEAR THETA PINCH FERF. 10-73

LINEAR THETA PINCH NEUTRON SOURCE. 10-74

LTPF: A LINEAR THETA PINCH NEUTRON SOURCE. 10-75

MAGNETIC FIELD AND PLASMA DENSITY MEASUREMENTS IN THE STAGED THETA PINCH EXPERIMENT. 10-77

NUCLEONIC DESIGN SENSITIVITY ANALYSIS FOR THE REFERENCE THETA PINCH REACTOR (RTPR). 10-86

NUMERICAL STUDIES OF THE LINEAR THETA PINCH. 10-90

PARTIAL CHRONOLOGY OF Z PINCH STUDIES AT LOS ALAMOS SCIENTIFIC LABORATORY, 1952-1975. 10-97

CONCEPTUAL DESIGN OF A THETA PINCH POWER PLANT. 19-2

PINCHES
THERMAL CONDUCTION ALONG STRAIGHT THETA PINCHES AND PLASMA COLUMNS. 10-145

HYBRID MODEL STUDIES OF MAGNETIC FIELD DIFFUSION IN HIGH BETA PINCHES. 10-52

IMPLOSION AND STAGING IN THETA PINCHES. 10-55

CHARACTERISTICS OF HIGH DENSITY THETA PINCHES SEEDED WITH SELECTED HIGH Z ELEMENTS. 10-6

NONLOCAL ANALYSIS OF CROSS FIELD INSTABILITIES IN THETA PINCHES. 10-65

NUMERICAL MODELING OF MAGNETIC IMPLOSION HEATING AND FIELD DIFFUSION IN PINCHES. 10-67

PINHOLE
CALCULATION OF X RAY PINHOLE PHOTOGRAPHS. 20-13

X RAY PINHOLE CAMERAS FOR LASER PLASMA EXPERIMENTS. 20-165

FAST FRAMING AND X RAY PINHOLE CAMERA TECHNIQUES FOR STUDY OF LASER GENERATED PLASMAS. 20-44

PINS
QUANTITATIVE DETERMINATION OF FISSION PRODUCTS IN IRRADIATED FUEL PINS USING NONDESTRUCTIVE GAMMA SCANNING. 2-21

QUANTITATIVE DETERMINATION OF FISSION PRODUCTS IN IRRADIATED FUEL PINS USING NONDESTRUCTIVE GAMMA SCANNING. 2-22

AXIAL DISTRIBUTIONS OF NIOBIUM -95 AND ZIRCONIUM -95 ISOTOPES IN IRRADIATED URANIUM DIOXIDE - PLUTONIUM DIOXIDE FUEL PINS. 2-3

PINTEMP
PINTEMP: A COMPUTER PROGRAM FOR FUEL ELEMENT DESIGN CALCULATIONS. 28-25

PION
SURVIVAL OF CULTURED MAMMALIAN CELLS IRRADIATED AT VARIOUS DEPTHS IN THE LAMPF NEGATIVE PION THERAPY BEAM. 5-139

BIOMEDICAL PROGRAM LEADING TO THERAPEUTIC TRIALS OF PION RADIATION THERAPY AT LOS ALAMOS. 5-16

CHARACTERISTICS OF A NEGATIVE PION BEAM FOR THE IRRADIATION OF SUPERFICIAL NODULES. 5-37

CHARACTERISTICS OF A NEGATIVE PION BEAM IN A THERAPEUTIC APPLICATION. 5-38

COMPUTER MODELING OF NEUTRON DOSE AT VARIOUS LOCATIONS WITHIN THE BODY DURING PION RADIOTHERAPY. 5-46

DOSIMETRY FOR PION BEAMS AT LAMPF. 5-57

DESIGN OF THE LAMPF LOW ENERGY PION CHANNEL. 22-10

INELASTIC PION - NUCLEUS SCATTERING IN DWIA. 22-20

OFF SHELL EFFECTS IN THE REACTION PROTON + PROTON TO NEUTRON + PROTON + POSITIVE PION. 22-35

PERFORMANCE OF THE HIGH ENERGY PION BEAM AT LAMPF. 22-38

PION CHARGE EXCHANGE ON CARBON -13. 22-42

LOW ENERGY PION - NUCLEON AND PION -DEUTERON INTERACTIONS 25-105

MASS NUMBER DEPENDENCE OF THE PION -NUCLEUS SCATTERING LENGTHS. 25-108

MODEL OF THE PROTON PLUS PROTON GOES TO PROTON PLUS NEUTRON PLUS POSITIVE PION REACTION AT 766 MEV. 25-119

NON-EIKONAL APPROACH TO THE SCATTERING OF HADRONS FROM NUCLEI. 2. PROTON AND PION SCATTERING FROM DEUTERIUM, HELIUM -3 AND HELIUM -4. 25-139

NUCLEAR MATTER THEORY FOR PION SCATTERING FROM NUCLEI. 25-144

OBSERVATION OF THE RECOIL PROTON IN QUASIELASTIC PION SCATTERING. 25-148

PHOTON SPECTRUM IN PION CAPTURE ON TRITIUM. 25-165

PION CHARGE EXCHANGE ON TRITIUM. 25-167

PION CHARGE EXCHANGE REACTIONS WITH NUCLEI 25-168

PION CHARGE EXCHANGE SCATTERING FROM LIGHT NUCLEI. 25-169

PION CHARGE EXCHANGE SCATTERING FROM LITHIUM -7, BORON -10, AND CARBON -13 25-170

PION PRODUCTION FROM A CLASSICAL SOURCE: TRANSPORT AND HYDRODYNAMICAL PROPERTIES. 25-171

PION PRODUCTION IN NUCLEON - NUCLEON COLLISIONS. 25-172

PION SCATTERING FROM LIGHT NUCLEI. 25-173

QUASI-ELASTIC PION SCATTERING IN THE (3,3) RESONANCE REGION. 25-189

QUASIFREE PION PRODUCTION AS SEEN IN NEUTRON - DEUTERON REACTIONS WITH A FINAL FAST DEUTERON. 25-190

ROLE OF TWO NUCLEON SHORT RANGE CORRELATIONS IN PION CHARGE EXCHANGE REACTIONS WITH NUCLEI. 25-198

(PI,PI-N) PUZZLE: EFFECTS OF PION CHARGE EXCHANGE. 25-2

SEMICLASSICAL MODEL FOR PION PRODUCTION BY NEUTRONS ON NUCLEI. 25-203

SIMPLE OPTICAL MODEL FOR PION - NUCLEUS SCATTERING. 25-205

SURVEY OF PION CHARGE EXCHANGE REACTIONS WITH NUCLEI. 25-213

SYSTEMATICS OF PION AND PROTON INTERACTIONS WITH NICKEL NUCLIDES. 25-214

THRESHOLD OF PION CONDENSATION. 25-222

CHIRAL SYMMETRY AND PION CONDENSATION. 1. MODEL DEPENDENT RESULTS. 25-29

CHIRAL SYMMETRY AND PION CONDENSATION. 2. GENERAL FORMALISM. 25-30

EFFECT OF SHORT RANGED UNITARY TRANSFORMS ON THE RATE OF THE REACTION NEGATIVE PION PLUS DEUTERON GOES TO GAMMA RAY PLUS TWO NEUTRONS. 25-52

EFFECTS OF NUCLEON CHARGE EXCHANGE ON THE PION KNOCKOUT PUZZLE. 25-54

EFFECTS OF PION MULTIPLE SCATTERING ON THE DISTRIBUTION OF RESIDUAL NUCLEI. 25-55

ELASTIC PION HELIUM -4 SCATTERING. 25-56

EXPERIMENTAL STUDY OF THE PI+ + DEUTERON TO PROTON + PROTON REACTION AT PION ENERGIES OF 40, 50, AND 60 MEV. 25-77

FAST PION INDUCED PROCESSES IN COMPLEX NUCLEI: CROSS SECTION AND ALPHA REMOVAL. 25-79

ACTIVATION STUDIES OF PION INDUCED REACTIONS ON CARBON, NITROGEN, OXYGEN, FLUORINE, ALUMINUM AND COPPER. 25-8

PIONEER
LIMIT ON THE PHOTON MASS DEDUCED FROM PIONEER 10 OBSERVATIONS OF JUPITER'S MAGNETIC FIELD. 3-24

DEGRADATION OF PIONEER TYPE TANTALUM ALLOY - PLUTONIUM DIOXIDE HEAT SOURCES. 23-9

PIONIC
OBSERVATION OF THE E2 NUCLEAR RESONANCE EFFECT IN PIONIC CADMIUM -112. 22-34

PIONS
MICRODOSIMETRY OF NEGATIVE PIONS AT LAMPF 6-101

PIONS AND HEAVY IONS IN RADIOTHERAPY. A BRIEF REVIEW. 6-113

BIOLOGICAL EFFECTS OF NEGATIVE PIONS 6-12

SPATIAL DISTRIBUTION OF EFFECTS OF NEGATIVE PIONS ON CULTURED HUMAN CELLS 6-126

CELL SURVIVAL AS A FUNCTION OF DEPTH FOR NEGATIVE PIONS AND HEAVY IONS 6-30

INITIAL COMPARATIVE RESPONSE OF EXPERIMENTAL TUMORS TO PEAK PIONS AND X RAYS 6-91

NEUTRON KNOCKOUT BY PIONS ON NITROGEN -14, OXYGEN -16, AND FLUORINE -19 25-131

SPALLATION OF COPPER BY 190 MEV PIONS AND 340 MEV PROTONS. 25-207

THEORY OF THE SCATTERING OF PIONS BY NUCLEAR MATTER. 25-219

ELASTIC SCATTERING OF LOW ENERGY PIONS ON PROTONS. 25-58

ELASTIC SCATTERING OF POSITIVE PIONS BY CARBON AT 147 MEV. 25-59

ABSOLUTE CROSS SECTIONS FOR PRODUCTION OF PROMPT NUCLEAR GAMMA RAYS BY FAST PIONS. 25-7

PIPE
ENERGY RECOVERY AND OTHER ENERGY RELATED APPLICATIONS OF THE HEAT PIPE. 12-9

LASER APPLICATION OF HEAT PIPE TECHNOLOGY IN ENERGY RELATED PROGRAMS. 20-67

PIPES
PERFORMANCE TESTS OF GRAVITY ASSIST HEAT PIPES WITH SCREEN WICK STRUCTURES 13-12

GRAVITY ASSIST HEAT PIPES FOR THERMAL CONTROL SYSTEMS. 13-7

APPLICATION OF A DRIFT - FLUX MODEL TO FLASHING IN STRAIGHT PIPES. 18-2

NUMERICAL CALCULATION OF FLASHING FROM LONG PIPES USING A TWO FIELD MODEL. 18-26

PIRK
FITPI- MODIFICATIONS TO THE OPTICAL MODEL PROGRAM PIRK FOR PARAMETER SEARCHES AND TOTAL CROSS SECTIONS. 29-3

PIT
PIT CATALOG. DESTINATION KIT. 30-62

PLAN
LASL REVERSED FIELD PINCH PROGRAM PLAN. 10-71

PLANAR
PLANAR CHANNELING THEORY: QUANTUM AND CLASSICAL. 27-13

PLANE
GEOTHERMAL RESERVOIR MODELS: CRACK PLANE MODEL. 11-23

NONSTEADY STATE DETONATIONS IN ONE DIMENSIONAL PLANE, DIVERGING, AND CONVERGING GEOMETRIES. 15-18

PLANE SHOCK INITIATION OF DETONATION: COMPUTER SIMULATION OF GAS GUN EXPERIMENT. 15-20

NUMERICAL STUDIES OF THE INTERPLAY BETWEEN SELF PHASE MODULATION AND DISPERSION FOR INTENSE PLANE WAVE LASER PULSES. 20-106

PLANES
DELAY LINE READOUT OF ANODE PLANES IN PROPORTIONAL CHAMBERS. 19-3

PLANETARY
HIGH ENERGY NUCLEAR REACTIONS IN OUR PLANETARY SYSTEM. 25-93

PLANS
COMPUTING AT LASL: PERSPECTIVES, POLICIES, AND PLANS. 21-24

PLANT
SAMPLING MIXTURES OF SOIL AND CARBON -14 LABELED PLANT MATERIALS. 2-24

DECOMPOSITION OF CARBON -14 LABELED PLANT MATERIALS IN A GRASSLAND SOIL UNDER FIELD CONDITIONS. 5-49

ASPECTS OF THETA PINCH POWER PLANT DEVELOPMENT. 10-3

ENVIRONMENTAL AND TECHNOLOGICAL IMPLICATIONS OF A THETA PINCH FUSION POWER PLANT. 10-33

ANALYSIS OF GEOTHERMAL POWER PLANT WATER USING GAMMA RAYS FROM CAPTURE OF CALIFORNIUM -252 NEUTRONS. 11-3

CONCEPTUAL DESIGN OF A THETA PINCH POWER PLANT. 10-2

CONCERNS OF INTERVENORS IN NUCLEAR POWER PLANT LICENSING HEARINGS 30-14

PLANTS
ENVIRONMENTAL PATHWAYS OF PLUTONIUM INTO TERRESTRIAL PLANTS AND ANIMALS 17-24

SYSTEMS ANALYSIS OF LASER FUSION POWER PLANTS. 20-148

PLAQUE
KINETICS OF HEMOLYTIC PLAQUE FORMATION. 2. INHIBITION OF PLAQUES BY HAPTEN 5-87

KINETICS OF HEMOLYTIC PLAQUE FORMATION. 3. INHIBITION OF PLAQUES BY ANTIGEN 5-88

KINETICS OF HEMOLYTIC PLAQUE FORMATION. 4. IGM PLAQUE INHIBITION. 5-89

KINETICS OF HEMOLYTIC PLAQUE FORMATION. 5. THE INFLUENCE OF GEOMETRY ON PLAQUE GROWTH. 5-90

PLAQUES
KINETICS OF HEMOLYTIC PLAQUE FORMATION. 2. INHIBITION OF PLAQUES BY HAPTEN 5-87

KINETICS OF HEMOLYTIC PLAQUE FORMATION. 3. INHIBITION OF PLAQUES BY ANTIGEN 5-88

PLASMA
FAST SOLAR ELECTRONS, INTERPLANETARY PLASMA AND KM WAVE TYPE III RADIO BURSTS OBSERVED FROM THE IMP-6 SPACECRAFT. 1-10

INVESTIGATION OF SUBSTORM RELATED PLASMA SHEET THINNING WITH IMP-8 1-15

L = 6.6 OOSIK BARIUM PLASMA INJECTION EXPERIMENT AND MAGNETIC STORM OF MARCH 7, 1972. 1-16

COMPLETE PLASMA DROPOUTS AT VELA SATELLITES DURING THINNING OF THE PLASMA SHEET. 1-2

PROLONGED EARTHWARD FLOW OF MAGNETOTAIL PLASMA ASSOCIATED WITH STEADY SOUTHWARD IMF. 1-20

RECENT OBSERVATIONS RELATING TO THE DYNAMICS AND ORIGIN OF THE MAGNETOTAIL PLASMA SHEET. 1-22

RESPONSE OF THE PLASMA SHEET AT APPROXIMATELY 18 EARTH RADII TO SUDDEN SOUTHWARD TURNINGS OF THE INTERPLANETARY MAGNETIC FIELD. 1-23

DISTRIBUTION OF PLASMA SHEET THINNING AND RECOVERY EVENTS IN THE MAGNETOTAIL SURVEYED BY THE IMP-6 SATELLITE. 1-3

TWO BARIUM PLASMA INJECTIONS INTO THE NORTHERN MAGNETOSPHERIC CLEFT 1-30

PLASMA EXPERIMENTS IN THE SCYLLAC TOROIDAL THETA PINCH. 10-100

PLASMA EXPERIMENTS ON THE HIGH DENSITY SCYLLA I-C THETA PINCH. 10-101

PLASMA PARAMETERS AND STABILITY OF THE ZT-1 PINCH EXPERIMENT. 10-102

PLASMA TEMPERATURE MEASUREMENTS ON THE ZT-1 PINCH. 10-103

PRESSURE PROFILES IN A THERMONUCLEAR PLASMA SHEATH CONTAINING ENERGETIC ALPHA PARTICLES. 10-106

RADIAL PLASMA STRUCTURE DURING A THETA PINCH IMPLOSION: FLUTE INSTABILITIES. 10-110

REPORT OF THE AD HOC COMMITTEE ON FUSION PLASMA RESEARCH FACILITIES. 10-112

SLOWING-IN DISTRIBUTION OF FAST PARTICLES RELEASED IN MAXWELLIAN PLASMA. 10-125

SUPERSONIC FLOW RESULTING FROM THE INTERACTION OF A HIGH FREQUENCY CAPACITOR OR ELECTROMAGNETIC FIELD WITH AN EXPANDING PLASMA. 10-141

SYNCHROTRON RADIATION SPECTRUM FOR A RELATIVISTIC PLASMA COLUMN. 10-143

THERMAL CONDUCTION ALONG STRAIGHT THETA PINCHES AND PLASMA COLUMNS. 10-145

TRANSIENT FLOW AND EXPANSION OF A PINCH DISCHARGE PLASMA IN SELF INDUCED MAGNETIC FIELDS. 10-152

TWO DIMENSIONAL STABILITY OF AN ELECTROMAGNETIC WAVE OBLIQUELY INCIDENT ON A NONUNIFORM PLASMA. 10-153

DYNAMIC MODEL OF GROSS PLASMA MOTION IN SCYLLAC. 10-22

DYNAMICS OF THE DENSE PLASMA FOCUS AS DETERMINED FROM AN ANALYSIS OF LASER SCATTERING SPECTRA. 10-23

ENERGY LOSS OF A RELATIVISTIC, FINITE ELECTRON BEAM IN A PLASMA. 10-28

ENHANCED WEAK-FIELD ELECTRICAL RESISTIVITY OF A PARAMETRICALLY UNSTABLE PLASMA. 10-32

EXPERIMENTAL STUDY OF PLASMA END LOSS FROM A LINEAR THETA PINCH. 10-36

HETERODYNE INTERFEROMETRY PLASMA DENSITY MEASUREMENT 10-47

HOT ELECTRON PRODUCTION, ANOMALOUS ABSORPTION AND EFFECT OF INTENSE ELECTROMAGNETIC FIELDS ON INVERSE BREMSSTRAHLUNG ABSORPTION NEAR THE ELECTRON PLASMA FREQUENCY. 10-50

INFLUENCE OF SELF FIELDS ON THE FILAMENTATION INSTABILITY IN RELATIVISTIC BEAM PLASMA SYSTEMS. 10-59

INFLUENCE OF SELF FIELDS ON THE VLASOV EQUILIBRIUM AND STABILITY PROPERTIES OF RELATIVISTIC ELECTRON BEAM - PLASMA SYSTEMS. 10-59

INITIAL LASER PLASMA INTERACTION EXPERIMENTS IN THE SCYLLA I-C THETA PINCH 10-60

INITIAL VALUE PROBLEM IN RELATIVISTIC PLASMA. 10-61

ION COUPLING, ELECTRON HEATING, AND MAGNETIC TURBULENCE FROM PLASMA INSTABILITIES 10-63

LASER - PLASMA INTERACTIONS IN THE SCYLLA I-C EXPERIMENT: PRELIMINARY ANALYSIS 10-68

LASER PLASMA INTERACTION IN THE SCYLLA I-C THETA PINCH. 10-69

CHARGED PARTICLE MASS AND ENERGY DEPOSITION IN A THERMONUCLEAR PLASMA 10-7

MAGNETIC FIELD AND PLASMA DENSITY MEASUREMENTS IN THE STAGED THETA PINCH EXPERIMENT. 10-77

COMPARISON OF THREE TWO DIMENSIONAL ELECTROSTATIC PLASMA SIMULATION MODELS. 10-8

MOTION OF A PLASMA COLUMN IN A PERTURBING MAGNETIC FIELD. 10-82

OBLIQUE SHOCKS IN A MAGNETIZED PLASMA. 10-91

ON-LINE PLASMA BETA CALCULATION. 10-93

PLASMA EQUILIBRIUM DISTORTIONS IN THE SCYLLAC SECTOR. 10-98

PLASMA EQUILIBRIUM IN THE SCYLLAC FEEDBACK SECTOR. 10-99

PLASMA HEATING BY RELATIVISTIC ELECTRON BEAMS. PART 2. RETURN CURRENT INTERACTION. 20-117

PLASMA SIMULATION STUDIES OF STIMULATED SCATTERING PROCESSES IN LASER IRRADIATED PLASMAS. 20-118

RECENT DEVELOPMENTS IN UNDERSTANDING THE PLASMA PHYSICS OF LASER TARGET INTERACTIONS. 20-130

RELATIVISTIC PLASMA DISPERSION FUNCTION. 20-132

THEORY AND SIMULATION OF RESONANT ABSORPTION IN A HOT PLASMA. 20-152

X RAY PINHOLE CAMERAS FOR LASER PLASMA EXPERIMENTS. 20-165

COLLISIONAL DAMPING OF LANGMUIR WAVES IN ONE DIMENSIONAL PLASMA SIMULATIONS. 20-19

PRECIPITATION
COPRECIPITATION OF URANIUM AND PLUTONIUM OXALATES USING SODIUM FORMALDEHYDE SULFOXYLATE REDUCTION AND DIETHYL OXALATE HYDROLYSIS PRECIPITATION 2-7

PRECISION
TECHNIQUES FOR HIGH PRECISION MAGNETIC FIELD MAPPING OF LARGE AREA DIPOLES 22-51

NEW HIGH PRECISION MEASUREMENT OF THE MUONIUM HYPERFINE STRUCTURE INTERVAL DELTA NU 25-137

PRECISION MEASUREMENT OF 1S(0,2) MUONIUM HYPERFINE STRUCTURE INTERVAL DELTA NU 2 RESULTS 25-178

PRECURSORS
QUANTITATIVE ANALYSIS OF CARBON - CARBON COUPLING IN THE CARBON 13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF MOLECULES BIOSYNTHESIZED FROM CARBON 13 ENRICHED PRECURSORS 14-10

PREDICT
SPECT A MONTE CARLO PROGRAM TO PREDICT THE EXPECTED TIME TO NEXT FAILURE IN CONTROLLED THERMONUCLEAR RESEARCH SYSTEMS 16-156

PREDICTING
MODEL FOR PREDICTING THE REDISTRIBUTION OF PARTICULATE CONTAMINANTS FROM SOIL SURFACES 11-30

PREDICTIONS
LATE TIME PHENOMENOLOGY PREDICTIONS WITH A3 ALMOST LAGRANGIAN CODE 18-22

PREFERENCE
ON THE PREFERENCE FOR VIBRATIONAL ENERGY IN DIATOMIC DISSOCIATION 4-46

PREHEAT
PREHEAT EFFECTS ON MICROBALLOON LASER FUSION IMPLOSIONS 20-119

PREHEAT EFFECTS ON MICROBALLOON LASER FUSION IMPLOSIONS 20-120

PREMONITORY
EMF'S ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM: BARE ELECTRODE EFFECTS, USE OF N UNEQUAL TO 2, PREMONITORY PHENOMENA AND LIQUID STRUCTURE IN GOLD -CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS 7-5

PREPARATION
SEQUENTIAL BIOCHEMICAL EVENTS IN PREPARATION FOR DNA REPLICATION AND MITOSIS 5-130

CELL PREPARATION AND STAINING FOR FLOW SYSTEMS. 5-29

PREPARATION OF HIGH T(C) NIOBIUM(3) GERMANIUM SUPERCONDUCTORS BY CHEMICAL VAPOR DEPOSITION. 8-37

CHEMICAL METHODS FOR PREPARATION OF COMBINATIONS OF MOLYBDENUM, TUNGSTEN, AND URANIUM OXIDES. 23-4

PREPARATIVE
PREPARATIVE METHODS FOR ANALYSIS OF DNA, PROTEIN AND NUCLEAR - TO - CYTOPLASMIC RATIOS IN NORMAL AND TUMOR CELL POPULATIONS. 5-118

PRESENTATION
LOS ALAMOS PRESENTATION ON LASER FUSION TO THE JOINT COMMITTEE ON ATOMIC ENERGY, WASHINGTON, DC, MARCH 13, 1975. 20-66

PRESENTED
INCREASING THE RELEVANCE OF DATA PRESENTED TO THE OPERATORS IN AN ACCELERATOR CONTROL SYSTEM. 22-19

SPECIAL REPORT PRESENTED AT JULY MEETING WITH C. A. THOMAS ON FINAL PURIFICATION AND METALLURGY OF 49. 23-53

SPECIAL REPORT PRESENTED AT MAY MEETING WITH C. A. THOMAS ON FINAL PURIFICATION AND METALLURGY OF 49. 23-54

PRESSURE
PRESSURE PROFILES IN A THERMONUCLEAR PLASMA SHEATH CONTAINING ENERGETIC ALPHA PARTICLES. 10-106

VLASOV FLUID MODEL WITH ELECTRON PRESSURE. 10-155

LABORATORY AND NUMERICAL STUDIES OF WATER - GRANITE INTERACTIONS AT ELEVATED TEMPERATURE AND PRESSURE. 11-25

CRITICAL BOREHOLE PRESSURE FOR A VERTICAL HYDRAULIC CRACK IN THE PRESENCE OF TWO PRINCIPAL TOTAL STRESSES. 11-9

PROJECTILE VELOCITY MEASUREMENTS AND QUARTZ AND MANGANIN GAUGE PRESSURE DETERMINATIONS IN GAS GUN EXPERIMENTS. 16-22

ROTATIONAL TEMPERATURE IN A HIGH PRESSURE PULSED CARBON DIOXIDE LASER. 20-134

TIME DEPENDENCE OF ROTATIONAL TEMPERATURE IN A HIGH PRESSURE PULSED CARBON DIOXIDE LASER. 20-155

UV PHOTOIONIZATION PROCESSES IN SEEDED HIGH PRESSURE LASER GASES. 20-162

ANOMALOUS DISPERSION EFFECTS ON PULSE PROPAGATION IN HIGH PRESSURE CARBON DIOXIDE AMPLIFIERS 20-8

EFFECT OF PRESSURE ON CURIE TEMPERATURE OF URANIUM (FE) XMNX/2 COMPOUNDS 23-12

50 MEV POLARIZED NEUTRON FACILITY INCORPORATING A HIGH PRESSURE TRITIUM GAS TARGET 25-6

POSSIBLE DETECTION OF ATOMIC BOMB EXPLOSION BY PRESSURE MEASUREMENTS AT THE ANTIPODES 30-63

PRESSURIZATION
EXTERNAL PRESSURIZATION AS A MEANS OF UPGRADING GLASS MICROBALLOONS 20-47

PRESTRESSED
PRESTRESSED CONCRETE REACTOR VESSELS REVIEW OF DESIGN AND FAILURE CRITERIA 28-39

PRICES
ROCKY MOUNTAIN ENERGY 1974 FLOWS, EMPLOYMENT, PRICES 12-18

PRIMACORD
DAMAGE TO LENGTHS OF PRIMACORD BY DETONATION OF NEARBY LENGTHS 15-3

PRIMARY
REACTIONS OF DIATOMIC RARE GAS IONS WITH RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 50 EV 4-51

MOISTURE DETECTOR FOR THE PRIMARY LOOP OF GAS COOLED REACTORS 28-23

PRIME
ELECTRONIC STRUCTURE OF ALPHA PRIME CERIUM 4-20

RADIOCHEMICAL MEASUREMENTS ON KIWI-A PRIME SUMMARY REPORT 30-73

PRINCIPAL
CRITICAL BOREHOLE PRESSURE FOR A VERTICAL HYDRAULIC CRACK IN THE PRESENCE OF TWO PRINCIPAL TOTAL STRESSES 11-9

PRINCIPLE
TEST OF THE GENERALIZED PAULI PRINCIPLE AND OF SUPERMULTIPLET SYMMETRY IN THE REACTIONS TRITON + BERYLLIUM -8 TO LITHIUM -6 + HELIUM -6, LITHIUM -6(*0+) + HELIUM -6 25-217

PROBABLE
MEAN, MEAN SQUARE AND MOST PROBABLE MOMENTUM FOR A RELATIVISTIC MAXWELLIAN ENSEMBLE 18-24

PROBE
ELECTRIC FIELD INDUCED HARMONIC GENERATION AS A PROBE OF THE FOCAL REGION OF A LASER BEAM 20-32

PROBES
MAMMALIAN CELLS: PROBES AND PROBLEMS. 1973. 1ST LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROCEEDINGS. 5-95

PROBLEM
APPLICATIONS OF LINEAR PULSATION THEORY TO THE CEPHEID MASS PROBLEM AND THE DOUBLE MODE CEPHEIDS. 3-4

INITIAL VALUE PROBLEM IN RELATIVISTIC PLASMA. 10-61

APPROXIMATE SOLUTION OF THE ADIABATIC EXPLOSION PROBLEM. 15-1

CANONICAL RESOLUTION OF THE MULTIPLICITY PROBLEM FOR U(3): AN EXPLICIT AND COMPLETE CONSTRUCTIVE SOLUTION. 21-15

COMPARING CERTAIN CLASSES OF DIFFERENCE AND FINITE ELEMENT SCHEMES FOR A HYPERBOLIC PROBLEM. 21-17

NUMERICAL EVALUATION OF THE AZIMUTHALLY DEPENDENT ALBEDO PROBLEM IN SLAB GEOMETRY. 21-55

PROBLEM OF THE N LIARS. 21-66

RELEVANCE OF NUCLIDE MIGRATION AT OKLO TO THE PROBLEM OF GEOLOGIC STORAGE OF RADIOACTIVE WASTE. 30-78

PROCEDURE
PROCEDURE FOR THE RAPID LYSIS OF MAMMALIAN CELLS PRIOR TO ALKALINE SUCROSE DENSITY GRADIENT CENTRIFUGATION. 5-119

THIN WINDOWS FOR GASEOUS AND LIQUID TARGETS: AN OPTIMIZATION PROCEDURE. 8-56

PROCEDURES
SPECIFICATIONS AND TEST PROCEDURES FOR AIRLINE TYPE SUPPLIED AIR SUITS. 17-56

MACHINING AND INSPECTION PROCEDURES USED AT LOS ALAMOS SCIENTIFIC LABORATORY FOR FUEL ELEMENTS OF THE KIWI-B4 SERIES. 30-45

PROCEEDINGS
PLUTONIUM: HEALTH IMPLICATIONS FOR MAN. 1974. 2ND LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROCEEDINGS. 5-115

MAMMALIAN CELLS: PROBES AND PROBLEMS. 1973. 1ST LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROCEEDINGS. 5-95

NUMERICAL METHODS IN FLUID DYNAMICS 1974 5TH INTERNATIONAL CONFERENCE, BOULDER PROCEEDINGS, LECTURE NOTES IN PHYSICS, V 35. 18-32

AEROSPACE INSTRUMENTATION 1973 19TH INTERNATIONAL SYMPOSIUM, LAS VEGAS, NV PROCEEDINGS, INSTRUMENTATION IN THE AEROSPACE INDUSTRY, V 19. 19-1

INSTRUMENTATION 1974 20TH INTERNATIONAL SYMPOSIUM, ALBUQUERQUE, NM PROCEEDINGS, INSTRUMENTATION IN THE AEROSPACE INDUSTRY, V 20, ADVANCES IN TEST MEASUREMENT, V 11 19-9

PROCEEDINGS OF AN ADVANCED NUCLEAR PROPULSION SYMPOSIUM. 30-65

PROCESS
RAPID DIGESTION PROCESS FOR DETERMINATION OF TRICHINELLAE IN MEAT 5-122

DEVELOPMENT PROGRAM FOR THE HIGH TEMPERATURE NUCLEAR PROCESS HEAT SYSTEM 12-6

NUCLEAR PROCESS HEAT 13-11

PROCESS FOR PRODUCING 1,5 DIACETYL 3,7 DINITRO 1,3,5,7 TETRAAZOCYCLOOCTANE 15-21

OXYGEN -18 ENRICHMENT PROCESS IN URANIUM OXYFLUORIDE UTILIZING LASER LIGHT 20-113

METAL PRODUCTION PROCESS MANUAL PLUTONIUM PRODUCTION 23-39

PROCESS FOR IMPROVING THE LOW TEMPERATURE DUCTILITY OF TUNGSTEN BASE COMPOSITES 23-66

PROCESSES
PHOTOABSORPTION PROCESSES IN FLUORINE 4-49

FOURIER TRANSFORM CARBON -13 MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS 2 LIGAND SUBSTITUTION PROCESSES 7-7

MANTLE PROCESSES BENEATH HAWAII. 11-29

PLASMA SIMULATION STUDIES OF STIMULATED SCATTERING PROCESSES IN LASER IRRADIATED PLASMAS 20-110

THEORY OF STIMULATED SCATTERING PROCESSES IN LASER IRRADIATED PLASMAS. 20-153

UV PHOTOIONIZATION PROCESSES IN SEEDED HIGH PRESSURE LASER GASES 20-162

1,
EXCHANGE EFFECTS FROM WEAK RADIATIVE MESONIC TRANSITIONS IN PARITY VIOLATING NUCLEAR PROCESSES 25-71

FAST PION INDUCED PROCESSES IN COMPLEX NUCLEI CROSS SECTION AND ALPHA REMOVAL 25-79

IMPLICATIONS OF PARITY VIOLATING EFFECTS IN STRANGENESS CONSERVING NONLEPTONIC PROCESSES. 25-90

UNIFIED APPROACH TO MULTIPARTICLE PRODUCTION PROCESSES AT HIGH ENERGY. 27-20

PROCESSING
DIGITAL IMAGE PROCESSING 21-29

SCAN AND DISPLAY CONSIDERATIONS IN PROCESSING IMAGES BY DIGITAL COMPUTER 21-71

NJOY A NEUTRON AND PHOTON CROSS SECTION PROCESSING SYSTEM 25-130

CHARACTERIZATION OF TRANSURANIC SOLID WASTES FROM A PLUTONIUM PROCESSING FACILITY 30-11

PRODUCED
LASER PRODUCED L-SERIES X RAY SPECTRA 4-34

ATMOSPHERIC IONIZATION PRODUCED BY SPRINT BURSTS 4-4

SATELLITE LINE SPECTRA FROM LASER PRODUCED PLASMAS 4-59

BACKSCATTER MEASUREMENTS FROM LASER PRODUCED PLASMAS AT 10.6 MICRONS. 20-10

NEUTRON EMISSION FROM LASER PRODUCED PLASMAS 20-100

OPTICS IN LASER PRODUCED PLASMAS. 20-112

SYMMETRY AND STABILITY STUDIES OF THERMALLY GENERATED MAGNETIC FIELDS IN LASER PRODUCED PLASMAS. 20-147

X RAY CONTINUUM AND LINE RADIATION FROM PLASMAS PRODUCED BY 10.6 MICROMETER LASER FOCUSED ON FLAT TARGETS. 20-164

EFFECT OF SECONDARY ELECTRONS ON CHARGE COLLECTOR MEASUREMENT OF A LASER PRODUCED PLASMA. 20-30

EMITTED ELECTRON SPECTRA FROM PLASMAS PRODUCED WITH NEODYMIUM AND CARBON DIOXIDE LASERS. 20-36

HIGH ENERGY IONS FROM A CARBON DIOXIDE LASER PRODUCED PLASMA. 20-48

MAGNETIC FIELDS IN LASER PRODUCED PLASMAS 20-67

MEASUREMENTS OF ALPHA PARTICLES AND PROTONS, PRODUCED FROM LASER FUSION 20-89

YIELD STRENGTH OF FINE GRAINED VANADIUM PRODUCED BY HIGH RATE PHYSICAL VAPOR DEPOSITION 23-64

RADIOCHEMICAL STUDIES OF SOME LOW AND MEDIUM ENERGY NUCLEAR REACTIONS PRODUCED BY ACCELERATED TRITONS, DEUTERONS, AND PROTONS 25-194

SPECTRUM AND SHIELDING MEASUREMENTS AND CALCULATIONS OF NEUTRONS PRODUCED BY 800 MEV PROTONS 25-208

CHARACTERISTICS OF LOW Z FRAGMENTS PRODUCED IN THE INTERACTION OF 800 MEV PROTONS WITH URANIUM 25-25

ENERGY AND ANGULAR DISTRIBUTION OF NEUTRONS PRODUCED BY 800 MEV PROTON PROTON COLLISIONS 25-64

PRODUCING
PROCESS FOR PRODUCING 1,5 DIACETYL 3,7 DINITRO 1,3,5,7 TETRAAZOCYCLOOCTANE 15-21

PRODUCT
FISSION PRODUCT GAMMA AND (GAMMA,NEUTRON) SPECTRA AND GAMMA DECAY HEAT 16-2

FISSION PRODUCT GAMMA RAY AND PHOTONEUTRON SPECTRA 16-3

REAL NUMBERS AS A WREATH PRODUCT 21-65

ENDF/B IV FISSION PRODUCT FILES SUMMARY OF MAJOR NUCLIDE DATA 25-63

PRODUCTION
QUANTITATIVE MEASUREMENT OF SV40 T ANTIGEN PRODUCTION 5-120

TRANSFER OF MOUSE IGG2 PRODUCTION BY IGM BEARING SPLEEN CELLS SEPARATED BY A FLUORESCENCE ACTIVATED CELL SORTER 5-141

MEDICAL RADIOISOTOPES FROM LAMPF STRONTIUM -82 - RUBIDIUM -82 PRODUCTION, RECOVERY, AND BIOMEDICAL GENERATOR 5-98

FUNDAMENTAL ASPECTS OF SYSTEMS FOR THE THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER 7-6

HOT ELECTRON PRODUCTION, ANOMALOUS ABSORPTION AND EFFECT OF INTENSE ELECTROMAGNETIC FIELDS ON INVERSE BREMSSTRAHLUNG ABSORPTION NEAR THE ELECTRON PLASMA FREQUENCY 10-50

NEUTRON ENERGY DEPENDENCE OF DEFECT PRODUCTION CROSS SECTIONS IN COPPER AND ALUMINUM 10-84

ROCK MELTING HOLE PRODUCTION SYSTEMS FOR EXPLORATORY AND PRODUCTION GEOTHERMAL ENERGY WELLS 11-67

FRAGMENT PRODUCTION IN THE INTERACTION OF 800 MEV PROTONS WITH URANIUM 22-10

METAL PRODUCTION PROCESS MANUAL PLUTONIUM PRODUCTION 23-39

MECHANISM OF HEAVY ION REACTIONS AND THE PRODUCTION OF SUPERHEAVY NUCLEI 25-116

MORE 14 MEV, NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS 25-122

NEUTRON PRODUCTION AT 0 DEGREES FROM THE REACTION PROTON - PROTON TO NEUTRON -PROTON - PI(+) AT THE MEDIUM ENERGIES 25-132

NUCLEAR MODELS AND DATA FOR GAMMA RAY PRODUCTION 25-145

PION PRODUCTION FROM A CLASSICAL SOURCE TRANSPORT AND HYDRODYNAMICAL PROPERTIES 25-171

PION PRODUCTION IN NUCLEON - NUCLEON COLLISIONS 25-172

PRODUCTION OF FLUORINE -18 USING ENERGETIC NEUTRONS FROM LAMPF BEAM STOP 25-179

QUASIFREE PION PRODUCTION AS SEEN IN NEUTRON - DEUTERON REACTIONS WITH A FINAL FAST DEUTERON. 25-190

SEMICLASSICAL MODEL FOR PION PRODUCTION BY NEUTRONS ON NUCLEI 25-203

TIME ORDERING OF HIGH ENERGY MULTIPARTICLE PRODUCTION 25-224

TRANSPORT AND HYDRODYNAMIC ASPECTS OF MULTIPARTICLE PRODUCTION. 25-226

ABSOLUTE CROSS SECTIONS FOR PRODUCTION OF PROMPT NUCLEAR GAMMA RAYS BY FAST PIONS 25-7

EVALUATION OF GAMMA RAY PRODUCTION CROSS SECTIONS FROM NEUTRON INDUCED REACTIONS ON TUNGSTEN 25-70

FOURTEEN MEV, NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS FOR SEVERAL ELEMENTS. 25-84

UNIFIED APPROACH TO MULTIPARTICLE PRODUCTION PROCESSES AT HIGH ENERGY 27-20

HIGH TEMPERATURE NUCLEAR REACTORS AS AN ENERGY SOURCE FOR HYDROGEN PRODUCTION 28-17

PRODUCTS
QUANTITATIVE DETERMINATION OF FISSION PRODUCTS IN IRRADIATED FUEL PINS USING NONDESTRUCTIVE GAMMA SCANNING 2-21

QUANTITATIVE DETERMINATION OF FISSION PRODUCTS IN IRRADIATED FUEL PINS USING NONDESTRUCTIVE GAMMA SCANNING 2-22

EXTRACTION OF FISSION PRODUCTS FROM ROVER FUEL ELEMENTS 30-26

PROFILE
CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES : AIRBORNE INSTRUMENTATION AND RESULTS 3-10

CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES : 30 MAY 1965 RESULTS: DECONVOLUTION AND INTERPRETATION 3-11

HIGH TEMPERATURE MEASUREMENTS OF THE STARK BROADENED HE II 4686 ANGSTROM LINE PROFILE 19-49

PROFILES
USE OF TWO ANGLE ELASTIC AND RAMAN SCATTERING TO OBTAIN MOLECULAR DENSITY AND AEROSOL SCATTERING PROFILES 1-31

HARTREE-FOCK COMPTON PROFILES FOR THE ELEMENTS 4-25

RELATIVISTIC HARTREE FOCK COMPTON PROFILES FOR THE RARE GASES AND LEAD 4-56

TEMPERATURE AND CURRENT DEPENDENCE OF THE MAGNETIC FIELD PROFILES OF NIOBIUM-TIN TAPES CARRYING A CURRENT 6-52

PRESSURE PROFILES IN A THERMONUCLEAR PLASMA SHEATH CONTAINING ENERGETIC ALPHA PARTICLES 10-106

PLUTONIUM, AMERICIUM AND URANIUM CONCENTRATIONS IN NEVADA TEST SITE SOIL PROFILES 17-43

PROGRAM
ALLCAL, AN INTERACTIVE BASIC PROGRAM FOR SPECTROCHEMICAL CALCULATIONS 2-1

CHIT, A COST ACCOUNTING PROGRAM FOR POSTIRRADIATION EXAMINATIONS OF FAST BREEDER REACTOR MATERIALS 2-5

SPALLATION CROSS SECTIONS AND THE LAMPF MEDICAL RADIOISOTOPE PROGRAM 5-135

BIOMEDICAL PROGRAM LEADING TO THERAPEUTIC TRIALS OF PION RADIATION THERAPY AT LOS ALAMOS 5-16

XPECT, A MONTE CARLO PROGRAM TO PREDICT THE EXPECTED TIME TO NEXT FAILURE IN CONTROLLED THERMONUCLEAR RESEARCH SYSTEMS 10-156

INTENSE NEUTRON SOURCE FACILITY FOR THE FUSION ENERGY PROGRAM. 10-62

LASL CONTROLLED THERMONUCLEAR RESEARCH PROGRAM, JANUARY - DECEMBER 1974 10-70

LASL REVERSED FIELD PINCH PROGRAM PLAN 10-71

DEVELOPMENT PROGRAM FOR THE HIGH TEMPERATURE NUCLEAR PROCESS HEAT SYSTEM 12-6

PERFORMANCE OF MULTIHUNDRED WATT FUELED SPHERE ASSEMBLIES IN THE SAFETY SEQUENTIAL TEST PROGRAM 17-35

SAFETY CONSIDERATIONS IN THE LASER RESEARCH PROGRAM AT THE LOS ALAMOS SCIENTIFIC LABORATORY 17-51

RICE, A COMPUTER PROGRAM FOR MULTICOMPONENT CHEMICALLY REACTIVE FLOWS AT ALL SPEEDS. 18-41

YOKIFER, A TWO DIMENSIONAL HYDRODYNAMICS AND RADIATION TRANSPORT PROGRAM 18-56

LASER PROGRAM AT LASL, JULY 1 - DECEMBER 31, 1974. 20-80

GENERAL PURPOSE COMPUTER PROGRAM FOR MANIPULATING AND ANALYZING TABULAR DATA. 21-37

NET-2 NETWORK ANALYSIS PROGRAM. 21-51

APPLIED MATHEMATICS RESEARCH AND VISITOR PROGRAM, JULY 1, 1974 - JUNE 30, 1975 21-7

MEDIUM ENERGY PHYSICS PROGRAM, FEBRUARY 1 - APRIL 30, 1975. 22-29

MEDIUM ENERGY PHYSICS PROGRAM, MAY 1 -JULY 31, 1975. 22-30

QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1975. 22-47

QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1974 22-48

RECENT EXPERIMENTAL RESULTS OF THE MESIC CHEMISTRY PROGRAM AT LAMPF 22-50

CLINTON P. ANDERSON MESON PHYSICS FACILITY RADIOISOTOPE PROGRAM 22-8

THERMAL AND OTHER PROPERTIES OF REFRACTORIES TECHNICAL REPORT PROGRAM NO. R56 23-58

RESEARCH PROGRAM ON PLASMA CORE ASSEMBLY 24-19

U.S. THEORETICAL AND COMPUTATIONAL PROGRAM TRANSPORT THEORY 24-21

PHONEX, A COMPUTER PROGRAM TO CALCULATE PHOTONEUTRON SPECTRA 25-159

POLARIZATION PROGRAM AT LASL 25-176

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT PROGRAM STATUS REPORT, JANUARY - APRIL 1975 26-17

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT, PROGRAM STATUS REPORT, SEPTEMBER - DECEMBER 1974. 26-18

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT PROGRAM STATUS REPORT, SEPTEMBER DECEMBER 1972 26-19

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, JANUARY THROUGH MARCH 1975. 28-18

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, APRIL -JUNE 1975 28-19

ANALYTICAL CHEMISTRY PROGRAM FOR THE ANALYSIS OF URANIUM LOADED FUEL ELEMENTS 28-2

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, JULY -SEPTEMBER 1975. 28-20

LASL ADVANCED PLUTONIUM LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL PROGRAM PUBLICATIONS. 28-21

PINTEMP- A COMPUTER PROGRAM FOR FUEL ELEMENT DESIGN CALCULATIONS 28-25

QUARTERLY REPORT, HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, OCTOBER THROUGH DECEMBER 1974. 28-34

FITPI, MODIFICATIONS TO THE OPTICAL MODEL PROGRAM PIRK FOR PARAMETER SEARCHES AND TOTAL CROSS SECTIONS. 29-3

MONTHLY STATUS REPORT OF LASL ROVER PROGRAM FOR PERIOD ENDING DECEMBER 20, 1962. 30-50

PACER PROGRAM, FY 1974 LASL ACTIVITY, REFERENCES. 30-57

PACER PROGRAM, PHASE 1, THEORETICAL AND LABORATORY STUDIES. 30-58

QUARTERLY PROGRESS REPORT OF LASL ROVER PROGRAM FOR THE PERIOD ENDING NOVEMBER 30, 1972. 30-69

QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC R AND D PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1969, PART 2. 30-71

SPACE ELECTRIC POWER R AND D PROGRAM, QUARTERLY STATUS REPORT FOR THE PERIOD ENDING APRIL 30, 1969. 30-85

STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR FOUR MONTH PERIOD ENDING JULY 20, 1962. 30-86

PROGRAMMED
SCYLLAC SECTOR RESULTS WITH PROGRAMMED L=0 AND L=2 AUXILIARY FIELDS. 10-123

DETONATION OF HIGH EXPLOSIVES IN LAGRANGIAN HYDRODYNAMIC CODES USING THE PROGRAMMED BURN TECHNIQUE. 18-9

PROGRAMMING
PROGRAMMING AND STABILITY OF THE ZT-1 EXPERIMENT. 10-107

PROGRAMS
PURPOSES AND FUNCTIONS OF AIR SAMPLING PROGRAMS. 17-47

LASER APPLICATION OF HEAT PIPE TECHNOLOGY IN ENERGY RELATED PROGRAMS. 20-67

LOS ALAMOS SCIENTIFIC LABORATORY PROGRAMS AND CAPABILITIES. 30-44

PROGRESS
H-DIVISION PROGRESS REPORT 20 MAY 1949 -20 JUNE 1949. 5-70

H-DIVISION PROGRESS REPORT, 20 JULY 1949 - 20 AUGUST 1949. 5-71

H-DIVISION PROGRESS REPORT, 20 JUNE 1949 - 20 JULY 1949. 5-72

PROGRESS REPORT, USERDA-DATDC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JULY 1 THROUGH SEPTEMBER 30, 1974. 8-38

PROGRESS OF THE LASL DRY HOT ROCK GEOTHERMAL ENERGY PROJECT. 11-42

PROGRESS REPORT. RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES FOR THE PERIOD JULY 1 TO SEPTEMBER 30, 1974. 12-16

PROGRESS REPORT. ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES. JULY 1 THROUGH SEPTEMBER 30, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-45

PROGRESS REPORT. RESPIRATOR STUDIES FOR THE AEC DIRECTORATE OF REGULATORY STANDARDS. JANUARY 1 THROUGH JUNE 30, 1974. 17-46

PROGRESS REPORT. RESEARCH ON CARBON -ALUMINUM COMPOSITES AUGUST 1 DECEMBER 31, 1974. 22-43

PROGRESS REPORT. RESEARCH ON CARBON -ALUMINUM COMPOSITES. SEPTEMBER 1, 1973-JANUARY 31, 1974 23-47

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT. QUARTERLY PROGRESS REPORT. OCTOBER 1 THROUGH DECEMBER 31, 1974. 25-13

P DIVISION PROGRESS REPORT. 20 JUNE 1948 - 20 JULY 1948. 30-56

QUARTERLY PROGRESS REPORT OF LASL ROVER PROGRAM FOR THE PERIOD ENDING NOVEMBER 30, 1972. 30-69

PROGRESSION
COMPARATIVE EFFECTS OF THREE NITROSUREA DERIVATIVES ON MAMMALIAN CELL CYCLE PROGRESSION. 5-42

PROJECT
LOS ALAMOS PROJECT HANDBOOK: CHEMISTRY OF PLUTONIUM. 7-12

PROGRESS REPORT. USERDA-DAT DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. JULY 1 THROUGH SEPTEMBER 30, 1974. 8-38

SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL. APRIL 1 THROUGH SEPTEMBER 30, 1974. 8-46

SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL. JANUARY 1 - MARCH 31, 1975. 8-47

SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL. OCTOBER 1 - DECEMBER 31, 1974. 8-48

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. APRIL 1 - JUNE 30, 1975. 8-58

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. JANUARY 1 - MARCH 31, 1975. 8-59

USERDA DIVISION OF ELECTRIC POWER TRANSMISSION AND DISTRIBUTION DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. OCTOBER 1 THROUGH DECEMBER 31, 1974. 8-60

PROGRESS OF THE LASL DRY HOT ROCK GEOTHERMAL ENERGY PROJECT. 11-42

AEROSOL RESEARCH AND DEVELOPMENT RELATED TO HEALTH HAZARD ANALYSIS. LASL PROJECT R-038, APRIL 1 THROUGH JUNE 30, 1972. 17-1

DEVELOPMENT OF AIR SAMPLING TECHNIQUES. LASL PROJECT R-059, NIOSH-IA-74-10, APRIL 1 - SEPTEMBER 30, 1974. 17-13

EVALUATION OF METHODS FOR THE DETERMINATION OF MERCURY. LASL PROJECT R-060 QUARTERLY REPORT, APRIL 1 THROUGH JUNE 30, 1972. 17-27

PROJECTILE
PROJECTILE VELOCITY MEASUREMENTS AND QUARTZ AND MANGANIN GAUGE PRESSURE DETERMINATIONS IN GAS GUN EXPERIMENTS. 15-22

PROJECTIVE
STRUCTURAL PROPERTIES OF THE CANONICAL U(3) RACAH FUNCTIONS AND THE U(3):U(2) PROJECTIVE FUNCTIONS. 21-76

PROJECTS
GEOTHERMAL ENERGY PROJECTS AT LASL. 11-20

WASTE MANAGEMENT AND SAFETY CONSIDERATIONS FOR FUTURE LASL D+D (DECONTAMINATION AND DECOMMISSIONING) PROJECTS. 17-62

PROLONGED
PROLONGED EARTHWARD FLOW OF MAGNETOTAIL PLASMA ASSOCIATED WITH STEADY SOUTHWARD IMF. 1-20

PROMPT
ABSOLUTE CROSS SECTIONS FOR PRODUCTION OF PROMPT NUCLEAR GAMMA RAYS BY FAST PIONS. 25-7

PROPAGATING
LINEAR THEORY OF A COLD RELATIVISTIC BEAM PROPAGATING ALONG AN EXTERNAL MAGNETIC FIELD. 20-85

PROPAGATION
RAMSES. A TWO DIMENSIONAL, PIC TYPE, LASER PULSE PROPAGATION CODE. 20-128

ANOMALOUS DISPERSION EFFECTS ON PULSE PROPAGATION IN HIGH PRESSURE CARBON DIOXIDE AMPLIFIERS. 20-8

PHOTON PROPAGATION IN NUCLEAR MATTER AND THE CORRECTION TO THE THEORETICAL NUCLEAR CHARGE DENSITY 25-164

PROPELLANT
SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE II. SOLID PROPELLANT FIRE. 17-52

PROPER
PROPER CALCULATION OF THE FRACTIONAL ORDER NUMBER AT THE CENTER OF A FABRY-PEROT INTERFEROMETER FRINGE SYSTEM 19-16

PROPERTIES
ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF DICHLORODIOXOMANGANESE(VI). 4-18

ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF MANGANESE(V) OXYTRICHLORIDE. 4-19

ENTROPY CORRELATION FOR THE 4F AND 5F METALS: RELATION OF ELECTRONIC PROPERTIES TO METALLIC RADII, MAGNETIC TRANSFORMATIONS AND THERMODYNAMICS OF VAPORIZATION. 4-21

MELTING PROPERTIES AND SOUND VELOCITY OF NITROGEN TO 21 KILOBARS 4-38

MELTING PROPERTIES AND ULTRASONIC VELOCITY OF NITROGEN TO 20 KBAR. 4-39

STATISTICAL THERMODYNAMIC PROPERTIES OF HEXAFLUORIDE MOLECULES. 4-64

KINETIC PROPERTIES OF AN ENZYME HIGHLY ENRICHED IN CARBON -13. 5-86

THERMODYNAMIC PROPERTIES OF THE BINARY LAVES PHASE COMPOUNDS OF PLUTONIUM WITH THE GROUP VIIIA METALS. 7-23

PROPERTIES OF BONE AT LOW TEMPERATURE AND ITS POTENTIAL AS CRYOSTAT SUPPORT MATERIAL. 8-39

THERMODYNAMIC PROPERTIES OF FLUIDS BELOW 20 DEGREES KELVIN. 8-55

VERY LOW TEMPERATURE PROPERTIES OF LIQUID HELIUM -3. 8-61

ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 1. PHASE BOUNDARY, THERMODYNAMICS AND LATTICE PARAMETER. 9-1

ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 2. SUPERCONDUCTING TRANSITION TEMPERATURE. 9-2

ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY. 10-1

POST-IMPLOSION ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY. 10-104

POST-IMPLOSION ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY. 10-105

INFLUENCE OF SELF FIELDS ON THE VLASOV EQUILIBRIUM AND STABILITY PROPERTIES OF RELATIVISTIC ELECTRON BEAM - PLASMA SYSTEMS. 10-59

PROPERTIES OF X-0280 AND X-0281. 15-23

DYNAMIC ELASTIC - PLASTIC PROPERTIES OF SINGLE CRYSTAL PETN. 15-6

STRUCTURAL PROPERTIES OF THE CANONICAL U(3) RACAH FUNCTIONS AND THE U(3):U(2) PROJECTIVE FUNCTIONS. 21-76

EFFECT OF STRAIN AGING ON THE DYNAMIC ELASTIC - PLASTIC PROPERTIES OF IRON. 23-13

EFFECT OF STRAIN RATE ON THE TENSILE PROPERTIES OF ALPHA AND DELTA STABILIZED PLUTONIUM. 23-14

LOW TEMPERATURE THERMAL AND ELECTRICAL PROPERTIES OF CHEMICAL VAPOR DEPOSITED NIOBIUM(3)GERMANIUM. 23-34

MECHANICAL PROPERTIES OF PLUTONIUM -238 DIOXIDE. 23-38

RELATION OF FABRICATION PARAMETERS TO RTG FUEL PROPERTIES. 23-48

THERMAL AND OTHER PROPERTIES OF REFRACTORIES. TECHNICAL REPORT PROGRAM NO. R056. 23-58

THERMODYNAMIC PROPERTIES OF PLUTONIUM HEXAFLUORIDE. A PRELIMINARY REPORT. 23-59

USE OF INTERMEDIATE HEAT TREATMENTS FOR THE RESTORATION OF THE NOTCH RUPTURE PROPERTIES OF INCONEL 718. 23-61

NEUTRON PROPERTIES OF TAMPER MATERIALS. 2. 25-133

ION PRODUCTION FROM A CLASSICAL SOURCE: TRANSPORT AND HYDRODYNAMICAL PROPERTIES. 25-171

STATIONARY NON EQUILIBRIUM PROPERTIES OF A QUANTUM MECHANICAL LATTICE WITH SELF CONSISTENT RESERVOIRS. 27-16

STATIONARY NONEQUILIBRIUM PROPERTIES OF A QUANTUM MECHANICAL LATTICE WITH SELF CONSISTENT RESERVOIRS. 27-17

LATTICE DYNAMICS AND STRUCTURAL PROPERTIES OF SOLID NITROGEN. 29-4

SOLID STATE PROPERTIES OF FLUORIDE CONTAINING COMPOUNDS OF 5F ELEMENTS 29-5

PROPERTY
ANOMALOUS THERMAL PROPERTY BEHAVIOUR OF URANIUM AT LOW TEMPERATURES 8-4

CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY, JULY - DECEMBER 1974 17-6

EQUAL AREA PROPERTY OF NARROW RESONANCES INDUCED IN COUPLED DOPPLER BROADENED SYSTEMS BY INTENSE LASER RADIATION. 20-40

PROPORTION
EFFICIENCY AND POSITION RESOLUTION OF TWO DIMENSIONAL POSITION SENSITIVE MULTIWIRE PROPORTION COUNTERS. 22-12

PROPORTIONAL
DELAY LINE READOUT OF ANODE PLANES IN PROPORTIONAL CHAMBERS. 19-3

PROPOSAL
PROPOSAL REGARDING THE ELECTRONIC STRUCTURE OF ALPHA - CERIUM. 4-51

PROPOSAL FOR THE CONSTRUCTION OF THE STAGED SCYLLAC PROTOTYPE. 10-108

PROPOSAL FOR ANALYSIS OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) CORE RESPONSE TO SEISMIC INPUT. 28-31

PROPOSAL TO DESIGNATE CERTAIN LAND AREAS OF THE LOS ALAMOS SCIENTIFIC LABORATORY AS A NATIONAL ENVIRONMENTAL RESEARCH PARK. 30-66

PROPOSED
PROPOSED METS (MAGNETIC ENERGY TRANSFER AND STORAGE) - FTR (FUSION TEST REACTOR) COUPLED SUPERCONDUCTING PROTOTYPE SYSTEM 8-40

PROPOSED FEDERAL HELIUM CONSERVATION POLICY AS RELATED TO THE HELIUM DEMANDS OF ENERGY RELATED NEW TECHNOLOGIES. 30-67

PROPRIETARY
PROPRIETARY, STANDARD, AND GOVERNMENT SUPPORTED NUCLEAR DATA BASES. 25-180

PROPULSION
NEUTRON MONTE CARLO CALCULATION FOR A 1000 MW PROPULSION REACTOR. 28-24

GENERAL CHARACTERISTICS OF PULSED PROPULSION SPACECRAFT. 30-29

NUCLEAR PROPULSION TECHNOLOGY TRANSFER TO ENERGY SYSTEMS. 30-51

PROCEEDINGS OF AN ADVANCED NUCLEAR PROPULSION SYMPOSIUM. 30-65

PROSPECT
PROSPECT FOR GEOTHERMAL POWER. 11-43

PROSPECTIVE
PROSPECTIVE CAPABILITIES IN SOFTWARE. 21-67

PROSPECTS
PROSPECTS FOR CONVERTING THORIUM -232 TO URANIUM -233 IN A LINEAR THETA PINCH HYBRID REACTOR (LTPHR). 10-109

PROTECTED
COMPUTER SIMULATION OF A DEUTERIUM -TRITIUM PELLET MICROEXPLOSION IN A MAGNETICALLY PROTECTED LASER FUSION REACTOR. 20-20

LASER - FUSION ELECTRIC GENERATING STATIONS BASED ON THE MAGNETICALLY PROTECTED REACTOR CAVITY. 20-65

PROTECTION
RESPIRATORY PROTECTION: OSHA AND THE SMALL BUSINESSMAN. 17-50

IMPROVEMENT IN OXIDATION RESISTANCE OF THE LEADING EDGE THERMAL PROTECTION FOR A SPACE SHUTTLE. 23-30

PROTECTIVE
PERSONAL PROTECTIVE DEVICES. 17-40

PROTEIN
PHOTO INDUCED DNA PROTEIN ADDUCTS IN CHINESE HAMSTER OVARY CELL CHROMATIN. 5-210

PREPARATIVE METHODS FOR ANALYSIS OF DNA, PROTEIN AND NUCLEAR - TO - CYTOPLASMIC RATIOS IN NORMAL AND TUMOR CELL POPULATIONS. 5-118

APPEARANCE OF CYTOPLASMIC INFORMOSOMES IN CULTURED CHINESE HAMSTER CELLS IN THE ABSENCE OF PROTEIN SYNTHESIS. 5-4

EVALUATION OF SIX FLUORESCENT PROTEIN STAINS FOR USE IN FLOW MICROFLUOROMETRY. 5-60

EXISTENCE OF A RESIDUAL NUCLEAR PROTEIN MATRIX IN CULTURED CHINESE HAMSTER CELLS. 5-64

PROTON
PROTON TEMPERATURE ANISOTROPY INSTABILITIES. 1-21

ISOLATION OF STRONTIUM -82 FROM 200-600 MEV PROTON IRRADIATED MOLYBDENUM TARGETS FOR BIOMEDICAL APPLICATIONS. 5-65

STRUCTURE AND MOTION OF B3H8- ANIONS IN SOLIDS: A BORON AND PROTON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY. 14-13

DEVELOPMENT OF AN ALPHA PARTICLE AND PROTON DETECTOR FOR LASER - FUSION STUDIES. 20-23

LAMPF PROTON LINAC PERFORMANCE. 22-25

MEASUREMENT OF THE 0 DEGREE NEUTRON SPECTRA FROM 647 AND 800 MEV PROTON BOMBARDMENT OF LIGHT NUCLEI. 22-27

MEASUREMENT OF THE NEUTRON FLUX GENERATED BY THE LAMPF 800 MEV PROTON BEAM STOP. 22-28

OFF-SHELL EFFECTS IN THE REACTION PROTON + PROTON TO NEUTRON + PROTON + POSITIVE PION. 22-35

BEAM EMITTANCE GROWTH IN A PROTON STORAGE RING EMPLOYING CHARGE EXCHANGE INJECTION. 22-4

BEAM INTENSITY MONITORING FOR THE LAMPF 800 MEV PROTON BEAM STOP 22-28

OFF-SHELL EFFECTS IN THE REACTION PROTON + PROTON TO NEUTRON + PROTON + POSITIVE PION. 22-35

BEAM INTENSITY MONITORING FOR THE EXTERNAL PROTON BEAM AT LAMPF. 22-5

TESTING AND CALIBRATION OF A FARADAY CUP AND OTHER INTENSITY MONITORS FOR THE EXTERNAL PROTON BEAM AT LAMPF. 22-52

HIGH ENERGY PROTON SIMULATION OF 14 MEV NEUTRON DAMAGE IN ALUMINUM OXIDE. 23-28

ANGULAR DISTRIBUTION OF POLARIZATION TRANSFER IN HYDROGEN -2(DEUTERON,PROTON) HYDROGEN -3. 25-10

LIFETIMES OF NEGATIVE PARITY STATES OF SCANDIUM -49 BY THE CALCIUM -48(PROTON, GAMMA)SCANDIUM -49 REACTION. 25-102

MEASUREMENT OF THE CROSS SECTION FOR THE REACTION PI(-) + PROTON TO PI(+) + NEUTRON AT 350 AND 300 MEV. 25-113

MODEL OF THE PROTON PLUS PROTON GOES TO PROTON PLUS NEUTRON PLUS POSITIVE PION REACTION AT 766 MEV. 25-119

NEUTRON - PROTON BREMSSTRAHLUNG. 25-128

NEUTRON PRODUCTION AT 0 DEGREES FROM THE REACTION PROTON - PROTON TO NEUTRON -PROTON - PI(+) AT THE MEDIUM ENERGIES. 25-132

NEUTRON PRODUCTION AT 0 DEGREES FROM THE REACTION PROTON - PROTON TO NEUTRON -PROTON - PI(+) AT THE MEDIUM ENERGIES. 25-132

NEUTRON SPECTRA FROM PROTON BOMBARDMENT OF DEUTERIUM AT 647 AND 800 MEV. 25-134

NON-EIKONAL APPROACH TO THE SCATTERING OF HADRONS FROM NUCLEI. 2. PROTON AND PION SCATTERING FROM DEUTERIUM, HELIUM -3 AND HELIUM -4. 25-139

OBSERVATION OF THE RECOIL PROTON IN QUASIELASTIC PION SCATTERING 25-148

PARITY NONCONSERVATION IN PROTON - PROTON AND PROTON - NUCLEUS SCATTERING. 25-153

APPROXIMATION OF MULTI-CENTRE INTEGRALS ARISING IN PROTON - HYDROGEN CHARGE EXCHANGE CALCULATIONS. 25-17

PROTON - NUCLEUS SCATTERING AT INTERMEDIATE ENERGIES. 25-181

PROTON - PROTON ANALYZING POWER MEASUREMENTS AT 16 MEV. 25-182

PROTON - PROTON ASYMMETRY MEASUREMENTS AT 16.000 MEV. 25-183

PROTON - PROTON SCATTERING, THE CHOU-YANG MODEL, AND PROTON FORM FACTORS. 25-184

PROTON PICKUP FROM STRONTIUM -86 AND THE RUBIDIUM -85 LEVEL STRUCTURE. 25-185

STUDY OF THE (TRITON,PROTON) REACTIONS ON HELIUM -4, LITHIUM -6, LITHIUM -7 AND BERYLLIUM -9. 25-211

SYSTEMATICS OF PION AND PROTON INTERACTIONS WITH NICKEL NUCLIDES. 25-214

TESTS OF PARITY CONSERVATION IN PROTON -PROTON AND PROTON - NUCLEUS SCATTERING 25-218

YTTRIUM -89 (TRITON,PROTON) YTTRIUM -91 REACTION AT E(T) = 20 MEV 25-231

ZERO PLUS STATES NEAR THE N=20 NEUTRON SHELL FROM ARGON(TRITON,PROTON) REACTIONS 25-232

COMPARISON OF (TRITON,HELIUM -3), (HELIUM -3,TRITON) AND (HELIUM -3,PROTON) REACTIONS OF F-P SHELL NUCLEI 25-32

(TRITON,PROTON) REACTION ON ARGON -36, 38, 40. 25-4

ENERGY AND ANGULAR DISTRIBUTION OF NEUTRONS PRODUCED BY 800 MEV PROTON -PROTON COLLISIONS. 25-64

EXPERIMENTAL STUDY OF THE PI+ + DEUTERON TO PROTON + PROTON REACTION AT PION ENERGIES OF 40, 50, AND 60 MEV 25-77

HELIUM -3(GAMMA NEUTRON) 2 PROTON AND HELIUM -3(GAMMA,PROTON) NP REACTIONS 25-92

INELASTIC PROTON SCATTERING AS A TEST OF SURFACE DELTA WAVE FUNCTIONS 25-98

PROTONS
GRADIENTS OF SOLAR PROTONS IN THE HIGH LATITUDE MAGNETOTAIL AND THE CONVECTION ELECTRIC FIELD 1-11

MEASUREMENTS OF ALPHA PARTICLES AND PROTONS, PRODUCED FROM LASER FUSION 20-89

FRAGMENT PRODUCTION IN THE INTERACTION OF 800 MEV PROTONS WITH URANIUM. 22-16

CALCULATED NEUTRON SPECTRUM FROM 800 MEV PROTONS INCIDENT ON A COPPER BEAM STOP 22-6

PARITY VIOLATING ASYMMETRY IN NEUTRON PHOTO CAPTURE BY PROTONS AND THE ISOSPIN STRUCTURE OF THE STRANGENESS CONSERVING NONLEPTONIC WEAK INTERACTIONS 25-155

RADIOCHEMICAL STUDIES OF SOME LOW AND MEDIUM ENERGY NUCLEAR REACTIONS PRODUCED BY ACCELERATED TRITONS, DEUTERONS, AND PROTONS 25-194

SPALLATION OF COPPER BY 180 MEV PIONS AND 349 MEV PROTONS. 25-207

SPECTRUM AND SHIELDING MEASUREMENTS AND CALCULATIONS OF NEUTRONS PRODUCED BY 800 MEV PROTONS 25-208

CHARACTERISTICS OF LOW Z FRAGMENTS PRODUCED IN THE INTERACTION OF 800 MEV PROTONS WITH URANIUM. 25-25

CROSS SECTIONS FOR DEUTERON (PI+,2PROTON) WITH DISTORTED PROTONS. 25-42

ELASTIC SCATTERING OF LOW ENERGY PIONS ON PROTONS. 25-58

HELIUM -3 PLUS GAMMA TO 2 PROTONS PLUS NEUTRON. 25-91

PROTOTYPE
PROPOSED METS (MAGNETIC ENERGY TRANSFER AND STORAGE) - FTR (FUSION TEST REACTOR) COUPLED SUPERCONDUCTING PROTOTYPE SYSTEM. 8-40

PROPOSAL FOR THE CONSTRUCTION OF THE STAGED SCYLLAC PROTOTYPE. 10-108

INVESTIGATION OF PERFORMANCE OF US ARMY FILTER CANISTERS AND RESPIRATORS EQUIPPED WITH PROTOTYPE FACEPIECES 17-29

PROTOTYPE HIGH CURRENT, HIGH DUTY FACTOR NEGATIVE HYDROGEN ION SOURCE FOR LAMPF 22-44

PROXIMITY
INVESTIGATION OF MICRO-CHANNEL PLATES AS PARALLEL BORE ELECTRON COLLIMATORS FOR USE IN A PROXIMITY FOCUSED ULTRA FAST STREAK TUBE 19-12

PROXIMITY FOCUSED ULTRA-FAST STREAK TUBE. 20-121

PSEC
PHOTOSYNTHETIC STUDIES WITH A 10 PSEC RESOLUTION STREAK CAMERA. 5-111

PSR2021
AGE OF HB21 AND PSR2021+51 3-2

PUBLICATIONS
LASL ADVANCED PLUTONIUM LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL PROGRAM PUBLICATIONS 28-21

PUBLICATIONS OF LASL RESEARCH 1974. 30-68

PULSATILE
NUMERICAL STUDY OF PULSATILE FLOW THROUGH CONSTRICTED ARTERIES 5-107

PULSATION
RADIAL STELLAR STABILITY AND PULSATION. 3-36

APPLICATIONS OF LINEAR PULSATION THEORY TO THE CEPHEID MASS PROBLEM AND THE DOUBLE MODE CEPHEIDS. 3-4

CEPHEID PULSATION THEORY AND MULTIPERIODIC CEPHEID VARIABLES 3-8

PULSE
USE OF HIGH ENERGY, SHORT PULSE EXPLOSIVE GENERATORS TO DRIVE ELECTROMAGNETIC IMPLOSIONS. 15-29

PULSE COMPRESSION FOR MORE EFFICIENT OPERATION OF SOLID STATE LASER AMPLIFIER CHAINS. 2 20-122

RAMSES, A TWO DIMENSIONAL, PIC TYPE, LASER PULSE PROPAGATION CODE. 20-128

GAIN RECOVERY AFTER SATURATION IN SHORT PULSE CARBON DIOXIDE AMPLIFIERS. 20-46

LASER FUSION EXPERIMENTS AT LOS ALAMOS. PART 2: THE LASL CARBON DIOXIDE SHORT PULSE OSCILLATOR - AMPLIFIER SYSTEM 20-70

LASER INITIATED KRYTRON SWITCHED BLUMLEIN STRUCTURE FOR PULSE SELECTION. 20-77

ANOMALOUS DISPERSION EFFECTS ON PULSE PROPAGATION IN HIGH PRESSURE CARBON DIOXIDE AMPLIFIERS. 20-8

LASL 2.5 KILOJOULE CARBON DIOXIDE SHORT PULSE LASER SYSTEM. 20-84

MEASUREMENT OF BEAM QUALITY FROM SHORT PULSE CARBON DIOXIDE LASERS. 20-88

MULTILINE SHORT PULSE AMPLIFICATION AND COMPRESSION IN HIGH GAIN CARBON DIOXIDE LASER AMPLIFIER. 20-99

PULSED
QUANTITATIVE PULSED EDDY CURRENT ANALYSIS. 2-23

ELECTRICAL BREAKDOWN AND TRACKING CHARACTERISTICS OF PULSED HIGH VOLTAGES IN CRYOGENIC HELIUM AND NITROGEN. 8-15

SUPERCONDUCTING MAGNETIC AND INERTIAL ENERGY PULSED POWER SYSTEMS. 8-45

HEAT TRANSFER MODEL FOR COMPOSITE FIRST WALL MATERIALS IN A PULSED HIGH BETA CONTROLLED THERMONUCLEAR REACTOR (CTR). 10-46

PULSED HYDROGEN FLUORIDE LASER HOLOGRAPHIC INTERFEROMETRY 20-123

PULSED HYDROGEN FLUORIDE LASER OSCILLATOR AMPLIFIER EXPERIMENTS. 20-124

PULSED INFRARED DIFFERENCE FREQUENCY GENERATION IN CADMIUM - GERMANIUM -ARSENIC(2). 20-125

ROTATIONAL TEMPERATURE IN A HIGH PRESSURE PULSED CARBON DIOXIDE LASER. 20-134

TIME DEPENDENCE OF ROTATIONAL TEMPERATURE IN A HIGH PRESSURE PULSED CARBON DIOXIDE LASER 20-155

MIXTURE STABILITY IN HIGH POWER PULSED HYDROGEN - FLUORINE CHEMICAL LASERS. 20-95

MODELOCKED, MULTILINE PULSED CARBON DIOXIDE OSCILLATOR. 20-96

PULSED BEAM CHOPPER FOR LAMPF. 22-45

GENERAL CHARACTERISTICS OF PULSED PROPULSION SPACECRAFT. 30-29

PULSES
NUMERICAL STUDIES OF THE INTERPLAY BETWEEN SELF PHASE MODULATION AND DISPERSION FOR INTENSE PLANE WAVE LASER PULSES. 20-105

STREAK CAMERA STUDIES USING PICOSECOND PULSES OF PHOTOSYNTHESIS AND PLASTIC SCINTILLATORS. 20-143

DAMAGE THRESHOLDS IN ZINC SELENIDE, A/R COATED SODIUM CHLORIDE AND MICROMACHINED MIRRORS BY 10.6 MICRON MULTIJOULE, NANOSECOND PULSES. 20-21

DIFFRACTION EFFECTS AND OPTICAL QUALITY IN THE MULTISTAGE AMPLIFICATION OF NANOSECOND CARBON DIOXIDE PULSES. 20-24

DISPERSIVE TEMPORAL COMPRESSION OF THE ENERGY IN LASER PULSES: A REVIEW. 20-28

AMPLIFICATION OF MULTILINE/MULTIBAND CARBON DIOXIDE LASER PULSES. 20-4

GENERATION OF LASER PULSES FOR OPTIMUM ABLATIVE COMPRESSIONS. 20-47

PUMPING
COHERENT MULTIPLE PHOTON PUMPING OF SIMPLE QUANTUM MECHANICAL SYSTEMS. 20-16

DIRECT NUCLEAR PUMPING OF A HELIUM -XENON LASER. 20-26

PUOS2
CRYSTAL DATA FOR TWO POLYMORPHIC FORMS OF PLUTONIUM DIOXIDE (PUOS2). 9-7

PURE
ANALYTIC TRANSPORT THEORY SOLUTIONS FOR STEADY SOURCES IN PURE ABSORBERS 24-1

PURIFICATION
SPECIAL REPORT PRESENTED AT JULY MEETING WITH C. A. THOMAS ON FINAL PURIFICATION AND METALLURGY OF 49. 23-53

SPECIAL REPORT PRESENTED AT MAY MEETING WITH C. A. THOMAS ON FINAL PURIFICATION AND METALLURGY OF 49. 23-54

BUILDING D PLUTONIUM PURIFICATION: EQUIPMENT DRAWINGS. 30-6

PUSHER
TURBULENT PUSHER BEHAVIOR 20-157

PUZZLE
(PI,PI-N) PUZZLE: EFFECTS OF PION CHARGE EXCHANGE. 25-2

EFFECTS OF NUCLEON CHARGE EXCHANGE ON THE PION KNOCKOUT PUZZLE. 25-54

PYRIDINE
DI-MU-(PYRIDINE OXIDE)- BIS(DICHLORO (DIMETHYL

PYRIDINE
DI-MU-(PYRIDINE OXIDE)- BIS(DICHLORO (DIMETHYL SULFOXIDE)COPPER(II) 7-4

Q
ON THE ROOTS OF X(M)+-1 IN THE P-ADIC FIELD Q(P). 21-61

Q-BETA
ERBIUM -158 TO HOLMIUM -158 DECAY SCHEME AND Q-BETA VALUE. 25-68

Q-BRANCH
HIGH RESOLUTION Q-BRANCH SPECTRUM FOR CARBON DIOXIDE AT 618 MILLIMETERS. 20-49

QUADRAPOLE
QUADRAPOLE MAGNET MEASUREMENT. 22-46

QUADRUPOLE
FAST NUCLEON CAPTURE AS A METHOD FOR INVESTIGATION OF GIANT QUADRUPOLE RESONANCES. 25-78

IMPORTANCE OF THE QUADRUPOLE PAIRING FIELD IN THE J(PI) = 0(+) VIBRATIONS OF SHAPE DEFORMED NUCLEI 25-97

QUALITY
WATER QUALITY IN VICINITY OF FENTON HILL SITE, 1974. 11-62

ELEMENTS OF QUALITY ASSURANCE IN ENVIRONMENTAL SURVEILLANCE. 17-17

OPTICAL QUALITY STUDY OF THE LASL CARBON DIOXIDE LASER AMPLIFIER SYSTEM. 20-111

QUALITY SELECTION OF LASER - FUSION TARGET MICROBALLOONS. 20-126

DIFFRACTION EFFECTS AND OPTICAL QUALITY IN THE MULTISTAGE AMPLIFICATION OF NANOSECOND CARBON DIOXIDE PULSES. 20-24

EFFECT OF REFRACTIVE INDEX NONLINEARITY ON THE OPTICAL QUALITY OF HIGH POWER LASER BEAMS. 20-29

MEASUREMENT OF BEAM QUALITY FROM SHORT PULSE CARBON DIOXIDE LASERS. 20-88

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS. JULY 1 - SEPTEMBER 30, 1975. 28-11

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS, APRIL - JUNE 30, 1975, AND FY 1975. 28-12

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, JANUARY 1 THROUGH MARCH 31, 1975. 28-32

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-33

QUANTITATIVE
QUANTITATIVE DETERMINATION OF FISSION PRODUCTS IN IRRADIATED FUEL PINS USING NONDESTRUCTIVE GAMMA SCANNING. 2-21

QUANTITATIVE DETERMINATION OF FISSION PRODUCTS IN IRRADIATED FUEL PINS USING NONDESTRUCTIVE GAMMA SCANNING. 2-22

QUANTITATIVE PULSED EDDY CURRENT ANALYSIS. 2-23

QUANTITATIVE MEASUREMENT OF SV40 T -ANTIGEN PRODUCTION. 5-120

QUANTITATIVE SEPARATION OF AMERICIUM AND PLUTONIUM USING CUPFERRON. 7-14

APPLICATION OF SENSITIVITY ANALYSIS TO A QUANTITATIVE ASSESSMENT OF NEUTRON CROSS SECTION REQUIREMENTS FOR THE TFTR (TOKAMAK FUSION TEST REACTOR): AN INTERIM REPORT. 10-2

QUANTITATIVE ANALYSIS OF CARBON - CARBON COUPLING IN THE CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF MOLECULES BIOSYNTHESIZED FROM CARBON -13 ENRICHED PRECURSORS. 14-10

QUANTITATIVE ASSESSMENT OF CTR CROSS SECTION NEEDS. 25-187

QUANTITATIVE BASIS FOR CROSS SECTION REQUIREMENTS FOR A FUSION TEST REACTOR. 25-188

QUANTUM
QUANTUM LIMITED NEAR INFRARED VIDICON CAMERA SYSTEM. 19-17

COHERENT MULTIPLE PHOTON PUMPING OF SIMPLE QUANTUM MECHANICAL SYSTEMS. 20-16

SELF INTERACTING, BOSON, QUANTUM, FIELD THEORY AND THE THERMODYNAMIC LIMIT IN D DIMENSIONS. 21-72

PLANAR CHANNELING THEORY: QUANTUM AND CLASSICAL. 27-13

STATIONARY NON-EQUILIBRIUM PROPERTIES OF A QUANTUM MECHANICAL LATTICE WITH SELF CONSISTENT RESERVOIRS. 27-16

STATIONARY NONEQUILIBRIUM PROPERTIES OF A QUANTUM MECHANICAL LATTICE WITH SELF CONSISTENT RESERVOIRS. 27-17

QUARK
GAUGE THEORY AT FINITE TEMPERATURE OF SU(3) SYMMETRY BREAKING AND QUARK MASSES. 25-87

QUARK-PARTON
MAYBE THE QUARK-PARTON MODEL CAN SURVIVE ELECTRON POSITRON ANNIHILATION. 25-110

QUARKS
SCALAR BINDING OF QUARKS. 25-199

QUARTERLY
E DIVISION QUARTERLY STATUS REPORT, JUNE 1 - AUGUST 31, 1975. 13-4

EVALUATION OF METHODS FOR THE DETERMINATION OF MERCURY. LASL PROJECT R-060 QUARTERLY REPORT, APRIL 1 THROUGH JUNE 30, 1972. 17-27

QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1975. 22-47

QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1974. 22-48

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT. QUARTERLY PROGRESS REPORT, OCTOBER 1 THROUGH DECEMBER 31, 1974. 25-13

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, JANUARY 1 THROUGH MARCH 31, 1975. 28-32

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-33

QUARTERLY REPORT. HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, OCTOBER THROUGH DECEMBER 1974. 28-34

QUARTERLY REPORT. TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-35

E DIVISION QUARTERLY STATUS REPORT, MARCH 1 - MAY 31, 1975. 30-19

QUARTERLY PROGRESS REPORT OF LASL ROVER PROGRAM FOR THE PERIOD ENDING NOVEMBER 30, 1972. 30-69

QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENDING JULY 31, 1967. 30-70

QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC R AND D PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1969. PART 2. 30-71

SPACE ELECTRIC POWER R AND D PROGRAM, QUARTERLY STATUS REPORT FOR THE PERIOD ENDING APRIL 30, 1969. 30-85

QUARTZ
PROJECTILE VELOCITY MEASUREMENTS AND QUARTZ AND MANGANIN GAUGE PRESSURE DETERMINATIONS IN GAS GUN EXPERIMENTS. 15-22

QUASARS
LOCAL QUASARS AND RADIO GALAXIES. 3-25

RADIO GALAXIES AND LOCAL QUASARS. 3-37

ARE QUASARS LOCAL 3-5

QUASI ELASTIC
QUASI-ELASTIC PION SCATTERING IN THE (3,3) RESONANCE REGION. 25-189

QUASICLASSICAL
QUASICLASSICAL TRAJECTORY STUDY OF THE HYDROGEN(2) + FLUORINE(2) REACTIONS 6-14

QUASICLASSICAL TRAJECTORY STUDY OF THE MOLECULAR BEAM KINETICS OF THE DEUTERIUM ATOM - HYDROGEN HALIDE EXCHANGE REACTION. 6-15

COMPARISON OF THE COMBINED PHASE SPACE TRAJECTORY AND QUASICLASSICAL TRAJECTORY METHODS IN THE STUDY OF REACTION DYANMICS: HYDROGEN + IODINE(2) AND HYDROGEN + BROMINE(2). 6-4

QUASIELASTIC
OBSERVATION OF THE RECOIL PROTON IN QUASIELASTIC PION SCATTERING 25-148

QUASIFREE
QUASIFREE PION PRODUCTION AS SEEN IN NEUTRON - DEUTERON REACTIONS WITH A FINAL FAST DEUTERON. 25-190

QUIET
L = 6.7 QUIET TIME BARIUM SHAPED CHARGE INJECTION EXPERIMENT CHACHALACA. 1-17

QUOTIENTS
FOURIER TRANSFORM CARBON -13 NUCLEAR MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 1. EQUILIBRIUM QUOTIENTS FROM RELATIVE ABUNDANCES OF SOLUTION SPECIES. 14-7

Q3D
PERFORMANCE OF THE LASL Q3D SPECTROMETER AND HELIX DETECTOR SYSTEM 25-157

Q3D SPECTROMETER WITH A HELIX DETECTOR SYSTEM 25-186

R
CIRCULAR DICHROISM SPECTRA OF POLY D(AC)-D(GT)*, POLY R(AC)-R(GU)*, AND HYBRIDS POLY D(AC)-R(GU)* AND POLY R(AC)-D(GT)* IN THE PRESENCE OF ETHANOL. 5-40

CIRCULAR DICHROISM SPECTRA OF POLY D(AC)-D(GT)*, POLY R(AC)-R(GU)*, AND HYBRIDS POLY D(AC)-R(GU)* AND POLY R(AC)-D(GT)* IN THE PRESENCE OF ETHANOL. 5-40

DAMAGE THRESHOLDS IN ZINC SELENIDE, A/R COATED SODIUM CHLORIDE AND MICROMACHINED MIRRORS BY 10.6 MICRON MULTIJOULE, NANOSECOND PULSES. 20-21

QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC R AND D PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1969. PART 2. 30-71

SPACE ELECTRIC POWER R AND D PROGRAM, QUARTERLY STATUS REPORT FOR THE PERIOD ENDING APRIL 30, 1969. 30-85

R-MATRIX
R-MATRIX THEORY FOR ELECTRON - ATOM AND ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS. 4-52

R-MATRIX THEORY FOR ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS. 2. ELECTRON - HYDROGEN(2) SCATTERING IN THE STATIC EXCHANGE MODEL. 4-53

MODELS BASED ON MULTICHANNEL R MATRIX THEORY FOR EVALUATING LIGHT ELEMENT REACTIONS. 25-120

R-MATRIX ANALYSIS OF THE LIGHT ELEMENT STANDARDS. 25-191

R-Z
ACCURACY OF THE WHITE BOUNDARY CONDITION IN R-Z GEOMETRY 18-1

R-638
AEROSOL RESEARCH AND DEVELOPMENT RELATED TO HEALTH HAZARD ANALYSIS. LASL PROJECT R-638, APRIL 1 THROUGH JUNE 30, 1972. 17-1

R-659
DEVELOPMENT OF AIR SAMPLING TECHNIQUES. LASL PROJECT R-659, NIOSH-IA-74-10, APRIL 1 - SEPTEMBER 30, 1974. 17-13

R-660
EVALUATION OF METHODS FOR THE DETERMINATION OF MERCURY. LASL PROJECT R-660 QUARTERLY REPORT, APRIL 1 THROUGH JUNE 30, 1972. 17-27

RACAH
STRUCTURAL PROPERTIES OF THE CANONICAL U(3) RACAH FUNCTIONS AND THE U(3):U(2) PROJECTIVE FUNCTIONS. 21-76

RADAR
DEBRIS - AIR INTERACTIONS AND THEIR EFFECTS ON RADAR CLUTTER. 18-7

RADARS
ADAPTIVE CONTROL TECHNIQUES FOR ON-AXIS RADARS. 13-1

RADIAL
RADIAL STELLAR STABILITY AND PULSATION. 3-36

RADIAL PLASMA STRUCTURE DURING A THETA PINCH IMPLOSION FLUTE INSTABILITIES. 10-110

RADIATION
ENERGY DENSITY OF THE RELIC RADIATION 1-7

RECOVERY RATE AND RESIDUAL INJURY IN MONKEYS EXPOSED TO LARGE DOSES OF RADIATION BY FRACTIONATION 5-125

BIOMEDICAL PROGRAM LEADING TO THERAPEUTIC TRIALS OF PION RADIATION THERAPY AT LOS ALAMOS. 5-16

INVESTIGATION OF THE TWO COMPONENT RADIATION INJURY CONCEPT USING EQUIVALENT RESIDUAL DOSE FACTORS. 5-83

CONVERSION OF PARA TO ORTHOHYDROGEN IN A GAMMA RAY AND NEUTRON RADIATION FIELD. 8-7

RADIATION EFFECTS ON THE LATTICE CONSTANTS OF SINGLE CRYSTAL ALUMINUM DIOXIDE. 9-19

SYNCHROTRON RADIATION SPECTRUM FOR A RELATIVISTIC PLASMA COLUMN 10-143

USE OF LITHIUM (DEUTERON,NEUTRON) NEUTRONS FOR SIMULATION OF RADIATION EFFECTS IN FUSION REACTORS. 10-154

RADIOACTIVITY, RADIATION DAMAGE, AND REMOTE HANDLING 13-13

IMPROVED, IMPLICIT RADIATION HYDRODYNAMICS 18-19

INVARIANT COMPTON KERNELS FOR RADIATION TRANSPORT. 18-20

NUMERICAL METHODS FOR SOLUTION OF THE INTEGRAL EQUATIONS OF MULTI-DIMENSIONAL RADIATION TRANSPORT. 18-31

YOKIFER: A TWO DIMENSIONAL HYDRODYNAMICS AND RADIATION TRANSPORT PROGRAM. 18-56

X RAY CONTINUUM AND LINE RADIATION FROM PLASMAS PRODUCED BY 10.6 MICROMETER LASER FOCUSED ON FLAT TARGETS. 20-164

EQUAL AREA PROPERTY OF NARROW RESONANCES INDUCED IN COUPLED DOPPLER BROADENED SYSTEMS BY INTENSE LASER RADIATION. 20-40

ISOTOPIC ENRICHMENT BY MULTIPLE ABSORPTION OF CARBON DIOXIDE LASER RADIATION. 20-63

ISOTOPIC ENRICHMENT OF SULFUR HEXAFLUORIDE IN SULFUR -34 BY MULTIPLE ABSORPTION OF CARBON DIOXIDE LASER RADIATION. 20-64

HIGH ENERGY NEUTRON SPECTRA AT THE LAMPF RADIATION EFFECTS FACILITY. 22-18

CHARACTERISTICS OF RADIATION DAMAGE PARAMETERS IN VARIOUS NEUTRON SPECTRA 25-26

EFFECTS OF RADIATION ON LUBRICANTS AND OTHER MATERIALS. A SURVEY OF CLASSIFIED LITERATURE, 1950-55. 30-22

CALORIMETER MEASUREMENT OF THE KIWI-A GAMMA RADIATION. 30-7

RADIATION DOSE TO BE EXPECTED FROM AERIAL PENETRATION OF AN ATOMIC CLOUD. 30-72

RADIATIVE
NON-LINEAR RADIATIVE TRANSFER MODEL OF SW ANDROMADAE. 3-29

RADIATIVE TRANSFER APPROXIMATIONS IN FIREBALL MODELING. 18-38

ANGULAR DISTRIBUTIONS IN THE RADIATIVE CAPTURE OF 14 MEV NEUTRONS. 25-11

PHOTOIONIZATION CROSS SECTIONS AND RADIATIVE RECOMBINATION RATE COEFFICIENTS FOR IRON(XV-XXV). 25-162

PHOTOIONIZATION CROSS SECTIONS AND RADIATIVE RECOMBINATION RATE COEFFICIENTS FOR POSITIVE IONS OF CARBON AND GOLD. 25-163

RADIATIVE CAPTURE GAMMA RAYS FROM THE REACTION LEAD -208 (NEUTRON,GAMMA) LEAD -209 FOR 14 MEV INCIDENT NEUTRONS. 25-192

EXCHANGE EFFECTS FROM WEAK RADIATIVE MESONIC TRANSITIONS IN PARITY VIOLATING NUCLEAR PROCESSES. 25-71

FORE - AFT ANISOTROPY IN THE RADIATIVE CAPTURE OF 14 MEV NEUTRONS. 25-82

RADII
RESPONSE OF THE PLASMA SHEET AT APPROXIMATELY 18 EARTH RADII TO SUDDEN SOUTHWARD TURNINGS OF THE INTERPLANETARY MAGNETIC FIELD. 1-23

OBSERVED CORONAL TEMPERATURES AT 1.37 SOLAR RADII IN THE REGION OF A HELMET STRUCTURE. 3-32

ENTROPY CORRELATION FOR THE 4F AND 5F METALS: RELATION OF ELECTRONIC PROPERTIES TO METALLIC RADII, MAGNETIC TRANSFORMATIONS AND THERMODYNAMICS OF VAPORIZATION. 4-21

MUONIC X RAY MEASUREMENTS OF NUCLEAR CHARGE RADII IN THE MASS 70 REGION. 25-126

RADIO
FAST SOLAR ELECTRONS, INTERPLANETARY PLASMA AND KM WAVE TYPE III RADIO BURSTS OBSERVED FROM THE IMP-6 SPACECRAFT. 1-10

VLF RADIO PHENOMENA FOLLOWING A BARIUM SHAPED CHARGE RELEASE AT L APPROXIMATELY EQUALS 6.5. 1-32

LOCAL QUASARS AND RADIO GALAXIES. 3-25

RADIO GALAXIES AND LOCAL QUASARS. 3-37

SHORT RANGE RADIO TELEMETRY FOR ELECTRONIC IDENTIFICATION USING MODULATED RF BACKSCATTER. 19-18

RADIOACTIVE
RADIOACTIVE WASTE OUTPUT FROM LASER -FUSION GENERATING STATIONS DURING NORMAL OPERATIONS. 20-127

ENVIRONMENTAL EVALUATION OF SOLID RADIOACTIVE WASTE DISPOSAL AREAS. 30-24

RELEVANCE OF NUCLIDE MIGRATION AT OKLO TO THE PROBLEM OF GEOLOGIC STORAGE OF RADIOACTIVE WASTE. 30-78

RADIOACTIVITY
RADIOACTIVITY INDUCED IN A THETA PINCH FUSION REACTOR. 10-111

RADIOACTIVITY, RADIATION DAMAGE, AND REMOTE HANDLING. 13-13

SAMPLING OF SOILS FOR RADIOACTIVITY: PHILOSOPHY, EXPERIENCE, AND RESULTS. 17-55

NUCLEAR DATA FOR CALCULATION OF RADIOACTIVITY EFFECTS. 25-142

RADIOBIOLOGY
MESON RADIOBIOLOGY AND THERAPY. 5-99

RADIOCHEMICAL
RADIOCHEMICAL ANALYTICAL RESULTS OF NAEG (NEVADA APPLIED ECOLOGY GROUP) SAMPLES BY LASL-H7. 17-48

RADIOCHEMICAL INVESTIGATION OF REACTIONS OF ARGON -40 AND KRYPTON -84 IONS WITH URANIUM -238 TARGETS. 25-193

RADIOCHEMICAL STUDIES OF SOME LOW AND MEDIUM ENERGY NUCLEAR REACTIONS PRODUCED BY ACCELERATED TRITONS, DEUTERONS, AND PROTONS. 25-194

RADIOCHEMICAL MEASUREMENTS ON KIWI-A PRIME. SUMMARY REPORT. 30-73

RADIOCHEMICAL MEASUREMENTS ON KIWI-A3. 30-74

RADIOCHEMICAL MEASUREMENTS ON KIWI-TNT. 30-75

RADIOGRAPHS
DIGITAL ENHANCEMENT OF BIOMEDICAL RADIOGRAPHS. 5-55

ANALYSIS OF FUEL BUNDLE RADIOGRAPHS USING MODELING. 28-1

RADIOISOTOPE
SPALLATION CROSS SECTIONS AND THE LAMPF MEDICAL RADIOISOTOPE PROGRAM. 5-135

CLINTON P. ANDERSON MESON PHYSICS FACILITY RADIOISOTOPE PROGRAM. 22-8

RADIOISOTOPES
MEDICAL RADIOISOTOPES FROM LAMPF: STRONTIUM -82 - RUBIDIUM -82 PRODUCTION, RECOVERY, AND BIOMEDICAL GENERATOR. 5-98

RADIOISOTOPIC
RECOVERY OF SPALLOGENIC, CARRIER FREE YTTRIUM -88 FOR RADIOISOTOPIC PHOTONEUTRON SOURCES. 7-15

RADIOKRYPTON
ADSORPTION OF RADIOKRYPTON ON ACTIVATED CHARCOAL IN THE PRESENCE OF HYDROGEN. 27-2

RADIOLOGICAL
RADIOLOGICAL HEALTH IN INDUSTRIAL MEDICAL PRACTICE. 5-121

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES OCTOBER 1 - DECEMBER 31, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-20

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, APRIL 1 - JUNE 30, 1975. INTERACTION OF PLUTONIUM -239 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-21

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JANUARY 1 - MARCH 31, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-22

PROGRESS REPORT. ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JULY 1 THROUGH SEPTEMBER 30, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-45

RADIONUCLIDES
COMPARATIVE METABOLISM OF RADIONUCLIDES IN MAMMALS. 9. RETENTION OF SELENIUM -75 IN THE MOUSE, RAT, MONKEY, AND DOG 5-43

RADIOTHERAPY
PIONS AND HEAVY IONS IN RADIOTHERAPY: A BRIEF REVIEW 5-113

COMPUTER MODELING OF NEUTRON DOSE AT VARIOUS LOCATIONS WITHIN THE BODY DURING PION RADIOTHERAPY 5-46

APPLICATION OF FLOW MICROFLUOROMETRY TO PROBLEMS IN RADIOTHERAPY 5-5

RADIUM
(TRITON,PF) REACTION ON RADIUM -226. 25-3

RADON
RADON -222 FROM THE OCEAN SURFACE. 11-44

RAMAN
USE OF TWO ANGLE ELASTIC AND RAMAN SCATTERING TO OBTAIN MOLECULAR DENSITY AND AEROSOL SCATTERING PROFILES. 1-31

RAMSES
RAMSES, A TWO DIMENSIONAL, PIC TYPE, LASER PULSE PROPAGATION CODE. 20-128

RANDOM
RATIONAL DYNAMIC LOADS ANALYSIS FOR AIR CUSHION VEHICLES IN RANDOM SEAWAY OR TERRAIN. 30-76

RANGE
EXPERIMENTAL DETERMINATION OF PHOTOFISSION NEUTRON MULTIPLICITIES FOR EIGHT ISOTOPES IN THE MASS RANGE 232 A 239. 16-1

SHORT RANGE RADIO TELEMETRY FOR ELECTRONIC IDENTIFICATION USING MODULATED RF BACKSCATTER. 19-18

ROLE OF TWO NUCLEON SHORT RANGE CORRELATIONS IN PION CHARGE EXCHANGE REACTIONS WITH NUCLEI. 25-198

TOTAL NEUTRON CROSS SECTIONS OF HELIUM -3, HELIUM -4, LITHIUM -6, LITHIUM -7 IN THE MEV RANGE. 25-225

DEUTERON - DEUTERON TOTAL SCATTERING CROSS SECTIONS IN THE VELOCITY RANGE 950-2250 M/SEC. 25-47

EXTENDING THE TEMPERATURE RANGE OF THE HTR. 28-13

RANGED
EFFECT OF SHORT RANGED UNITARY TRANSFORMS ON THE RATE OF THE REACTION NEGATIVE PION PLUS DEUTERON GOES TO GAMMA RAY PLUS TWO NEUTRONS. 25-52

RAPID
PHYSICAL METHODS FOR RAPID ON-LINE DETECTION OF TRICHINELLA IN PORK. 5-112

PROCEDURE FOR THE RAPID LYSIS OF MAMMALIAN CELLS PRIOR TO ALKALINE SUCROSE DENSITY GRADIENT CENTRIFUGATION 5-119

RAPID DIGESTION PROCESS FOR DETERMINATION OF TRICHINELLAE IN MEAT. 5-122

RAPID DISEASE SCREENING WITH ENZYME LABELED ANTIBODIES. 5-123

LASER FLOW MICROPHOTOMETERS FOR RAPID ANALYSIS AND SORTING OF INDIVIDUAL MAMMALIAN CELLS. 5-92

RAPID EXCAVATION BY ROCK MELTING. 11-45

RAPIDITY
WHAT CAN RAPIDITY GAPS TEACH US ABOUT CLUSTERING 25-229

WHAT DO RAPIDITY GAPS SAY ABOUT CLUSTERING 25-230

CLUSTER SIZE AND THE RAPIDITY GAP LENGTH DISTRIBUTION. 25-31

RARE
ELECTRON TRANSFER IN COLLISIONS BETWEEN ATOMIC IONS AND RARE GAS ATOMS. 4-17

MOSSBAUER STUDY OF RARE GAS MATRIX ISOLATED TELLURIUM -125 DIMERS, TELLURIUM -125 HEXAFLUORIDE, AND TELLURIUM -125 TETRACHLORIDE MOLECULES. 4-40

REACTIONS OF DIATOMIC RARE GAS IONS WITH RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 50 EV. 4-54

RELATIVISTIC HARTREE-FOCK COMPTON PROFILES FOR THE RARE GASES AND LEAD. 4-56

NUCLEAR CHARGE DISTRIBUTION IN FISSION SPECTRUM NEUTRON INDUCED FISSION: FRACTIONAL CUMULATIVE YIELDS OF RARE GAS NUCLIDES FROM FISSION OF URANIUM -235 AND URANIUM -238. 16-10

KILOVOLT SULFUR -33 (NEUTRON,ALPHA-0) AND SULFUR -33 (NEUTRON,GAMMA) CROSS SECTIONS: IMPORTANCE IN THE NUCLEOSYNTHESIS OF THE RARE NUCLEUS SULFUR -36. 25-101

EQUILIBRIUM DEFORMATIONS AND EXCITATION ENERGIES FOR NONCOLLECTIVE STATES IN ODD Z RARE EARTH NUCLEI. 25-67

RAREFACTIONS
MACH WAVES AND REFLECTED RAREFACTIONS IN ALUMINUM. 4-35

REFLECTED RAREFACTIONS, DOUBLE REGULAR REFLECTIONS, AND MACH WAVES IN ALUMINUM AND BERYLLIUM. 18-39

RAT
COMPARATIVE METABOLISM OF RADIONUCLIDES IN MAMMALS 9. RETENTION OF SELENIUM -75 IN THE MOUSE, RAT, MONKEY, AND DOG. 5-43

RATE
RATE OF DNA SYNTHESIS DURING S PHASE BY MAMMALIAN CELLS IN VITRO. 5-124

RECOVERY RATE AND RESIDUAL INJURY IN MONKEYS EXPOSED TO LARGE DOSES OF RADIATION BY FRACTIONATION 5-125

LACK OF SPECIFIC CORRELATION OF THE DEOXYCYTIDINE TRIPHOSPHATE POOL LEVEL WITH RATE OF DNA SYNTHESIS. 5-91

ON THE THERMAL RATE COEFFICIENT AND ACTIVATION ENERGY OF THE IODINE + IODINE(2) ATOM EXCHANGE REACTION 6-12

PARADOX. THE THERMAL RATE COEFFICIENT FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION 6-13

EFFECT OF REAGENT VIBRATIONAL ENERGY ON MEASURED REACTION RATE CONSTANTS. 6-7

EFFECT OF STRAIN RATE ON THE TENSILE PROPERTIES OF ALPHA AND DELTA STABILIZED PLUTONIUM 23-14

HIGH RATE PHYSICAL VAPOR DEPOSITION OF REFRACTORY METALS 23-29

ONE DIMENSIONAL ELASTIC - PLASTIC CALCULATIONS INVOLVING STRAIN HARDENING AND STRAIN RATE EFFECTS FOR ALUMINUM 23-44

ONE DIMENSIONAL ELASTIC - PLASTIC CALCULATIONS INVOLVING STRAIN HARDENING AND STRAIN RATE EFFECTS FOR ALUMINUM. 23-45

YIELD STRENGTH OF FINE GRAINED VANADIUM PRODUCED BY HIGH RATE PHYSICAL VAPOR DEPOSITION 23-64

PHOTOIONIZATION CROSS SECTIONS AND RADIATIVE RECOMBINATION RATE COEFFICIENTS FOR IRON(XV-XXV) 25-162

PHOTOIONIZATION CROSS SECTIONS AND RADIATIVE RECOMBINATION RATE COEFFICIENTS FOR POSITIVE IONS OF CARBON AND GOLD. 25-163

EFFECT OF SHORT RANGED UNITARY TRANSFORMS ON THE RATE OF THE REACTION NEGATIVE PION PLUS DEUTERON GOES TO GAMMA RAY PLUS TWO NEUTRONS. 25-52

KIWI-B1A GAMMA DOSE RATE MEASUREMENTS. 30-38

RATES
RNA SYNTHESIS IN CHINESE HAMSTER CELLS. 3. NON-COORDINATE INCREASES DURING INTERPHASE IN SYNTHESIS RATES FOR INFORMOSOMAL, POLYSOMAL, AND HETEROGENEOUS NUCLEAR RNAS. 5-129

CESIUM KINETICS DATA FOR ESTIMATING FOOD CONSUMPTION RATES OF TROUT. 5-34

PLUTONIUM RELEASE RATES FROM PLUTONIUM -238 FUELS EXPOSED TO AQUATIC ENVIRONMENTS. 17-42

ENERGY DEPOSITION RATES IN A LASER -FUSION REACTOR. 20-38

FRACTURE BEHAVIOR OF IRIDIUM - 0.3 PERCENT TUNGSTEN AT HIGH STRAIN RATES. 23-23

LICHEN FORAGE INGESTION RATES OF FREE ROAMING CARIBOU ESTIMATED WITH FALLOUT CESIUM -137. 30-42

RATIO
ULTRAVIOLET CHARGE EXCHANGE ENERGY LOSS PARTITION AS A FUNCTION OF BURST ALTITUDE AND YIELD TO MASS RATIO. 4-68

RATIONAL
RATIONAL DYNAMIC LOADS ANALYSIS FOR AIR CUSHION VEHICLES IN RANDOM SEAWAY OR TERRAIN. 30-76

RATIOS
PREPARATIVE METHODS FOR ANALYSIS OF DNA, PROTEIN AND NUCLEAR - TO - CYTOPLASMIC RATIOS IN NORMAL AND TUMOR CELL POPULATIONS. 5-118

MAGNIFICATION RATIOS FOR EXPLOSIVE DRIVEN SHOCKS. 15-17

RATS
RETENTION AND EXCRETION OF COBALT -60 IN MICE, RATS, MONKEYS, AND DOGS. 5-128

RAY
PORTABLE FLASH X RAY SYSTEMS APPLICATIONS AND TECHNIQUES. 2-20

DETERMINATION OF OXYGEN -17 AND OXYGEN -18 ISOTOPIC ABUNDANCES IN PLUTONIUM -238 MATERIALS BY GAMMA RAY SPECTROMETRY. 2-9

COSMIC GAMMA RAY BURSTS. 3-12

GAMMA RAY BURSTS FROM BLACK HOLE ACCRETION DISKS 3-26

GEOCHEMICAL MAPPING OF THE MOON BY ORBITAL GAMMA RAY SPECTROSCOPY 3-18

MODEL COSMIC GAMMA RAY BURST 3-26

ANALYSIS OF A SCORPIUS X-1 X RAY SPECTRUM OBTAINED WITH COOLED SILICON (LI) DETECTORS 3-3

OBSERVATIONS OF COSMIC GAMMA RAY BURSTS. 3-30

OBSERVATIONS OF GAMMA RAY BURSTS 3-31

PRELIMINARY DESIGN AND PERFORMANCE OF AN ADVANCED GAMMA RAY SPECTROMETER FOR FUTURE ORBITER MISSIONS. 3-35

RESULTS OF X RAY AND OPTICAL MONITORING OF SCORPIUS X-1 IN 1970 3-39

STUDY OF FAST TIME STRUCTURE WITHIN COSMIC GAMMA RAY BURSTS 3-42

X RAY STAR 3-47

LASER PRODUCED L-SERIES X RAY SPECTRA. 4-34

SOME OBSERVATIONS ON THE COMPARATIVE EFFECTS OF INBREEDING AND WHOLE BODY X RAY EXPOSURE TO SEVENTY GENERATIONS OF MICE. 5-134

CONVERSION OF PARA TO ORTHOHYDROGEN IN A GAMMA RAY AND NEUTRON RADIATION FIELD 8-7

DISPERSION CORRECTIONS FOR X RAY ATOMIC SCATTERING FACTORS. 9-9

FISSION PRODUCT GAMMA RAY AND PHOTONEUTRON SPECTRA. 16-3

MICRO-CHANNEL PLATE AS A PARALLEL BORE COLLIMATOR FOR SOFT X RAY IMAGING. 19-14

FABRICATION AND CALIBRATION OF THIN PLASTIC SCINTILLATOR X RAY DETECTORS 19-7

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS 1 X RAY METHOD 20-102

BETA ABSORPTION IN TRITIATED TARGETS AND X RAY COUNTING CORRECTIONS. 20-11

CALCULATION OF X RAY PINHOLE PHOTOGRAPHS. 20-13

REVIEW OF SOFT X RAY LASERS USING CHARGE EXCHANGE. 20-133

X RAY CONTINUUM AND LINE RADIATION FROM PLASMAS PRODUCED BY 10.6 MICROMETER LASER FOCUSED ON FLAT TARGETS. 20-164

X RAY PINHOLE CAMERAS FOR LASER PLASMA EXPERIMENTS. 20-165

FAST FRAMING AND X RAY PINHOLE CAMERA TECHNIQUES FOR STUDY OF LASER GENERATED PLASMAS. 20-44

DISCRETE ORDINATE TO SPHERICAL HARMONIC CONVERSIONS FOR RAY EFFECT MITIGATION IN X-Y GEOMETRY. 24-9

MEASUREMENT OF THE ENERGY OF THE 6129 KEV GAMMA RAY OF OXYGEN -16. 25-114

MORE 14 MEV, NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS. 25-122

MUONIC X RAY MEASUREMENTS OF NUCLEAR CHARGE RADII IN THE MASS 60 REGION. 25-126

NUCLEAR MODELS AND DATA FOR GAMMA RAY PRODUCTION. 25-145

TECHNIQUES WITH CALIFORNIUM -252 FOR NEUTRON CAPTURE GAMMA RAY SPECTROSCOPY. 25-216

COMPARISON OF COPPER AND GOLD ORE RESPONSES TO NEUTRON CAPTURE AND DECAY GAMMA RAY TECHNIQUES WITH CALIFORNIUM -252. 25-33

EFFECT OF SHORT RANGED UNITARY TRANSFORMS ON THE RATE OF THE REACTION NEGATIVE PION PLUS DEUTERON GOES TO GAMMA RAY PLUS TWO NEUTRONS. 25-52

EVALUATION OF GAMMA RAY PRODUCTION CROSS SECTIONS FROM NEUTRON INDUCED REACTIONS ON TUNGSTEN. 25-70

FOURTEEN MEV, NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS FOR SEVERAL ELEMENTS. 25-84

GAMMA RAY ANGULAR DISTRIBUTIONS AND PARITY TESTS IN THE DECAYS OF POLARIZED LUTETIUM -173 AND LUTETIUM -174M,G. 25-85

TOTAL PLUTONIUM AND URANIUM DETERMINATION BY GAMMA RAY DENSITOMETRY. 26-28

GUIDE TO GAMMA RAY ASSAY FOR NUCLEAR MATERIAL ACCOUNTABILITY. 26-8

MONTE CARLO CALCULATION OF THE GAMMA RAY HEATING IN A PHOEBUS 1 NOZZLE FROM CORE SOURCES. 30-49

RAYS
COPPER MINING AND MILL ANALYSES BY GAMMA RAYS FROM CAPTURE OF CALIFORNIUM -252 NEUTRONS 2-6

IN VIVO TISSUE ANALYSIS USING MU MESIC X RAYS 5-79

INITIAL COMPARATIVE RESPONSE OF EXPERIMENTAL TUMORS TO PEAK PIONS AND X RAYS 5-81

ATOMIC SCATTERING FACTORS FOR X RAYS 9-3

ANALYSIS OF GEOTHERMAL POWER PLANT WATER USING GAMMA RAYS FROM CAPTURE OF CALIFORNIUM -252 NEUTRONS 11-3

USE OF MUONIC X RAYS FOR TISSUE ANALYSIS 22-54

MUONIC X RAYS FROM THE TRANSITION NUCLEI PLATINUM -194, 195, 196 25-127

RADIATIVE CAPTURE GAMMA RAYS FROM THE REACTION LEAD -208 (NEUTRON,GAMMA) LEAD -209 FOR 11 MEV INCIDENT NEUTRONS 25-192

DIFFERENTIAL CROSS SECTIONS FOR GAMMA RAYS FROM IRON FOR INCIDENT NEUTRONS OF 8.5, 10.0, 12.2, AND 14.2 MEV 25-49

ABSULUTE CROSS SECTIONS FOR PRODUCTION OF PROMPT NUCLEAR GAMMA RAYS BY FAST PIONS 25-7

REACTING
ALPHA PARTICLE ENERGY ABSORPTION IN A REACTING DEUTERIUM TRITIUM SPHERE 20-3

REACTION
ABSTRACTION VERSUS EXCHANGE IN THE REACTION OF HYDROGEN WITH DEUTERIUM BROMIDE 6-1

ON THE THERMAL RATE COEFFICIENT AND ACTIVATION ENERGY OF THE IODINE + IODINE(2) ATOM EXCHANGE REACTION 6-12

PARADOX: THE THERMAL RATE COEFFICIENT FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION 6-13

QUASICLASSICAL TRAJECTORY STUDY OF THE MOLECULAR BEAM KINETICS OF THE DEUTERIUM ATOM - HYDROGEN HALIDE EXCHANGE REACTION 6-15

CHEMICAL REACTION DYNAMICS PART 2 REACTION NETWORKS. 6-2

COMPARISON OF THE COMBINED PHASE SPACE TRAJECTORY AND QUASICLASSICAL TRAJECTORY METHODS IN THE STUDY OF REACTION DYANMICS: HYDROGEN + IODINE(2) AND HYDROGEN + BROMINE(2). 6-4

EFFECT OF REAGENT VIBRATIONAL ENERGY ON MEASURED REACTION RATE CONSTANTS. 6-7

KINETICS OF THE REACTION BETWEEN PLUTONIUM(III) AND CHROMIUM(VI) IN AQUEOUS PERCHLORATE SOLUTIONS. 7-11

MEASUREMENTS OF GAMMA-F/GAMMA-N USING DIRECT REACTION FISSION TECHNIQUES. 16-8

OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 1. CANTED AND PARALLEL MIRRORS. 20-107

OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 2. PARALLEL MIRRORS, MULTITRAVEL. 20-108

OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 3. ASYMMETRIC CONFOCAL RESONATOR. 20-109

VERY HIGH INTENSITY REACTION CHAMBER DESIGN. 20-163

(PI-PLUS,PP) REACTION ON SEVERAL LIGHT NUCLEI. 22-1

EXTRACTION OF NEUTRON - NEUTRON SCATTERING LENGTH FROM THE REACTION PI -DEUTERON TO GAMMA NEUTRON - NEUTRON. 22-14

EXTRACTION OF NEUTRON - NEUTRON SCATTERING LENGTH FROM THE REACTION PI -DEUTERON TO GAMMA NEUTRON - NEUTRON. ERRATUM. 22-15

OFF-SHELL EFFECTS IN THE REACTION PROTON + PROTON TO NEUTRON + PROTON + POSITIVE PION. 22-35

REACTION CARBON -13 (PI-PLUS, PI-ZERO) NITROGEN -13 (G.S.) FOR E(PI-PLUS) = 30 TO 190 MEV. 22-49

LIFETIMES OF NEGATIVE PARITY STATES OF SCANDIUM -49 BY THE CALCIUM -48(PROTON, GAMMA)SCANDIUM -49 REACTION. 25-102

MEASUREMENT OF THE CROSS SECTION FOR THE REACTION PI(-) + PROTON TO PI(+) + NEUTRON AT 350 AND 300 MEV. 25-113

MODEL OF THE PROTON PLUS PROTON GOES TO PROTON PLUS NEUTRON PLUS POSITIVE PION REACTION AT 766 MEV. 25-119

NEUTRON PRODUCTION AT 0 DEGREES FROM THE REACTION PROTON - PROTON TO NEUTRON -PROTON - PI(+) AT THE MEDIUM ENERGIES. 25-132

RADIATIVE CAPTURE GAMMA RAYS FROM THE REACTION LEAD -208 (NEUTRON,GAMMA) LEAD -209 FOR 11 MEV INCIDENT NEUTRONS. 25-192

YTTRIUM -89 (TRITON,PROTON) YTTRIUM -91 REACTION AT E(T) = 20 MEV 25-231

(TRITON,PP) REACTION ON RADIUM -226 25-3

(TRITON PROTON) REACTION ON ARGON -36, 38, 40 25-4

2P 1H STATES IN LEAD -209 EXCITED BY THE METASTABLE BISMUTH -210 (TRITON, ALPHA) REACTION 25-5

EFFECT OF SHORT RANGED UNITARY TRANSFORMS ON THE RATE OF THE REACTION NEGATIVE PION PLUS DEUTERON GOES TO GAMMA RAY PLUS TWO NEUTRONS 25-52

EXPERIMENTAL STUDY OF THE PI+ + DEUTERON TO PROTON + PROTON REACTION AT PION ENERGIES OF 40, 50 AND 60 MEV 25-77

ANALOGS OF THE SILICON -28 COLLECTIVE M1 STATES OBSERVED IN THE SILICON -28 (TRITON,HELIUM -3) ALUMINUM -28 REACTION 25-9

REACTIONS
REACTIONS OF DIATOMIC RARE GAS IONS WITH RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 50 EV 4-54

QUASICLASSICAL TRAJECTORY STUDY OF THE HYDROGEN(2) + FLUORINE(2) REACTIONS 6-14

CARBON DISULFIDE INSERTION REACTIONS WITH COPPER(I) MERCAPTIDE COMPLEXES 7-1

KINETICS OF THE OXIDATION REDUCTION REACTIONS OF URANIUM, NEPTUNIUM, PLUTONIUM AND AMERICIUM IN AQUEOUS SOLUTIONS 7-10

SYSTEM FOR STUDYING THE INITIAL STAGES OF GAS - METAL REACTIONS 7-22

MONOCHROMATIC PHOTON INDUCED THORIUM -232 PHOTONUCLEAR REACTIONS 16-9

MECHANISM OF HEAVY ION REACTIONS AND THE PRODUCTION OF SUPERHEAVY NUCLEI 25-116

MODELS BASED ON MULTICHANNEL R-MATRIX THEORY FOR EVALUATING LIGHT ELEMENT REACTIONS 25-120

NEUTRON ENERGY AND VELOCITY DISTRIBUTIONS FROM THERMAL DEUTERIUM - TRITIUM REACTIONS 25-129

PARITY VIOLATION IN P-P AND P-BE REACTIONS 25-156

PHOTOFISSION AND PHOTONEUTRON REACTIONS IN URANIUM -235. 25-160

PHOTOFISSION AND PHOTONEUTRON REACTIONS IN URANIUM -236. 25-161

PION CHARGE EXCHANGE REACTIONS WITH NUCLEI. 25-168

QUASIFREE PION PRODUCTION AS SEEN IN NEUTRON - DEUTERON REACTIONS WITH A FINAL FAST DEUTERON. 25-190

RADIOCHEMICAL INVESTIGATION OF REACTIONS OF ARGON -40 AND KRYPTON -84 IONS WITH URANIUM -238 TARGETS. 25-193

RADIOCHEMICAL STUDIES OF SOME LOW AND MEDIUM ENERGY NUCLEAR REACTIONS PRODUCED BY ACCELERATED TRITONS, DEUTERONS, AND PROTONS. 25-194

ROLE OF TWO NUCLEON SHORT RANGE CORRELATIONS IN PION CHARGE EXCHANGE REACTIONS WITH NUCLEI. 25-198

STUDY OF THE (TRITON,PROTON) REACTIONS ON HELIUM -4, LITHIUM -6, LITHIUM -7 AND BERYLLIUM -9. 25-211

SURVEY OF PION CHARGE EXCHANGE REACTIONS WITH NUCLEI. 25-213

TEST OF THE GENERALIZED PAULI PRINCIPLE AND OF SUPERMULTIPLET SYMMETRY IN THE REACTIONS TRITON + BERYLLIUM -8 TO LITHIUM -6 + HELIUM -6, LITHIUM -6(*0+) + HELIUM -6. 25-217

ZERO PLUS STATES NEAR THE N=20 NEUTRON SHELL FROM ARGON(TRITON,PROTON) REACTIONS. 25-232

CALCIUM -41 (DEUTERON,TRITON) AND (DEUTERON,H) REACTIONS. 25-24

CHARGE INDEPENDENCE IN THE MASS 6 SYSTEM AS OBSERVED IN THE LITHIUM -6 (TRITON, HELIUM -3)HELIUM -6(0.0) AND LITHIUM -6 (TRITON,TRITON*) LITHIUM -6 (3.56) REACTIONS. 25-28

COMPARISON OF (TRITON,HELIUM -3), (HELIUM -3,TRITON) AND (HELIUM -3,PROTON) REACTIONS OF F-P SHELL NUCLEI. 25-32

COMPLETE FUSION CROSS SECTIONS IN HEAVY ION REACTIONS. 25-34

CONDITION FOR A VANISHING CROSS SECTION AT THETA = PI/2 IN BARSHAY-TEMMER REACTIONS. 25-35

CROSS SECTIONS FOR (NEUTRON,X-NEUTRON) REACTIONS BETWEEN 7.5 AND 28 MEV. 25-41

EVALUATION OF GAMMA RAY PRODUCTION CROSS SECTIONS FROM NEUTRON INDUCED REACTIONS ON TUNGSTEN 25-70

ACTIVATION STUDIES OF PION INDUCED REACTIONS ON CARBON, NITROGEN, OXYGEN, FLUORINE, ALUMINUM AND COPPER. 25-8

HELIUM -3(GAMMA,NEUTRON) 2 PROTON AND HELIUM -3(GAMMA,PROTON) NP REACTIONS. 25-92

HIGH ENERGY NUCLEAR REACTIONS IN OUR PLANETARY SYSTEM. 25-93

REACTIVE
RICE A COMPUTER PROGRAM FOR MULTICOMPONENT CHEMICALLY REACTIVE FLOWS AT ALL SPEEDS 18-41

TRANSIENT DYNAMICS OF CHEMICALLY REACTIVE GASEOUS MIXTURES WITH TURBULENCE. 18-52

REACTIVITY
REACTIVITY CHANGES DUE TO BUBBLE GROWTH OR COLLAPSE IN MOLTEN FUEL SYSTEMS 28-36

DESIGN FOR A ROTARY REACTIVITY CONTROL FOR A TEST REACTOR. 28-9

PHOEBUS-2A REACTIVITY ANALYSIS. 30-59

REACTOR
FAST REACTOR FISSION YIELDS FOR URANIUM -233, URANIUM -235, URANIUM -238, AND PLUTONIUM -239 AND DETERMINATION OF BURNUP IN FAST BREEDER REACTOR MIXED OXIDE FUELS 2-14

CHIT A COST ACCOUNTING PROGRAM FOR POSTIRRADIATION EXAMINATIONS OF FAST BREEDER REACTOR MATERIALS. 2-5

DETERMINATION OF COMBINED SULFUR IN NUCLEAR REACTOR FUEL MATERIALS. 2-8

PROPOSED METS (MAGNETIC ENERGY TRANSFER AND STORAGE) - FTR (FUSION TEST REACTOR) COUPLED SUPERCONDUCTING PROTOTYPE SYSTEM. 8-40

PROSPECTS FOR CONVERTING THORIUM -232 TO URANIUM -233 IN A LINEAR THETA PINCH HYBRID REACTOR (LTPHR). 10-109

RADIOACTIVITY INDUCED IN A THETA PINCH FUSION REACTOR. 10-111

SCYLLAC FUSION TEST REACTOR DESIGN. 10-121

SHIELDING AND ACTIVATION OF A THETA PINCH FUSION TEST REACTOR (TPFTR). 10-124

THETA PINCH FUSION TEST REACTOR. 10-147

THETA PINCH TOROIDAL REACTOR. 10-148

DEUTERIUM - TRITIUM FUSION REACTOR ACTIVATION AND AFTERHEAT. 10-19

APPLICATION OF SENSITIVITY ANALYSIS TO A QUANTITATIVE ASSESSMENT OF NEUTRON CROSS SECTION REQUIREMENTS FOR THE TFTR (TOKAMAK FUSION TEST REACTOR): AN INTERIM REPORT. 10-2

ENERGY STORAGE, COMPRESSION, AND SWITCHING IN A THETA PINCH FUSION TEST REACTOR. 10-30

ENGINEERING DESIGN OF A LINEAR THETA PINCH HYBRID REACTOR (LTPHR). 10-31

FUSION REACTOR SYSTEMS. 10-44

HEAT TRANSFER MODEL FOR COMPOSITE FIRST WALL MATERIALS IN A PULSED HIGH BETA CONTROLLED THERMONUCLEAR REACTOR (CTR). 10-46

NUCLEONIC DESIGN SENSITIVITY ANALYSIS FOR THE REFERENCE THETA PINCH REACTOR (RTPR). 10-86

EXPERIENCE RELATED TO THE SAFETY OF ADVANCED LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL ELEMENTS. 17-28

IODINE -131 RELEASE FROM AN HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) DURING THE LOFC (LOSS OF COOLANT) ACCIDENT. 17-30

MULTI-PHASE FLOW METHODS FOR REACTOR SAFETY ANALYSIS. 18-25

COMPUTER SIMULATION OF A DEUTERIUM -TRITIUM PELLET MICROEXPLOSION IN A MAGNETICALLY PROTECTED LASER FUSION REACTOR. 20-20

ENERGY DEPOSITION RATES IN A LASER -FUSION REACTOR. 20-38

ENGINEERING CONCEPTS FOR LASER FUSION REACTOR APPLICATIONS. 20-39

LASER - FUSION ELECTRIC GENERATING STATIONS BASED ON THE MAGNETICALLY PROTECTED REACTOR CAVITY. 20-65

ON THE MULTIPLICITY OF SOLUTIONS OF A DIFFERENTIAL EQUATION ARISING IN CHEMICAL REACTOR THEORY. 21-60

EFFECTS OF REACTOR NEUTRON, 14 MEV NEUTRON AND ENERGETIC CHARGED PARTICLE IRRADIATIONS ON THE CRITICAL CURRENT IN NIOBIUM(3)TIN. 23-16

QUANTITATIVE BASIS FOR CROSS SECTION REQUIREMENTS FOR A FUSION TEST REACTOR. 25-188

NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL RODS. 26-12

PERFORMANCE OF SELECTED NONDESTRUCTIVE ASSAY TECHNIQUES ON LWR (LIGHT WATER REACTOR) (PLUTONIUM,URANIUM) DIOXIDE AND URANIUM DIOXIDE FUEL. 26-21

IN-PLANT NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL MATERIALS. 26-9

TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, JANUARY 1 - MARCH 31, 1975 27-19

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS, JULY 1 - SEPTEMBER 30, 1975. 28-11

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS, APRIL JUNE 30, 1975, AND FY 1975 28-12

FTR (FUSION TEST REACTOR) TAG BURNUP 28-14

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, JANUARY THROUGH MARCH 1975. 28-18

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, APRIL -JUNE 1975. 28-19

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, JULY -SEPTEMBER 1975. 28-20

LASL ADVANCED PLUTONIUM LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL PROGRAM PUBLICATIONS. 28-21

MODIFICATION OF THE LOS ALAMOS FAST PLUTONIUM REACTOR. 28-22

NEUTRON MONTE CARLO CALCULATION FOR A 1000 MW PROPULSION REACTOR. 28-24

PLUTONIUM FAST REACTOR AT LOS ALAMOS. 28-26

PRELIMINARY REPORT, STUDY OF FAST REACTOR SAFETY TEST FACILITIES. 28-28

PRELIMINARY TOPICAL REPORT ON COMPARISON REACTOR DISASSEMBLY CALCULATIONS. 28-29

PRESTRESSED CONCRETE REACTOR VESSELS: REVIEW OF DESIGN AND FAILURE CRITERIA. 28-30

PROPOSAL FOR ANALYSIS OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) CORE RESPONSE TO SEISMIC INPUT. 28-31

QUARTERLY REPORT, EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, JANUARY 1 THROUGH MARCH 31, 1975. 28-32

QUARTERLY REPORT, EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-33

QUARTERLY REPORT, HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, OCTOBER THROUGH DECEMBER 1974. 28-34

QUARTERLY REPORT, TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-35

TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, APRIL 1 - JUNE 30, 1975. 28-38

TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, JULY 1 - SEPTEMBER 30, 1975. 28-39

CLADDING OVALITIES IN ADVANCED LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL ELEMENTS. 28-6

CONCEPTUAL DESIGN FOR A FAST REACTOR SAFETY TEST FACILITY. PRELIMINARY REPORT. 28-7

CONSEQUENCES OF SODIUM BOND LOSS FROM AN LMFBR (LIQUID METAL FUELED BREEDER REACTOR) CARBIDE FUEL ELEMENT. 28-8

DESIGN FOR A ROTARY REACTIVITY CONTROL FOR A TEST REACTOR. 28-9

CRITICAL ASSEMBLY MOCKUP STUDIES OF THE PHOEBUS-2 ROVER REACTOR. 30-15

FEASIBILITY STUDY OF THE DISPOSAL OF A ROVER REACTOR WITH HIGH EXPLOSIVES. 30-28

POWER DENSITY ASYMMETRIES IN COUPLED CORE REACTOR SYSTEMS. 30-64

QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENDING JULY 31, 1967 30-70

THERMAL AND FLOW PERFORMANCE ANALYSIS OF THE KIWI-B-4E REACTOR. 30-90

REACTORS
USE OF LITHIUM (DEUTERON,NEUTRON) NEUTRONS FOR SIMULATION OF RADIATION EFFECTS IN FUSION REACTORS. 10-154

FIRST WALL MATERIALS PROBLEMS IN FUSION REACTORS. 10-39

CAPACITOR REQUIREMENTS FOR CONTROLLED THERMONUCLEAR EXPERIMENTS AND REACTORS. 10-5

HIGH TEMPERATURE NUCLEAR REACTORS AS AN ENERGY SOURCE FOR HYDROGEN PRODUCTION 28-17

MOISTURE DETECTOR FOR THE PRIMARY LOOP OF GAS COOLED REACTORS. 28-23

EFFECTS OF ADDING HYDROGENOUS MATERIAL TO KIWI REACTORS. 30-21

FABRICATION OF URANIUM LOADED GRAPHITE FUEL ELEMENTS FOR KIWI-B4/B5 REACTORS. 30-27

READOUT
DELAY LINE READOUT OF ANODE PLANES IN PROPORTIONAL CHAMBERS 19-3

REAGENT
EFFECT OF REAGENT VIBRATIONAL ENERGY ON MEASURED REACTION RATE CONSTANTS 6-7

REAL
CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY, JULY - DECEMBER 1974. 17-6

REAL NUMBERS AS A WREATH PRODUCT. 21-68

REALISTIC
NEUTRON STAR MODELS WITH REALISTIC HIGH DENSITY EQUATIONS OF STATE. 3-28

VACUUM POLARIZATION IN STRONG, REALISTIC ELECTRIC FIELDS. 25-228

REBALANCE
COARSE MESH REBALANCE METHODS COMPATIBLE WITH THE SPHERICAL HARMONIC FICTITIOUS SOURCE IN NEUTRON TRANSPORT CALCULATIONS. 24-6

RECEIVED
BIBLIOGRAPHY OF CHEMISTRY AND METALLURGY DOCUMENTS RECEIVED BY THE LOS ALAMOS DOCUMENT ROOM IN THE PERIOD JANUARY 1, 1947 TO JANUARY 1, 1948. 23-2

RECOGNITION
INVESTIGATION OF PATTERN RECOGNITION TECHNIQUES FOR THE IDENTIFICATION OF SPLITTING SURFACES IN MONTE CARLO PARTICLE TRANSPORT CALCULATIONS. 21-44

MONTE CARLO SPLITTING SURFACE IDENTIFICATION BY PATTERN RECOGNITION. 21-50

RECOIL
OBSERVATION OF THE RECOIL PROTON IN QUASIELASTIC PION SCATTERING. 25-148

RECOMBINATION
PHOTOIONIZATION CROSS SECTIONS AND RADIATIVE RECOMBINATION RATE COEFFICIENTS FOR IRON(XV-XXV). 25-162

PHOTOIONIZATION CROSS SECTIONS AND RADIATIVE RECOMBINATION RATE COEFFICIENTS FOR POSITIVE IONS OF CARBON AND GOLD. 25-163

RECORDING
IMAGE INTENSIFICATION AND VIDEO RECORDING SYSTEM FOR ASTRONOMICAL OBSERVATIONS. 3-22

RECOVERY
DISTRIBUTION OF PLASMA SHEET THINNING AND RECOVERY EVENTS IN THE MAGNETOTAIL SURVEYED BY THE IMP-6 SATELLITE. 1-3

RECOVERY RATE AND RESIDUAL INJURY IN MONKEYS EXPOSED TO LARGE DOSES OF RADIATION BY FRACTIONATION. 5-125

MEDICAL RADIOISOTOPES FROM LAMPF: STRONTIUM -82 - RUBIDIUM -82 PRODUCTION, RECOVERY, AND BIOMEDICAL GENERATOR. 5-98

RECOVERY OF SPALLOGENIC, CARRIER FREE YTTRIUM -88 FOR RADIOISOTOPIC PHOTONEUTRON SOURCES. 7-15

ENERGY RECOVERY AND OTHER ENERGY RELATED APPLICATIONS OF THE HEAT PIPE. 12-9

GAIN RECOVERY AFTER SATURATION IN SHORT PULSE CARBON DIOXIDE AMPLIFIERS. 20-46

USE OF URANIUM -237 TRACER IN MONITORING PLUTONIUM SCRAP RECOVERY OPERATIONS 23-62

RECRITICALITY
EFFECTS OF NEUTRON STREAMING AND GEOMETRIC MODELS ON MOLTEN FUEL RECRITICALITY ACCIDENTS. 24-10

EFFECTS OF NEUTRON STREAMING AND GEOMETRIC MODELS ON MOLTEN FUEL RECRITICALITY ACCIDENTS. 24-11

RECTANGULAR
ALTERNATING DIRECTION GALERKIN METHODS FOR PARABOLIC AND HYPERBOLIC PROBLEMS ON RECTANGULAR POLYGONS. 21-3

VERSATILE MULTIPOLE CORRECTION MAGNET OF RECTANGULAR APERTURE 22-55

REDISTRIBUTION
MODEL FOR PREDICTING THE REDISTRIBUTION OF PARTICULATE CONTAMINANTS FROM SOIL SURFACES 11-30

REDUCE
METHODS TO REDUCE THE EFFECTS OF SELF LASING AND TARGET REFLECTIONS IN CARBON DIOXIDE LASERS 20-92

REDUCTION
COPRECIPITATION OF URANIUM AND PLUTONIUM OXALATES USING SODIUM FORMALDEHYDE SULFOXYLATE REDUCTION AND DIETHYL OXALATE HYDROLYSIS PRECIPITATION 2-7

KINETICS OF THE OXIDATION - REDUCTION REACTIONS OF URANIUM, NEPTUNIUM, PLUTONIUM AND AMERICIUM IN AQUEOUS SOLUTIONS 7-10

REDUCTION OF SINGULAR COLLISION INTEGRALS IN PERTURBATION THEORY 27-14

REDUCTION IN SURFACTANTS BY IRRADIATION. 30-77

REDUCTIONS
BHABHA FIRST ORDER WAVE EQUATIONS. 2. MASS AND SPIN COMPOSITION, HAMILTONIANS, AND GENERAL SAKATA-TAKETANI REDUCTIONS. 25-21

REDUCTIVE
REDUCTIVE SYNTHESES OF TRANSITION METAL FLUORIDE COMPOUNDS. THE SYNTHESIS OF RHENIUM, OSMIUM AND IRIDIUM PENTAFLUORIDES AND TETRAFLUORIDES. 7-16

REFERENCE
NUCLEONIC DESIGN SENSITIVITY ANALYSIS FOR THE REFERENCE THETA PINCH REACTOR (RTPR). 10-86

REFERENCES
PACER PROGRAM. FY 1974 LASL ACTIVITY. REFERENCES. 30-57

REFINEMENT
PENTAERYTHRITOL TETRANITRATE II: ITS CRYSTAL STRUCTURE AND TRANSFORMATION TO PETN I: AN ALGORITHM FOR REFINEMENT OF CRYSTAL STRUCTURES WITH POOR DATA. 9-17

REFINEMENT OF THE CRYSTAL STRUCTURE OF CUPROSKLODOWSKITE. 9-20

REFINEMENT OF THE CRYSTAL STRUCTURE OF MELAMINE, 2,4,6- TRIAMINO -S- TRIAZINE, USING GENERALIZED SCATTERING FACTORS AT THE OCTUPOLE LEVEL. 9-21

REFLECTED
MACH WAVES AND REFLECTED RAREFACTIONS IN ALUMINUM 4-35

HYBRID SIMULATION OF SCREW PINCH IMPLOSIONS WITH IMPURITIES AND OF THETA PINCH IMPLOSIONS RESULTING IN REFLECTED ION BEAMS. 10-53

REFLECTED RAREFACTIONS, DOUBLE REGULAR REFLECTIONS, AND MACH WAVES IN ALUMINUM AND BERYLLIUM. 18-39

REFLECTIONS
REFLECTED RAREFACTIONS, DOUBLE REGULAR REFLECTIONS, AND MACH WAVES IN ALUMINUM AND BERYLLIUM. 18-39

METHODS TO REDUCE THE EFFECTS OF SELF LASING AND TARGET REFLECTIONS IN CARBON DIOXIDE LASERS. 20-92

REFLECTOR
REFLECTOR MODERATED CRITICAL ASSEMBLIES. 24-18

STRESS ANALYSIS AND STATIC TESTING OF KIWI GRAPHITE REFLECTOR CYLINDER STRUCTURES. 30-68

REFLUX
SEALED REFLUX DISSOLUTION SYSTEM. 2-25

REFRACTIVE
EFFECT OF REFRACTIVE INDEX NONLINEARITY ON THE OPTICAL QUALITY OF HIGH POWER LASER BEAMS. 20-29

INTERFEROMETRIC MEASUREMENTS OF THE NONLINEAR REFRACTIVE INDEX COEFFICIENT RELATIVE TO CARBON DISULFIDE IN LASER SYSTEM RELATED MATERIALS. 20-57

REFRACTORIES
THERMAL AND OTHER PROPERTIES OF REFRACTORIES. TECHNICAL REPORT PROGRAM NO. R056. 23-58

REFRACTORY
UNIQUE REFRACTORY TECHNIQUES FOR FABRICATING SUBTERRENE PENETRATORS 11-60

HIGH RATE PHYSICAL VAPOR DEPOSITION OF REFRACTORY METALS 23-29

REFRIGERANT
EVACUATED REFRIGERANT CONTAINER AS A SOURCE OF VACUUM FOR AIR SAMPLING 17-26

REGION
OBSERVED CORONAL TEMPERATURES AT 1.47 SOLAR RADII IN THE REGION OF A HELMET STRUCTURE 3-32

ELECTRIC FIELD INDUCED HARMONIC GENERATION AS A PROBE OF THE FOCAL REGION OF A LASER BEAM 20-32

MUONIC X RAY MEASUREMENTS OF NUCLEAR CHARGE RADII IN THE MASS 60 REGION 25-126

NUCLEAR CHARGE DISTRIBUTIONS IN THE MASS 60 REGION NEW EVIDENCE FROM MUONIC ISOTOPE SHIFT MEASUREMENTS 25-140

QUASI-ELASTIC PION SCATTERING IN THE (1,3) RESONANCE REGION 25-189

DEFENSE FORCE FOR NATO'S CENTRAL REGION 30-17

REGIONS
CELL CYCLE DEPENDENT PHOSPHORYLATION OF DIFFERENT REGIONS OF F1 HISTONE 5-23

REGISTER
SHIFT REGISTER NEUTRON COINCIDENCE MODULE 26-26

REGULAR
REFLECTED RAREFACTIONS, DOUBLE REGULAR REFLECTIONS, AND MACH WAVES IN ALUMINUM AND BERYLLIUM 18-39

REGULATED
DIGITAL INTERFACE FOR FIELD REGULATED MAGNETS 21-30

REGULATION
EVIDENCE FOR THE REGULATION OF SOLAR WIND HEAT FLUX AT 1 AU 1-9

REGULATION OF ADENYLATE CYCLASE ACTIVITY BY CELL SURFACE HYALURONATE IN HUMAN LIMB MESENCHYMAL CELLS IN VITRO 5-126

REGULATORY
PROGRESS REPORT RESPIRATOR STUDIES FOR THE AEC DIRECTORATE OF REGULATORY STANDARDS, JANUARY 1 THROUGH JUNE 30, 1974 17-46

RELATION
SILICA IN WATER IN RELATION TO COOLING TOWER OPERATION. 2-26

ENTROPY CORRELATION FOR THE 4F AND 5F METALS. RELATION OF ELECTRONIC PROPERTIES TO METALLIC RADII, MAGNETIC TRANSFORMATIONS AND THERMODYNAMICS OF VAPORIZATION 4-21

CHEMISTRY OF PLUTONIUM IN RELATION TO ITS BEHAVIOR IN BIOLOGICAL AND ENVIRONMENTAL SYSTEMS. 7-3

RELATION OF FABRICATION PARAMETERS TO RTG FUEL PROPERTIES. 23-48

INTEGRAL RELATION FOR THE ASYMPTOTIC NORMALIZATION OF THE TRITON 25-100

RELATIONSHIPS
JULY 16TH NUCLEAR EXPLOSION SPACE - TIME RELATIONSHIPS. 30-34

RELATIVE
FOURIER TRANSFORM CARBON-13 NUCLEAR MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS 1. EQUILIBRIUM QUOTIENTS FROM RELATIVE ABUNDANCES OF SOLUTION SPECIES 14-7

INTERFEROMETRIC MEASUREMENTS OF THE NONLINEAR REFRACTIVE INDEX COEFFICIENT RELATIVE TO CARBON DISULFIDE IN LASER SYSTEM RELATED MATERIALS. 20-57

RELATIVISTIC
RELATIVISTIC EFFECTS IN THE THOMAS-FERMI ATOM. 4-55

RELATIVISTIC HARTREE-FOCK COMPTON PROFILES FOR THE RARE GASES AND LEAD. 4-56

SYNCHROTRON RADIATION SPECTRUM FOR A RELATIVISTIC PLASMA COLUMN. 10-143

ENERGY LOSS OF A RELATIVISTIC, FINITE ELECTRON BEAM IN A PLASMA 10-28

INFLUENCE OF SELF FIELDS ON THE FILAMENTATION INSTABILITY IN RELATIVISTIC BEAM PLASMA SYSTEMS. 10-58

INFLUENCE OF SELF FIELDS ON THE VLASOV EQUILIBRIUM AND STABILITY PROPERTIES OF RELATIVISTIC ELECTRON BEAM - PLASMA SYSTEMS. 10-59

INITIAL VALUE PROBLEM IN RELATIVISTIC PLASMA 10-61

COMPUTER SIMULATION OF COLLECTIVE ION ACCELERATION BY RELATIVISTIC ELECTRON BEAMS 10-9

MEAN, MEAN SQUARE AND MOST PROBABLE MOMENTUM FOR A RELATIVISTIC MAXWELLIAN ENSEMBLE 18-24

RELATIVISTIC COMPTON SCATTERING FROM MOVING ELECTRONS AND ANGULAR MOMENTS 18-40

PLASMA HEATING BY RELATIVISTIC ELECTRON BEAMS PART 2 RETURN CURRENT INTERACTION 20-117

RELATIVISTIC LINEAR THEORY IN THE ABSENCE OF EXTERNAL FIELDS 20-131

RELATIVISTIC PLASMA DISPERSION FUNCTION 20-132

ION ACCELERATION BY THE RELATIVISTIC TWO STREAM INSTABILITY 20-59

LINEAR THEORY OF A COLD RELATIVISTIC BEAM PROPAGATING ALONG AN EXTERNAL MAGNETIC FIELD 20-85

RELATIVISTIC HYDRODYNAMIC THEORY OF HEAVY ION COLLISIONS 25-195

RELATIVISTIC SECOND ORDER ENERGY FUNCTIONAL FOR FINITE FERMION SYSTEMS 25-196

RELATIVISTIC SECOND ORDER ENERGY IN INFINITE FERMION MATTER 25-197

RELATIVISTIC ROTATION OF AXES UNDER SUCCESSIVE LORENTZ TRANSFORMATIONS 27-15

RELAXATION
SPIN LATTICE RELAXATION IN AN AM(XN) SYSTEM. APPLICATION TO CARBON-13 RELAXATION IN ENRICHED MOLECULES 14-11

RELAXED
CARBON-13 PARTIALLY RELAXED FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF ORGANOCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON-13 14-5

RELEASE
VLF RADIO PHENOMENA FOLLOWING A BARIUM SHAPED CHARGE RELEASE AT L APPROXIMATELY EQUALS 6.5 1-32

IODINE-131 RELEASE FROM AN HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) DURING THE LOFC (LOSS OF COOLANT) ACCIDENT. 17-30

PLUTONIUM RELEASE RATES FROM PLUTONIUM-238 FUELS EXPOSED TO AQUATIC ENVIRONMENTS 17-42

RELEASE OF PLUTONIUM TO THE ATMOSPHERE 17-49

HELIUM RELEASE OF PLUTONIA-238/MOLYBDENUM CERMET FUEL 23-26

RELEASED
SLOWING-IN DISTRIBUTION OF FAST PARTICLES RELEASED IN MAXWELLIAN PLASMA. 10-125

RELEVANCE
INCREASING THE RELEVANCE OF DATA PRESENTED TO THE OPERATORS IN AN ACCELERATOR CONTROL SYSTEM. 22-19

RELEVANCE OF NUCLIDE MIGRATION AT OKLO TO THE PROBLEM OF GEOLOGIC STORAGE OF RADIOACTIVE WASTE. 30-78

RELIABILITY
RELIABILITY ENGINEERING FOR FACILITY EFFECTIVENESS. 13-14

BAYESIAN RELIABILITY ESTIMATION: STATE OF THE ART FOR THE TIME DEPENDENT CASE. 21-10

RELIC
ENERGY DENSITY OF THE RELIC RADIATION. 1-7

REMARKS
CELL CYCLE ANALYSIS: OPENING REMARKS. 5-21

CHAIRMAN'S CLOSING REMARKS, SESSION V: THE CELL SURFACE. 5-35

CHAIRMAN'S REMARKS, SESSION V: THE CELL SURFACE. 5-36

REMARKS ON SOME EXCEPTIONS TO THE ENGEL-BREWER RULES. 9-22

REMMETER
ENERGY DEPENDENCE OF FOUR NEUTRON REMMETER INSTRUMENTS. 17-18

REMNANT
SUPERNOVA REMNANT W44: A GALACTIC GRAVIMETER. 3-44

W44: A BUOYANT SUPERNOVA REMNANT. 3-46

CALCULATION OF SNR (SUPERNOVA REMNANT) INTERACTION. 3-6

REMNANTS
DISTRIBUTION OF SUPERNOVA REMNANTS IN THE GALAXY. EVIDENCE FOR A TUNNEL SYSTEM 3-13

SUGGESTED OBSERVATIONS OF SUPERNOVA REMNANTS IN THE LARGE MAGELLANIC CLOUD 3-43

REMOTE
RADIOACTIVITY, RADIATION DAMAGE, AND REMOTE HANDLING. 13-13

REMOTE TRANSIENT DATA ACQUISITION SYSTEM 21-69

MASSIVE SHIELDING ADAPTED TO REMOTE MAINTENANCE METHODS. 22-26

MONITOR - A VERSATILE REMOTE HANDLING SYSTEM. 22-32

REMOVAL
FAST PION INDUCED PROCESSES IN COMPLEX NUCLEI: CROSS SECTION AND ALPHA REMOVAL. 25-79

RENEWAL
ASYMPTOTIC FORM OF PARTITION FUNCTIONS OF LINEAR CHAIN MOLECULES: AN APPLICATION OF RENEWAL THEORY. 4-3

REPLICATE
MODIFIED REPLICATE PLATING TECHNIQUE FOR USE IN SOMATIC CELL MUTANT SELECTION 5-102

REPLICATION
SEQUENTIAL BIOCHEMICAL EVENTS IN PREPARATION FOR DNA REPLICATION AND MITOSIS. 5-130

REPLICON
EVIDENCE THAT X IRRADIATION INHIBITS DNA REPLICON INITIATION IN CHINESE HAMSTER CELLS 5-62

REPLY
REPLY TO NOTE BY A. FABIAN. 3-38

MAGMA CONTAMINATION WITHIN THE VOLCANIC PILE: ORIGIN OF ANDESITE AND DACITE: COMMENT AND REPLY. 11-26

MESON - THEORETIC POTENTIALS AND THE HYPERTRITON: A REPLY. 22-31

REPORT
ANNUAL REPORT, SEROLOGIC TEST DEVELOPMENT, JULY 1, 1973 THROUGH JUNE 30, 1974. 5-3

H-DIVISION PROGRESS REPORT 20 MAY 1949 -20 JUNE 1949 5-70

H-DIVISION PROGRESS REPORT, 20 JULY 1949 - 20 AUGUST 1949. 5-71

H-DIVISION PROGRESS REPORT 20 JUNE 1949 - 20 JULY 1949. 5-72

HEALTH DIVISION ANNUAL REPORT 1952. 5-73

PROGRESS REPORT, USERDA-DAT DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JULY 1 THROUGH SEPTEMBER 30, 1974. 8-38

REPORT OF THE AD HOC COMMITTEE ON FUSION PLASMA RESEARCH FACILITIES. 10-112

APPLICATION OF SENSITIVITY ANALYSIS TO A QUANTITATIVE ASSESSMENT OF NEUTRON CROSS SECTION REQUIREMENTS FOR THE TFTR (TOKAMAK FUSION TEST REACTOR): AN INTERIM REPORT. 10-2

INTEGRATED SOLAR ENERGY COLLECTOR FINAL SUMMARY REPORT. 12-11

PRELIMINARY REPORT ON LOCAL IMPACT MODEL. 12-15

PROGRESS REPORT, RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES FOR THE PERIOD JULY 1 TO SEPTEMBER 30, 1974. 12-16

E DIVISION QUARTERLY STATUS REPORT, JUNE 1 - AUGUST 31, 1975. 13-4

EVALUATION OF METHODS FOR THE DETERMINATION OF MERCURY. LASL PROJECT R-060 QUARTERLY REPORT, APRIL 1 THROUGH JUNE 30, 1972. 17-27

PROGRESS REPORT, ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JULY 1 THROUGH SEPTEMBER 30, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-45

PROGRESS REPORT, RESPIRATOR STUDIES FOR THE AEC DIRECTORATE OF REGULATORY STANDARDS, JANUARY 1 THROUGH JUNE 30, 1974. 17-46

STATUS REPORT, LASER FUSION TARGET FABRICATION, 30 APRIL 1974. 20-139

PROGRESS REPORT, RESEARCH ON CARBON -ALUMINUM COMPOSITES AUGUST 1 - DECEMBER 31, 1974. 22-43

QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1975. 22-47

QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1974 22-48

PROGRESS REPORT RESEARCH ON CARBON -ALUMINUM COMPOSITES, SEPTEMBER 1, 1973-JANUARY 31, 1974 23-47

SPECIAL REPORT PRESENTED AT JULY MEETING WITH C A THOMAS ON FINAL PURIFICATION AND METALLURGY OF 49 23-53

SPECIAL REPORT PRESENTED AT MAY MEETING WITH C A THOMAS ON FINAL PURIFICATION AND METALLURGY OF 49 23-54

THERMAL AND OTHER PROPERTIES OF REFRACTORIES TECHNICAL REPORT PROGRAM NO R056 23-58

THERMODYNAMIC PROPERTIES OF PLUTONIUM HEXAFLUORIDE A PRELIMINARY REPORT 23-59

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT, OCTOBER 1 THROUGH DECEMBER 31, 1974 25-13

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT PROGRAM STATUS REPORT JANUARY - APRIL 1975 26-17

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT PROGRAM STATUS REPORT SEPTEMBER DECEMBER 1974 26-18

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT PROGRAM STATUS REPORT SEPTEMBER DECEMBER 1972 26-19

POSTIRRADIATION RESULTS AND EVALUATION OF SODIUM BONDED URANIUM PLUTONIUM CARBIDE FUEL ELEMENTS IRRADIATED IN EBR-II INTERIM REPORT 28-27

PRELIMINARY REPORT STUDY OF FAST REACTOR SAFETY TEST FACILITIES 28-28

PRELIMINARY TOPICAL REPORT ON COMPARISON REACTOR DISASSEMBLY CALCULATIONS. 28-29

QUARTERLY REPORT, EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT IRRADIATION TESTS, JANUARY 1 THROUGH MARCH 31, 1975 28-32

QUARTERLY REPORT EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS OCTOBER 1 THROUGH DECEMBER 31, 1974 28-33

QUARTERLY REPORT, HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, OCTOBER THROUGH DECEMBER 1974 28-34

QUARTERLY REPORT, TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, OCTOBER 1 THROUGH DECEMBER 31, 1974 28-35

CINDER-7: AN INTERIM REPORT FOR USERS. 28-5

CONCEPTUAL DESIGN FOR A FAST REACTOR SAFETY TEST FACILITY PRELIMINARY REPORT 28-7

E DIVISION QUARTERLY STATUS REPORT, MARCH 1 - MAY 31, 1975 30-19

LASL PANEL ON TACTICAL NUCLEAR WARFARE. REPORT OF THE THIRD MEETING, MAY 14-15, 1974. 30-39

MONTHLY STATUS REPORT OF LASL ROVER PROGRAM FOR PERIOD ENDING DECEMBER 20, 1962. 30-50

P DIVISION PROGRESS REPORT, 20 JUNE 1948 - 20 JULY 1948. 30-56

QUARTERLY PROGRESS REPORT OF LASL ROVER PROGRAM FOR THE PERIOD ENDING NOVEMBER 30, 1972. 30-69

QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENDING JULY 31, 1967. 30-70

QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC R AND D PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1969. PART 2. 30-71

RADIOCHEMICAL MEASUREMENTS ON KIWI-A PRIME. SUMMARY REPORT. 30-73

SPACE ELECTRIC POWER R AND D PROGRAM, QUARTERLY STATUS REPORT FOR THE PERIOD ENDING APRIL 30, 1969. 30-85

STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR FOUR MONTH PERIOD ENDING JULY 20, 1952. 30-86

REPRESENTATION
ALGORITHMS TO REVEAL THE REPRESENTATION OF CHARACTERS, INTEGERS AND FLOATING POINT NUMBERS. 21-2

REPRESENTATIONS
REPRESENTATIONS OF A LOCAL CURRENT ALGEBRA: THEIR DYNAMICAL DETERMINATION. 21-70

APPROXIMATE REPRESENTATIONS OF A LOCAL CURRENT ALGEBRA. 21-8

REPULSION
CHARGE ASYMMETRY EFFECTS AND THE TRINUCLEON BINDING ENERGY. 2. INCLUSION OF THE TENSOR FORCE AND SINGLET REPULSION. 25-27

RESEARCH
CONTROLLED FUSION RESEARCH HIGHLIGHTS OF THE TOKYO IAEA CONFERENCE AND SUBSEQUENT DEVELOPMENTS 10-11

REPORT OF THE AD HOC COMMITTEE ON FUSION PLASMA RESEARCH FACILITIES 10-112

CONTROLLED THERMONUCLEAR RESEARCH AT THE LOS ALAMOS SCIENTIFIC LABORATORY 10-12

SYMBOLIC COMPUTATION IN CONTROLLED THERMONUCLEAR RESEARCH 10-142

NPECT A MONTE CARLO PROGRAM TO PREDICT THE EXPECTED TIME TO NEXT FAILURE IN CONTROLLED THERMONUCLEAR RESEARCH SYSTEMS 10-156

LASL CONTROLLED THERMONUCLEAR RESEARCH PROGRAM JANUARY DECEMBER 1974 10-70

SOLID EARTH GEOSCIENCES RESEARCH ACTIVITIES AT LASL JANUARY 1 JUNE 30, 1975 11-53

SOLID EARTH GEOSCIENCES RESEARCH ACTIVITIES AT LASL JULY 1 DECEMBER 31, 1974 11-54

IMBALANCES IN FEDERAL FUNDING OF ENERGY RESEARCH AND DEVELOPMENT 12-10

PROGRESS REPORT RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES FOR THE PERIOD JULY 1 TO SEPTEMBER 30, 1974 12-16

RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES 12-17

AEROSOL RESEARCH AND DEVELOPMENT RELATED TO HEALTH HAZARD ANALYSIS LASL PROJECT R/08 APRIL 1 THROUGH JUNE 30 1972 17-1

SAFETY CONSIDERATIONS IN THE LASER RESEARCH PROGRAM AT THE LOS ALAMOS SCIENTIFIC LABORATORY 17-51

STATUS OF LASER FUSION RESEARCH 20-148

APPLIED MATHEMATICS RESEARCH AND VISITOR PROGRAM. JULY 1, 1974 JUNE 30, 1975 22-7

PROGRESS REPORT RESEARCH ON CARBON ALUMINUM COMPOSITES AUGUST 1 DECEMBER 31 1974 22-44

PROGRESS REPORT RESEARCH ON CARBON ALUMINUM COMPOSITES. SEPTEMBER 1 1973 JANUARY 31 1974 23-47

RESEARCH AND DEVELOPMENT ON GRAPHITE AND GRAPHITE MATRIX COMPOSITES AT LASL 23-49

RESEARCH ON CARBON ALUMINUM COMPOSITES. JANUARY 1 JUNE 30, 1975 23-50

RESEARCH PROGRAM ON PLASMA CORE ASSEMBLY 24-19

MONTE CARLO STUDIES OF TARGET MODERATOR CONFIGURATIONS FOR THE WEAPONS NEUTRON RESEARCH FACILITY 25-121

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT OCTOBER 1 THROUGH DECEMBER 31, 1974 25-13

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT. APRIL 1 - JUNE 30, 1975 25-14

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT. JANUARY 1 - MARCH 31 1975 25-15

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT. JULY 1 - SEPTEMBER 30, 175 25-16

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT. PROGRAM STATUS REPORT. JANUARY APRIL 1975 26-17

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT. PROGRAM STATUS REPORT, SEPTEMBER - DECEMBER 1974. 26-18

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT PROGRAM STATUS REPORT, SEPTEMBER -DECEMBER 1972 26-19

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM. JANUARY THROUGH MARCH 1975. 28-18

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM. APRIL JUNE 1975 28-19

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM. JULY SEPTEMBER 1975. 28-20

QUARTERLY REPORT. HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, OCTOBER THROUGH DECEMBER 1974. 28-34

PROPOSAL TO DESIGNATE CERTAIN LAND AREAS OF THE LOS ALAMOS SCIENTIFIC LABORATORY AS A NATIONAL ENVIRONMENTAL RESEARCH PARK. 30-66

PUBLICATIONS OF LASL RESEARCH 1974. 30-68

RESERVES
WORLD ENERGY RESERVES AND CONSUMPTION [illegible]

RESERVOIR
FORCED OSCILLATIONS OF THE LOS ALAMOS SCIENTIFIC LABORATORY S (HC) HOT ROCK GEOTHERMAL RESERVOIR 11-17

GEOTHERMAL RESERVOIR MODELS CRACK PLANE MODEL 11-23

RESERVOIRS
MAN MADE GEOTHERMAL RESERVOIRS 11-27

STATIONARY NON EQUILIBRIUM PROPERTIES OF A QUANTUM MECHANICAL LATTICE WITH SELF CONSISTENT RESERVOIRS 27-16

STATIONARY NONEQUILIBRIUM PROPERTIES OF A QUANTUM MECHANICAL LATTICE WITH SELF CONSISTENT RESERVOIRS 27-17

DISORDERED HARMONIC CHAIN WITH SELF CONSISTENT RESERVOIRS 27-6

RESIDUAL
RECOVERY RATE AND RESIDUAL INJURY IN MONKEYS EXPOSED TO LARGE DOSES OF RADIATION BY FRACTIONATION 5-125

EXISTENCE OF A RESIDUAL NUCLEAR PROTEIN MATRIX IN CULTURED CHINESE HAMSTER CELLS 5-64

INVESTIGATION OF THE TWO COMPONENT RADIATION INJURY CONCEPT USING EQUIVALENT RESIDUAL DOSE FACTORS 5-83

ANGULAR MOMENTUM EFFECTS IN THE SPECTRA OF RESIDUAL NUCLEI 25-12

EFFECTS OF PION MULTIPLE SCATTERING ON THE DISTRIBUTION OF RESIDUAL NUCLEI 25-55

RESIN
EVALUATION OF PRE IMPREGNATED RESIN GLASS SYSTEMS FOR INSULATING SUPERCONDUCTING MAGNETS 8-16

RESISTANCE
INFLUENCE OF STANDING WAVE FIELDS ON THE LASER DAMAGE RESISTANCE OF DIELECTRIC FILMS 20-56

IMPROVEMENT IN OXIDATION RESISTANCE OF THE LEADING EDGE THERMAL PROTECTION FOR A SPACE SHUTTLE 23-30

RESISTIVITY
ENHANCED WEAK FIELD ELECTRICAL RESISTIVITY OF A PARAMETRICALLY UNSTABLE PLASMA 10-32

RESOLUTION
PHOTOSYNTHETIC STUDIES WITH A 10 PSEC RESOLUTION STREAK CAMERA 5-111

HIGH ANGULAR RESOLUTION SECONDARY ELECTRON SPECTROSCOPY KIKUCHI CORRELATIONS FOR ARSENIC (0001) 9-11

HIGH RESOLUTION Q BRANCH SPECTRUM FOR CARBON DIOXIDE AT 618 MILLIMETERS 20-49

CANONICAL RESOLUTION OF THE MULTIPLICITY PROBLEM FOR U(3) AN EXPLICIT AND COMPLETE CONSTRUCTIVE SOLUTION 21-15

EFFICIENCY AND POSITION RESOLUTION OF TWO DIMENSIONAL POSITION SENSITIVE MULTIWIRE PROPORTION COUNTERS 22-12

ACTIVE CORRECTIVE ELEMENT FOR HIGH RESOLUTION MAGNETIC OPTICS. 22-2

RESOLVED
TIME RESOLVED OUTPUT SPECTRUM FROM A HYDROGEN FLUORIDE LASER USING MIXTURES OF SULFUR HEXAFLUORIDE AND HYDROGEN IODIDE. 20-156

RESONANCE
ON THE (NU(1)-2NU(2)) FERMI RESONANCE LEVELS IN CARBON DIOXIDE 4-45

NUCLEAR MAGNETIC RESONANCE OF ROTATIONAL MOBILITY OF MOUSE HEMOGLOBIN LABELED WITH (2- CARBON -13) HISTIDINE. 5-106

CARBON -13 FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE STUDIES OF FRACTIONATED CANDIDA UTILIS MEMBRANES. 5-17

FOURIER TRANSFORM CARBON -13 MAGNETIC RESONANCE OF AQUEOUS NICKELII - ACETIC ACID SOLUTIONS. 2. LIGAND SUBSTITUTION PROCESSES. 7-7

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13: THE EFFECT OF TEMPERATURE AND LIGHT. 14-1

QUANTITATIVE ANALYSIS OF CARBON - CARBON COUPLING IN THE CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF MOLECULES BIOSYNTHESIZED FROM CARBON -13 ENRICHED PRECURSORS. 14-10

STRUCTURE AND HINDERED MOTION OF BORON (3) HYDROGEN(8) ANIONS IN SOLIDS: AN NMR (NUCLEAR MAGNETIC RESONANCE) STUDY 14-12

STRUCTURE AND MOTION OF B3H8- ANIONS IN SOLIDS: A BORON AND PROTON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY. 14-13

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF (2- CARBON -13) CARBOXYMETHYL)CYTOCHROME C 14-2

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF WHOLE CELLS AND OF CYTOCHROME C FROM NEUROSPORA CRASSA GROWN WITH CARBON -13 METHIONINE 14-3

CARBON -13 NUCLEAR MAGNETIC RESONANCE STUDIES OF ADENOSYLCOBALAMIN AND ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13 14-4

CARBON -13 PARTIALLY RELAXED FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF ORGANOCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13. 14-5

FOURIER TRANSFORM CARBON -13 NUCLEAR MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS -1. EQUILIBRIUM QUOTIENTS FROM RELATIVE ABUNDANCES OF SOLUTION SPECIES. 14-7

INDUCED PARAMAGNETISM IN URANIUM ALLOYS- A BORON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY OF ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND YTTRIUM TETRABORIDE. 14-8

KINETIC PARAMETERS OF CARBONIC ANHYDRASE E BY CARBON -13 NUCLEAR MAGNETIC RESONANCE 14-9

OBSERVATION OF THE E2 NUCLEAR RESONANCE EFFECT IN PIONIC CADMIUM -112 22-34

QUASI-ELASTIC PION SCATTERING IN THE (3,3) RESONANCE REGION. 25-189

HADRONIC ATOMS AND TICKLISH NUCLEI- THE E2 NUCLEAR RESONANCE EFFECT 25-88

HADRONIC ATOMS AND TICKLISH NUCLEI- THE E2 NUCLEAR RESONANCE EFFECT 25-89

RESONANCE AUTOCATALYSIS 30-79

RESONANCES
NUCLEAR RESONANCES IN HADRONIC ATOMS. 4-43

DIFFERENTIAL NUCLEAR OVERHAUSER ENHANCEMENT FOR CARBON -13 SINGLET AND CARBON -13 - CARBON -13 MULTIPLET RESONANCES OF A CARBOXYL CARBON. 14-6

EQUAL AREA PHOPERTY OF NARROW RESONANCES INDUCED IN COUPLED DOPPLER BROADENED SYSTEMS BY INTENSE LASER RADIATION. 20-40

SPIN DETERMINATION OF RESONANCES IN URANIUM -235. 25-209

EXPERIMENTAL EVIDENCE FOR THE EXISTENCE OF THE CHARGE EXCHANGE MODE OF GIANT RESONANCES. 25-74

FAST NUCLEON CAPTURE AS A METHOD FOR INVESTIGATION OF GIANT QUADRUPOLE RESONANCES. 25-78

RESONANT
RESONANT LINE AND SATELLITE SPECTRA FROM ONE, TWO, AND THREE ELECTRON IONS IN LASER GENERATED PLASMAS. 4-57

RESONANT HEATING EXPERIMENT. 10-113

THEORY AND SIMULATION OF RESONANT ABSORPTION IN A HOT PLASMA. 20-152

ANALOG COMPUTER FOR CALCULATING THE SHUNT IMPEDANCE OF A RESONANT CAVITY. 21-4

RESONATOR
FIELD DISTRIBUTIONS IN A SPIRAL RESONATOR. 10-38

OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT. 3. ASYMMETRIC CONFOCAL RESONATOR. 20-109

RESONATORS
DESIGN STUDIES OF HEAVY ION LINEAR ACCELERATORS CONSTRUCTED OF INDEPENDENTLY PHASED SPIRAL RESONATORS. 27-3

RESOURCE
ENVIRONMENTAL ISSUES RELATED TO ENERGY RESOURCE DEVELOPMENT IN NEW MEXICO. 17-23

RESPIRATOR
PROGRESS REPORT. RESPIRATOR STUDIES FOR THE AEC DIRECTORATE OF REGULATORY STANDARDS, JANUARY 1 THROUGH JUNE 30, 1974. 17-46

RESPIRATORS
INVESTIGATION OF PERFORMANCE OF US ARMY FILTER CANISTERS AND RESPIRATORS EQUIPPED WITH PROTOTYPE FACEPIECES. 17-29

RESPIRATORY
RESPIRATORY PROTECTION: OSHA AND THE SMALL BUSINESSMAN. 17-50

RESPONSE
RESPONSE OF THE PLASMA SHEET AT APPROXIMATELY 18 EARTH RADII TO SUDDEN SOUTHWARD TURNINGS OF THE INTERPLANETARY MAGNETIC FIELD. 1-23

AGE RESPONSE FOR LINE CHO CHINESE HAMSTER CELLS EXPOSED TO X IRRADIATION AND ALPHA PARTICLES FROM PLUTONIUM. 5-1

INITIAL COMPARATIVE RESPONSE OF EXPERIMENTAL TUMORS TO PEAK PIONS AND X RAYS. 5-81

LUNG RESPONSE TO LOCALIZED IRRADIATION FROM PLUTONIUM MICROSPHERES. 5-94

ENERGY RESPONSE OF TLD BADGES LOCATED ON PERSONNEL. 17-19

RESPONSE OF IRON TO DYNAMIC COMPRESSION. 23-51

ELASTICITY IN THE RESPONSE OF NUCLEI. 25-60

PROPOSAL FOR ANALYSIS OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) CORE RESPONSE TO SEISMIC INPUT. 28-31

RESPONSES
COMPARISON OF COPPER AND GOLD ORE RESPONSES TO NEUTRON CAPTURE AND DECAY GAMMA RAY TECHNIQUES WITH CALIFORNIUM -252. 25-33

RESTORATION
HYBRID DIGITAL/OPTICAL SYSTEMS FOR NONLINEAR IMAGE RESTORATION. 21-40

USE OF INTERMEDIATE HEAT TREATMENTS FOR THE RESTORATION OF THE NOTCH RUPTURE PROPERTIES OF INCONEL 718. 23-61

RETENTION
RETENTION AND EXCRETION OF COBALT -60 IN MICE, RATS, MONKEYS, AND DOGS 5-128

COMPARATIVE METABOLISM OF RADIONUCLIDES IN MAMMALS. 9. RETENTION OF SELENIUM -75 IN THE MOUSE, RAT, MONKEY, AND DOG. 5-43

RETURN
PLASMA HEATING BY RELATIVISTIC ELECTRON BEAMS PART 2. RETURN CURRENT INTERACTION. 20-117

REVERSED
STABILITY AND DIFFUSION OF THE ZT-1 REVERSED FIELD PINCH. 10-130

STABILITY OF THE REVERSED FIELD PINCH CONFIGURATION TO LOCALIZED PERTURBATIONS. 10-136

ION TEMPERATURE MEASUREMENTS ON THE ZT-1 REVERSED FIELD PINCH. 10-66

LASL REVERSED FIELD PINCH PROGRAM PLAN. 10-71

REVERSIBLE
REVERSIBLE SULFUR DIOXIDE ADDITION TO COPPER(I) PHOSPHINE COMPLEXES. 7-17

REVERSIBLE ENERGY TRANSFER BETWEEN INDUCTANCES. 8-41

REVIEW
PIONS AND HEAVY IONS IN RADIOTHERAPY: A BRIEF REVIEW. 5-113

REVIEW OF TOROIDAL THETA PINCH THEORY. 10-115

REVIEW OF GEOTHERMAL WELL TECHNOLOGY AND THE POTENTIAL APPLICATIONS OF SUBTERRENE ROCK MELTING DEVICES. 11-46

REVIEW OF AVAILABLE TECHNOLOGY FOR NARROW BAND TRANSMISSION OF VISUAL MATERIAL. 13-15

REVIEW OF SOFT X RAY LASERS USING CHARGE EXCHANGE. 20-133

DISPERSIVE TEMPORAL COMPRESSION OF THE ENERGY IN LASER PULSES: A REVIEW. 20-28

BOOK REVIEW: APPLICABLE FINITE MATHEMATICS, BY D. S. MOORE AND J. W. YACKEL. 21-14

PRESTRESSED CONCRETE REACTOR VESSELS: REVIEW OF DESIGN AND FAILURE CRITERIA. 28-30

REVIEW OF FUEL ELEMENT DEVELOPMENT FOR NUCLEAR ROCKET ENGINES. 30-80

REVISITED
COMPUTER HOLOGRAMS REVISITED. 21-20

RF
SHORT RANGE RADIO TELEMETRY FOR ELECTRONIC IDENTIFICATION USING MODULATED RF BACKSCATTER. 19-18

RHENIUM
REDUCTIVE SYNTHESES OF TRANSITION METAL FLUORIDE COMPOUNDS. THE SYNTHESIS OF RHENIUM, OSMIUM AND IRIDIUM PENTAFLUORIDES AND TETRAFLUORIDES. 7-16

FRACTURE BEHAVIOR OF A PLATINUM(30 PERCENT) RHENIUM(8 PERCENT) TUNGSTEN ALLOY BETWEEN ROOM TEMPERATURE AND 1300 DEGREES CELSIUS. 23-22

RHODIUM
CRYSTAL AND MOLECULAR STRUCTURE OF CHLOROBIS (3-BUTENYLDIPHENYLPHOSPHINO) RHODIUM(I). 9-6

RIBOSOMES
COMPOSITIONAL AND FUNCTIONAL RELATIONSHIP OF SUBRIBOSOMAL PARTICLES TO RIBOSOMES AND POLYSOMES. 5-45

RICE
RICE: A COMPUTER PROGRAM FOR MULTICOMPONENT CHEMICALLY REACTIVE FLOWS AT ALL SPEEDS. 18-41

RICHTERITE
PHASE EQUILIBRIA OF RICHTERITE AND FERRORICHTERITE. 11-40

RIFT
SEISMICITY OF THE NORTHERN RIO GRANDE RIFT ZONE, NEW MEXICO. 11-50

RIGIDITY
EFFECT OF RIGIDITY ON SHOCK WAVES IN SOLIDS. 15-7

RING
HUGONIOT DATA FOR SEVERAL BENZENE RING LIQUIDS. 18-18

BEAM EMITTANCE GROWTH IN A PROTON STORAGE RING EMPLOYING CHARGE EXCHANGE INJECTION 22-4

RIO
SEISMICITY OF THE NORTHERN RIO GRANDE RIFT ZONE, NEW MEXICO. 11-50

RNA
RNA SYNTHESIS IN CHINESE HAMSTER CELLS. 3. NON-COORDINATE INCREASES DURING INTERPHASE IN SYNTHESIS RATES FOR INFORMOSOMAL, POLYSOMAL, AND HETEROGENEOUS NUCLEAR RNAS. 5-129

ROAMING
LICHEN FORAGE INGESTION RATES OF FREE ROAMING CARIBOU ESTIMATED WITH FALLOUT CESIUM -137. 30-42

ROCHESTER
OPTICAL METHODS IN ENERGY CONVERSION, SPIE SEMINAR IN DEPTH, ROCHESTER, 23-25 JUNE 1975. 20-110

ROCK
CURRENT STATUS OF THE LOS ALAMOS DRY HOT ROCK GEOTHERMAL ENERGY EXPERIMENT. 11-10

DRY HOT ROCK SYSTEMS. 11-13

FORCED OSCILLATIONS OF THE LOS ALAMOS SCIENTIFIC LABORATORY'S DRY HOT ROCK GEOTHERMAL RESERVOIR. 11-17

GEOTHERMAL ENERGY: HOT DRY ROCK TECHNOLOGY. 11-22

PETROGRAPHY AND CHEMISTRY OF MINERALS AND GLASS IN ROCKS PARTIALLY FUSED BY ROCK MELTING DRILLS. 11-38

APPARATUS AND METHOD FOR LARGE TUNNEL EXCAVATION IN HARD ROCK. 11-4

PROGRESS OF THE LASL DRY HOT ROCK GEOTHERMAL ENERGY PROJECT. 11-42

RAPID EXCAVATION BY ROCK ING. 11-45

REVIEW OF GEOTHERMAL WELL TECHNOLOGY AND THE POTENTIAL APPLICATIONS OF SUBTERRENE ROCK MELTING DEVICES. 11-46

ROCK MELTING HOLE PRODUCTION SYSTEMS FOR EXPLORATORY AND PRODUCTION GEOTHERMAL ENERGY WELLS. 11-47

ROCK MELTING TECHNOLOGY AND GEOTHERMAL DRILLING. 11-48

CHARACTERIZATION OF ROCK MELTS AND GLASSES FORMED BY EARTH MELTING SUBTERRENES. 11-6

VISCOUS MELT FLOW AND THERMAL ENERGY TRANSFER FOR A ROCK MELTING PENETRATOR: LITHOTHERMODYNAMICS. 11-61

ROCK-BIN
DESIGN CONSIDERATIONS OF AIR COOLED COLLECTOR/ROCK-BIN STORAGE SOLAR HEATING SYSTEMS. 12-4

ROCKET
GRAPHITIC FUELS FOR THE NUCLEAR ROCKET ENGINE. 28-16

REVIEW OF FUEL ELEMENT DEVELOPMENT FOR NUCLEAR ROCKET ENGINES. 30-80

ROCKS
DETERMINATION OF PERMEABILITY OF GRANITIC ROCKS IN GT-2 FROM HYDRAULIC FRACTURING DATA. 11-12

PETROGRAPHY AND CHEMISTRY OF MINERALS AND GLASS IN ROCKS PARTIALLY FUSED BY ROCK MELTING DRILLS. 11-38

ROCKY
ROCKY MOUNTAIN ENERGY 1974: FLOWS, EMPLOYMENT, PRICES. 12-18

ROCKY MOUNTAIN ENERGY FLOW PATTERNS. 12-19

RODS
NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL RODS. 26-12

CALIFORNIUM -252 NEUTRON SOURCE SYSTEMS FOR THE ASSAY OF URANIUM AND PLUTONIUM IN FUEL RODS. 26-3

EUROPIA HEATING IN CONTROL RODS. 28-10

ROLE
IMPACT OF ELECTRONIC IDENTIFICATION AND DISEASE DETECTION ON THE ROLE OF THE VETERINARIAN. 5-77

ROLE OF FAST DISCHARGING HOMOPOLAR MACHINES IN FUSION DEVICES 10-116

ROLE OF TWO NUCLEON SHORT RANGE CORRELATIONS IN PION CHARGE EXCHANGE REACTIONS WITH NUCLEI 25-198

ROLE OF THE SMALL ACCELERATOR IN THE NONDESTRUCTIVE ASSAY LABORATORY. 26-24

NUCLEAR WEAPONS, THEIR ROLE IN U. S. POLITICAL AND MILITARY POSTURE, AND AN EXAMPLE. 9-52

ROOF
PROGRESS REPORT RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES FOR THE PERIOD JULY 1 TO SEPTEMBER 30, 1974 12-16

RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES 12-17

ROOM
BIBLIOGRAPHY OF CHEMISTRY AND METALLURGY DOCUMENTS RECEIVED BY THE LOS ALAMOS DOCUMENT ROOM IN THE PERIOD JANUARY 1, 1947 TO JANUARY 1, 1948 23-2

FRACTURE BEHAVIOR OF A PLATINUM(30 PERCENT) RHENIUM(8 PERCENT) TUNGSTEN ALLOY BETWEEN ROOM TEMPERATURE AND 1300 DEGREES CELSIUS. 23-22

ROOTS
ON THE ROOTS OF X(M)+-1 IN THE P-ADIC FIELD Q(P). 21-61

ROSEN
COMPARISON OF THE LANGER, ROSEN, NOLAN-POLLAK, AND SANDS CONDENSATION NUCLEUS COUNTERS. 1-1

ROTARY
DESIGN FOR A ROTARY REACTIVITY CONTROL FOR A TEST REACTOR. 28-9

ROTATING
PILOT MODEL: INDUCTION HEATED ROTATING FLUIDIZED BED. 30-61

ROTATION
MEASUREMENT OF FARADAY ROTATION IN IHX. 10-79

RELATIVISTIC ROTATION OF AXES UNDER SUCCESSIVE LORENTZ TRANSFORMATIONS. 27-15

ROTATIONAL
NUCLEAR MAGNETIC RESONANCE OF ROTATIONAL MOBILITY OF MOUSE HEMOGLOBIN LABELED WITH (2- CARBON -13) HISTIDINE 5-106

ROTATIONAL TEMPERATURE IN A HIGH PRESSURE PULSED CARBON DIOXIDE LASER. 20-134

TIME DEPENDENCE OF ROTATIONAL TEMPERATURE IN A HIGH PRESSURE PULSED CARBON DIOXIDE LASER. 20-155

ROVER
ROVER SHIPPING CASK. 13-16

AUTOMATED NONDESTRUCTIVE ASSAY SYSTEM FOR THE MEASUREMENT OF IRRADIATED ROVER FUEL. 26-2

CRITICAL ASSEMBLY MOCKUP STUDIES OF THE PHOEBUS-2 ROVER REACTOR. 30-15

EXTRACTION OF FISSION PRODUCTS FROM ROVER FUEL ELEMENTS. 30-26

FEASIBILITY STUDY OF THE DISPOSAL OF A ROVER REACTOR WITH HIGH EXPLOSIVES. 30-28

MONTHLY STATUS REPORT OF LASL ROVER PROGRAM FOR PERIOD ENDING DECEMBER 20, 1962. 30-50

QUARTERLY PROGRESS REPORT OF LASL ROVER PROGRAM FOR THE PERIOD ENDING NOVEMBER 30, 1972. 30-69

SOME ROVER NEUTRONICS STUDIES. 30-83

RR
CONVECTION IN RR LYRAE STARS. 3-9

RTG
RELATION OF FABRICATION PARAMETERS TO RTG FUEL PROPERTIES. 23-48

RTPR
NUCLEONIC DESIGN SENSITIVITY ANALYSIS FOR THE REFERENCE THETA PINCH REACTOR (RTPR). 10-86

RUBIDIUM
STRONTIUM -82 - RUBIDIUM -82 ISOTOPE GENERATOR FOR USE IN NUCLEAR MEDICINE. 5-138

MEDICAL RADIOISOTOPES FROM LAMPF: STRONTIUM -82 - RUBIDIUM -82 PRODUCTION, RECOVERY, AND BIOMEDICAL GENERATOR. 5-58

INDEPENDENT FISSION YIELDS OF RUBIDIUM AND CESIUM FROM THERMAL NEUTRON INDUCED FISSION OF PLUTONIUM -239 16-6

ON LINE INTERNAL CONVERSION COEFFICIENTS FOR THE DECAYS OF MASS SEPARATED KRYPTON -91 AND RUBIDIUM -91 25-149

PROTON PICKUP FROM STRONTIUM -86 AND THE RUBIDIUM -85 LEVEL STRUCTURE 25-185

RULES
REMARKS ON SOME EXCEPTIONS TO THE ENGEL-BREWER RULES 9-22

RUPTURE
EFFECTS OF SOLUTION AND INTERMEDIATE HEAT TREATMENTS ON THE NOTCH RUPTURE BEHAVIOR OF INCONEL 718. 23-17

USE OF INTERMEDIATE HEAT TREATMENTS FOR THE RESTORATION OF THE NOTCH RUPTURE PROPERTIES OF INCONEL 718. 23-61

RUTHENIUM
STRUCTURE OF PLUTONIUM(5) - RUTHENIUM(3) 9-25

R056
THERMAL AND OTHER PROPERTIES OF REFRACTORIES. TECHNICAL REPORT PROGRAM NO. R056 23-58

S
RATE OF DNA SYNTHESIS DURING S PHASE BY MAMMALIAN CELLS IN VITRO. 5-124

TEMPORAL STRUCTURE OF S PHASE 5-140

BOOK REVIEW: APPLICABLE FINITE MATHEMATICS, BY D. S. MOORE AND J. W. YACKEL 21-14

REACTION CARBON -13 (PI-PLUS, PI-ZERO) NITROGEN -13 (G.S.) FOR E(PI-PLUS) = 40 TO 190 MEV 22-49

U.S. THEORETICAL AND COMPUTATIONAL PROGRAM: TRANSPORT THEORY. 24-21

COMPARISON OF U.S. ALLIED AND SOVIET TACTICAL NUCLEAR FORCE CAPABILITIES AND POLICIES 30-12

NUCLEAR WEAPONS, THEIR ROLE IN U.S. POLITICAL AND MILITARY POSTURE, AND AN EXAMPLE 30-52

SOME U.S. STUDIES OF THE OKLO PHENOMENON 30-84

S-TRIAMINOTRINITROBE
INFLUENCE OF METALS ON THE THERMAL DECOMPOSITION OF S-TRIAMINOTRINITROBENZENE (TATB) 15-15

S-6
SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE II: SOLID PROPELLANT FIRE. 17-52

SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE III: FSA (FUEL SPHERE ASSEMBLY) IMPACTS 17-53

SABKHAT
GEOCHEMICAL IDENTIFICATION OF THE BRINE SORCE OF THE SABKHAT AR-RIYAS, SAUDI ARABIA. 11-18

SAFE
INTRINSICALLY SAFE STRAIN GAGE MONITORING SYSTEM 19-11

SAFEGUARDS
AUTOMATED NONDESTRUCTIVE ASSAY INSTRUMENTATION FOR NUCLEAR MATERIALS SAFEGUARDS 26-1

NONDESTRUCTIVE ASSAY PHYSICAL STANDARDS AND TODAY'S SAFEGUARDS REQUIREMENTS 26-14

RECENT DEVELOPMENTS IN THE DISSOLUTION AND AUTOMATED ANALYSIS OF PLUTONIUM AND URANIUM FOR SAFEGUARDS MEASUREMENTS. 26-23

SAFEGUARDS ASPECTS OF SPENT NUCLEAR FUEL. 26-25

SAFETY
ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES OCTOBER 1 - DECEMBER 31, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-20

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, APRIL 1 - JUNE 30, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS 17-21

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JANUARY 1 - MARCH 31, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-22

EXPERIENCE RELATED TO THE SAFETY OF ADVANCED LMFBR (LIQUID METAL FUELED BREEDER REACTOR) FUEL ELEMENTS. 17-28

PERFORMANCE OF MULTIHUNDRED WATT FUELED SPHERE ASSEMBLIES IN THE SAFETY SEQUENTIAL TEST PROGRAM. 17-35

PROGRESS REPORT, ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JULY 1 THROUGH SEPTEMBER 30, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-45

SAFETY CONSIDERATIONS IN THE LASER RESEARCH PROGRAM AT THE LOS ALAMOS SCIENTIFIC LABORATORY. 17-51

SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE II: SOLID PROPELLANT FIRE. 17-52

SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE III: FSA (FUEL SPHERE ASSEMBLY) IMPACTS. 17-53

SAFETY TEST ON THE STORAGE OF PLUTONIUM TETRAFLUORIDE. 17-54

WASTE MANAGEMENT AND SAFETY CONSIDERATIONS FOR FUTURE LASL D+D (DECONTAMINATION AND DECOMMISSIONING) PROJECTS. 17-62

MULTI-PHASE FLOW METHODS FOR REACTOR SAFETY ANALYSIS. 18-25

TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, JANUARY 1 - MARCH 31, 1975 27-19

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, JANUARY THROUGH MARCH 1975. 28-18

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, APRIL -JUNE 1975 28-19

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, JULY -SEPTEMBER 1975. 28-20

PRELIMINARY REPORT, STUDY OF FAST REACTOR SAFETY TEST FACILITIES. 28-28

QUARTERLY REPORT, HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, OCTOBER THROUGH DECEMBER 1974. 28-34

QUARTERLY REPORT, TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-35

TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, APRIL 1 - JUNE 30, 1975. 28-38

TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, JULY 1 - SEPTEMBER 30, 1975. 28-39

CONCEPTUAL DESIGN FOR A FAST REACTOR SAFETY TEST FACILITY, PRELIMINARY REPORT. 28-7

SAKATA-TAKETANI
BHABHA FIRST ORDER WAVE EQUATIONS. 2. MASS AND SPIN COMPOSITION, HAMILTONIANS, AND GENERAL SAKATA-TAKETANI REDUCTIONS. 25-21

SALT
CHEMICAL EQUILIBRIA IN HOT AIR WITH MOISTURE, SALT, AND VAPORIZED METAL CONTAMINANTS 7-2

SAMPLE
ADJACENT CONDUCTOR FIELD CORRECTIONS TO HIGH CRITICAL CURRENT SHORT SAMPLE MEASUREMENTS. 8-3

MANUAL SAMPLE GRINDER/POLISHER. 19-13

NONDESTRUCTIVE ASSAY OF INVENTORY VERIFICATION SAMPLES AT THE LASL VAN DE GRAAFF SMALL SAMPLE ASSAY STATION. 26-13

SAMPLER
DEVELOPMENT OF A MULTISTAGE AIR SAMPLER FOR MERCURY. 17-12

SAMPLES
RADIOCHEMICAL ANALYTICAL RESULTS OF NAEG (NEVADA APPLIED ECOLOGY GROUP) SAMPLES BY LASL-H7 17-48

TRANSFER TECHNIQUE FOR ELECTRON MICROSCOPY OF MEMBRANE FILTER SAMPLES. 17-60

NEUTRON MEASUREMENTS OF URANIUM -234 ISOTOPIC ABUNDANCE IN URANIUM HEXAFLUORIDE SAMPLES. 26-11

NONDESTRUCTIVE ASSAY OF INVENTORY VERIFICATION SAMPLES AT THE LASL VAN DE GRAAFF SMALL SAMPLE ASSAY STATION. 26-13

SAMPLING
SAMPLING MIXTURES OF SOIL AND CARBON -14 LABELED PLANT MATERIALS. 2-24

DEVELOPMENT OF AIR SAMPLING TECHNIQUES, LASL PROJECT R-059, NIOSH-IA-74-10, APRIL 1 - SEPTEMBER 30, 1974. 17-13

DEVELOPMENT OF SAMPLING AND ANALYTICAL METHODS FOR CARCINOGENS, JULY 1 -DECEMBER 31, 1974. 17-14

ATMOSPHERIC MERCURY SAMPLING MATERIAL AND METHOD. 17-2

EVACUATED REFRIGERANT CONTAINER AS A SOURCE OF VACUUM FOR AIR SAMPLING. 17-26

PERSONAL AIR SAMPLING FOR VAPORS OF ANILINE COMPOUNDS. 17-39

PURPOSES AND FUNCTIONS OF AIR SAMPLING PROGRAMS. 17-47

SAMPLING OF SOILS FOR RADIOACTIVITY: PHILOSOPHY, EXPERIENCE, AND RESULTS. 17-55

CYCLONE SAMPLING OF FIBROUS GLASS AEROSOLS. 17-7

SANDS
COMPARISON OF THE LANGER, ROSEN, NOLAN-POLLAK, AND SANDS CONDENSATION NUCLEUS COUNTERS. 1-1

SANDSTONE
ANALYSIS OF FIREBALL GROWTH AT SANDSTONE. 30-2

SANTA
HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS. 25-94

SAPPHIRE
ELEVATED TEMPERATURE STRENGTHENING OF MELT GROWN SAPPHIRE BY ALLOYING. 23-19

SATELLITE
DISTRIBUTION OF PLASMA SHEET THINNING AND RECOVERY EVENTS IN THE MAGNETOTAIL SURVEYED BY THE IMP-6 SATELLITE. 1-3

RESONANT LINE AND SATELLITE SPECTRA FROM ONE, TWO, AND THREE ELECTRON IONS IN LASER GENERATED PLASMAS. 4-57

SATELLITE LINE SPECTRA FROM LASER PRODUCED PLASMAS. 4-58

ENERGETIC PARTICLE DETECTOR FOR A SYNCHRONOUS SATELLITE. 19-6

SATELLITES
COMPLETE PLASMA DROPOUTS AT VELA SATELLITES DURING THINNING OF THE PLASMA SHEET. 1-2

SATISFYING
DETERMINATION OF ELLIPSES SATISFYING VARIOUS POINT SLOPE CONDITIONS 21-28

SATURATION
CONSEQUENCES OF COUPLING COEFFICIENT SATURATION ON THE NONLINEAR BEHAVIOR OF DECAY INSTABILITIES. 10-10

COUPLING COEFFICIENT SATURATION IN THE NONLINEAR THEORY OF PARAMETRIC INSTABILITIES. 10-14

GAIN RECOVERY AFTER SATURATION IN SHORT PULSE CARBON DIOXIDE AMPLIFIERS. 20-46

SAUDI
GEOCHEMICAL IDENTIFICATION OF THE BRINE SOURCE OF THE SABKHAT AR RIYAS, SAUDI ARABIA. 11-18

SAY
WHAT DO RAPIDITY GAPS SAY ABOUT CLUSTERING 25-230

SCALAR
DIFFUSION OF A PASSIVE SCALAR AT LARGE PRANDTL NUMBER ACCORDING TO THE ABRIDGED LAGRANGIAN INTERACTION THEORY. 18-10

GENERALIZED DIFFUSION THEORY FOR CALCULATING THE NEUTRON TRANSPORT SCALAR FLUX. 24-12

SCALAR BINDING OF QUARKS 25-199

SCALING
SCALING AND EFFICIENT OPERATION OF THE 1720 A XENON LASER. 20-135

STRUCTURE AND SCALING LAWS OF LASER DRIVEN ABLATIVE IMPLOSIONS. 20-144

SCALING OF A BLAST FROM ONE MEDIUM TO ANOTHER. 30-81

SCAN
SCAN AND DISPLAY CONSIDERATIONS IN PROCESSING IMAGES BY DIGITAL COMPUTER 21-71

SCANDIUM
LIFETIMES OF NEGATIVE PARITY STATES OF SCANDIUM -49 BY THE CALCIUM -48(PROTON, GAMMA)SCANDIUM -49 REACTION. 25-102

SCANNING
QUANTITATIVE DETERMINATION OF FISSION PRODUCTS IN IRRADIATED FUEL PINS USING NONDESTRUCTIVE GAMMA SCANNING. 2-21

QUANTITATIVE DETERMINATION OF FISSION PRODUCTS IN IRRADIATED FUEL PINS USING NONDESTRUCTIVE GAMMA SCANNING 2-22

DIAGNOSES OF DISEASE STATES BY FLUORESCENT MEASUREMENTS UTILIZING SCANNING LASER BEAMS 5-52

APPLICATION OF MODERN GAMMA SCANNING TECHNIQUE. 23-1

SCATTERING
USE OF TWO ANGLE ELASTIC AND RAMAN SCATTERING TO OBTAIN MOLECULAR DENSITY AND AEROSOL SCATTERING PROFILES. 1-31

ELECTRON BINDING EFFECTS ON SCATTERING CONTRIBUTION TO MONOCHROMATIC AND MEAN OPACITIES. 4-14

ELECTRON SCATTERING FROM ATOMS, NUCLEI AND NUCLEONS. 4-16

LARGE ANGLE AMPLITUDE FOR POTENTIAL SCATTERING AT HIGH ENERGY. 4-33

MULTIPLE SCATTERING TREATMENT OF THE SOLVATED ELECTRON IN WATER. 4-41

R-MATRIX THEORY FOR ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS. 2. ELECTRON - HYDROGEN(2) SCATTERING IN THE STATIC EXCHANGE MODEL. 4-53

COLLISIONS OF NEON*(3S) AND NEON(+) WITH NEON. EXCITATION AND CHARGE TRANSFER, ELASTIC SCATTERING, AND DIFFUSION. 4-9

CELL CLASSIFICATION BY LASER LIGHT SCATTERING: IDENTIFICATION AND SEPARATION OF UNSTAINED LEUKOCYTES. 5-19

CELL CLASSIFICATION BY MULTIANGLE LASER LIGHT SCATTERING IN A FLOW SYSTEM. 5-20

CLASSIFICATION OF HUMAN LEUKOCYTES BY MULTIANGLE LASER LIGHT SCATTERING IN A FLOW SYSTEM. 5-41

FLOW SYSTEM MULTIANGLE LIGHT SCATTERING INSTRUMENT FOR BIOLOGICAL CELL CHARACTERIZATION. 5-66

FLOW SYSTEM MULTIANGLE LIGHT SCATTERING INSTRUMENT FOR CELL CHARACTERIZATION. 5-67

REFINEMENT OF THE CRYSTAL STRUCTURE OF MELAMINE, 2,4,6- TRIAMINO -S- TRIAZINE, USING GENERALIZED SCATTERING FACTORS AT THE OCTUPOLE LEVEL. 9-21

ATOMIC SCATTERING FACTORS FOR X RAYS. 9-3

COHERENT INELASTIC ELECTRON SCATTERING IN LEED (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF ARSENIC(0001). 9-5

DISPERSION CORRECTIONS FOR X RAY ATOMIC SCATTERING FACTORS. 9-9

DIGITAL TELEVISION CAMERA FOR A THOMSON SCATTERING DETECTOR. 10-21

DYNAMICS OF THE DENSE PLASMA FOCUS AS DETERMINED FROM AN ANALYSIS OF LASER SCATTERING SPECTRA. 10-23

ION TEMPERATURE MEASUREMENT BY LASER SCATTERING AT 2.8 MICRONS. 10-65

RELATIVISTIC COMPTON SCATTERING FROM MOVING ELECTRONS AND ANGULAR MOMENTS. 18-40

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 3. ELASTIC SCATTERING METHOD. 20-104

PLASMA SIMULATION STUDIES OF STIMULATED SCATTERING PROCESSES IN LASER IRRADIATED PLASMAS 20-118

STIMULATED DIFFUSION SCATTERING IN IONOSPHERIC MODIFICATION. 20-142

THEORY OF STIMULATED SCATTERING PROCESSES IN LASER IRRADIATED PLASMAS. 20-153

ELECTROMAGNETIC SCATTERING INSTABILITIES IN WEAKLY INHOMOGENEOUS UNDERDENSE PLASMA. 20-35

EXTRACTION OF NEUTRON - NEUTRON SCATTERING LENGTH FROM THE REACTION PI -DEUTERON TO GAMMA NEUTRON - NEUTRON. 22-14

EXTRACTION OF NEUTRON - NEUTRON SCATTERING LENGTH FROM THE REACTION PI -DEUTERON TO GAMMA NEUTRON - NEUTRON. ERRATUM. 22-15

INELASTIC PION - NUCLEUS SCATTERING IN DWIA. 22-20

LIMIT ON PARITY NONCONSERVATION IN P-NUCLEUS SCATTERING AT 6 GEV/C. 25-103

MASS NUMBER DEPENDENCE OF THE PION -NUCLEUS SCATTERING LENGTHS. 25-109

MULTIPLE EXCHANGE AND HIGH ENERGY FIXED ANGLE SCATTERING. 25-123

NON-EIKONAL APPROACH TO THE SCATTERING OF HADRONS FROM NUCLEI. 2. PROTON AND PION SCATTERING FROM DEUTERIUM, HELIUM -3 AND HELIUM -4. 25-139

NUCLEAR MATTER THEORY FOR PION SCATTERING FROM NUCLEI. 25-144

OBSERVATION OF THE RECOIL PROTON IN QUASIELASTIC PION SCATTERING. 25-148

PARITY NONCONSERVATION IN PROTON - PROTON AND PROTON - NUCLEUS SCATTERING. 25-153

PION CHARGE EXCHANGE SCATTERING FROM LIGHT NUCLEI. 25-169

PION CHARGE EXCHANGE SCATTERING FROM LITHIUM -7, BORON -10, AND CARBON -13. 25-170

PION SCATTERING FROM LIGHT NUCLEI. 25-173

PROTON - NUCLEUS SCATTERING AT INTERMEDIATE ENERGIES. 25-181

PROTON - PROTON SCATTERING, THE CHOU-YANG MODEL, AND PROTON FORM FACTORS. 25-184

QUASI-ELASTIC PION SCATTERING IN THE (3,3) RESONANCE REGION. 25-189

BETHE-SALPETER EQUATION FOR NUCLEON -NUCLEON SCATTERING: MATRIX PADE APPROXIMANTS. 2. 25-20

SIMPLE OPTICAL MODEL FOR PION - NUCLEUS SCATTERING. 25-205

TESTS OF PARITY CONSERVATION IN PROTON -PROTON AND PROTON - NUCLEUS SCATTERING. 25-218

THEORY OF THE SCATTERING OF PIONS BY NUCLEAR MATTER. 25-219

DEUTERON - DEUTERON TOTAL SCATTERING CROSS SECTIONS IN THE VELOCITY RANGE 950-2250 M/SEC. 25-47

DIFFERENTIAL CROSS SECTIONS FOR COHERENT PHOTON SCATTERING BY ELEMENTS Z=2 THROUGH Z=26. 25-48

EFFECTS OF PION MULTIPLE SCATTERING ON THE DISTRIBUTION OF RESIDUAL NUCLEI. 25-55

ELASTIC PION HELIUM -4 SCATTERING. 25-56

ELASTIC SCATTERING OF 7-12 MEV TRITONS BY ALPHA PARTICLES. 25-57

ELASTIC SCATTERING OF LOW ENERGY PIONS ON PROTONS. 25-58

ELASTIC SCATTERING OF POSITIVE PIONS BY CARBON AT 147 MEV. 25-59

ELECTRON ELASTIC SCATTERING CROSS SECTIONS FROM 1 KEV TO 100 MEV FOR ELEMENTS Z = 1 TO 100. 25-62

EXPANSION OF THE NUCLEON - NUCLEON SCATTERING AMPLITUDE IN EXCHANGED PARTIAL WAVES. 25-73

INELASTIC PROTON SCATTERING AS A TEST OF SURFACE DELTA WAVE FUNCTIONS. 25-98

INELASTIC SCATTERING CROSS SECTIONS OF LEAD AND URANIUM FOR 14 MEV NEUTRONS. 25-98

SCATTERINGS
BACKWARD POTENTIAL SCATTERINGS AT HIGH ENERGY. 4-6

SCHEME
LINEAR DISCONTINUOUS FINITE ELEMENT SCHEME IN TIME DEPENDENT TRANSPORT CALCULATIONS. 24-13

ERBIUM -158 TO HOLMIUM -158 DECAY SCHEME AND Q-BETA VALUE. 25-68

SCHEMES
URANIUM TRANSITIONS AND ENERGY LEVELS WHICH MAY BE USEFUL IN ATOMIC PHOTOIONIZATION SCHEMES FOR SEPARATING URANIUM -238 AND URANIUM -235. 2-28

AMPLIFIERS INVOLVING TWO PHOTON ENERGY EXTRACTION SCHEMES. 20-6

COMPARING CERTAIN CLASSES OF DIFFERENCE AND FINITE ELEMENT SCHEMES FOR A HYPERBOLIC PROBLEM. 21-17

ANALYSIS OF SOME GALERKIN SCHEMES FOR THE SOLUTION OF NONLINEAR TIME DEPENDENT PROBLEMS. 21-6

SCHUMANN-RUNGE
ISOTOPE EFFECTS IN THE SCHUMANN-RUNGE BANDS OF MOLECULAR OXYGEN. 4-32

SCIENCE
COMPUTER SCIENCE AND SERVICES DIVISION OF THE LOS ALAMOS SCIENTIFIC LABORATORY. 21-21

SCIENCES
PLUTONIUM: HEALTH IMPLICATIONS FOR MAN. 1974. 2ND LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROCEEDINGS. 5-115

MAMMALIAN CELLS: PROBES AND PROBLEMS. 1973. 1ST LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROCEEDINGS. 5-95

SCIENTIFIC
CONTROLLED THERMONUCLEAR RESEARCH AT THE LOS ALAMOS SCIENTIFIC LABORATORY. 10-12

PARTIAL CHRONOLOGY OF Z PINCH STUDIES AT LOS ALAMOS SCIENTIFIC LABORATORY, 1952-1975. 10-97

FAULT ACTIVITY AND SEISMICITY NEAR THE LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST SITE, JEMEZ MOUNTAINS, NEW MEXICO. 11-15

FORCED OSCILLATIONS OF THE LOS ALAMOS SCIENTIFIC LABORATORY'S DRY HOT ROCK GEOTHERMAL RESERVOIR. 11-17

GEOPHYSICAL LOGGING IN LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST HOLE NO.2. 11-19

NATIONAL ENERGY NEEDS, COAL, AND THE LOS ALAMOS SCIENTIFIC LABORATORY. 12-13

TRITIUM HANDLING FACILITIES AT THE LOS ALAMOS SCIENTIFIC LABORATORY. 13-18

SAFETY CONSIDERATIONS IN THE LASER RESEARCH PROGRAM AT THE LOS ALAMOS SCIENTIFIC LABORATORY. 17-51

VENTILATION DESIGN MODIFICATIONS AT LOS ALAMOS SCIENTIFIC LABORATORY MAJOR PLUTONIUM OPERATIONAL AREAS. 17-61

COMPUTER SCIENCE AND SERVICES DIVISION OF THE LOS ALAMOS SCIENTIFIC LABORATORY. 21-21

COMPUTERIZED IMAGE ANALYSIS AT THE LOS ALAMOS SCIENTIFIC LABORATORY. 21-22

COMPUTING FACILITIES AT LOS ALAMOS SCIENTIFIC LABORATORY. 21-25

ENERGY RELATED ACTIVITIES AT THE LOS ALAMOS SCIENTIFIC LABORATORY. 30-23

LOS ALAMOS SCIENTIFIC LABORATORY PROGRAMS AND CAPABILITIES. 30-44

MACHINING AND INSPECTION PROCEDURES USED AT LOS ALAMOS SCIENTIFIC LABORATORY FOR FUEL ELEMENTS OF THE KIWI-B4 SERIES. 30-45

PROPOSAL TO DESIGNATE CERTAIN LAND AREAS OF THE LOS ALAMOS SCIENTIFIC LABORATORY AS A NATIONAL ENVIRONMENTAL RESEARCH PARK. 30-66

SCINTILLATOR
FABRICATION AND CALIBRATION OF THIN PLASTIC SCINTILLATOR X RAY DETECTORS. 19-7

SCINTILLATORS
STREAK CAMERA STUDIES USING PICOSECOND PULSES OF PHOTOSYNTHESIS AND PLASTIC SCINTILLATORS. 20-143

SCISSION
SCISSION POINT PARAMETERS DETERMINED BY LIGHT PARTICLE EMISSION IN FISSION OF CALIFORNIUM -252. 16-13

SCORPIUS
ANALYSIS OF A SCORPIUS X-1 X RAY SPECTRUM OBTAINED WITH COOLED SILICON (LI) DETECTORS. 3-3

RESULTS OF X RAY AND OPTICAL MONITORING OF SCORPIUS X-1 IN 1970. 3-39

SCRAP
USE OF URANIUM -237 TRACER IN MONITORING PLUTONIUM SCRAP RECOVERY OPERATIONS. 23-62

SCREEN
PERFORMANCE TESTS OF GRAVITY ASSIST HEAT PIPES WITH SCREEN WICK STRUCTURES. 13-12

SCREENING
ON THE VALIDITY OF THE SLATER APPROXIMATION IN ELECTRON SCREENING IN EXOTIC ATOMS. 4-47

RAPID DISEASE SCREENING WITH ENZYME LABELED ANTIBODIES. 5-123

SCREW
STABILITY ANALYSIS OF SHARP BOUNDARY VLASOV FLUID SCREW PINCH EQUILIBRIA. 10-128

STABILITY ANALYSIS OF SHARP BOUNDARY VLASOV FLUID SCREW PINCH EQUILIBRIA. 10-129

HYBRID SIMULATION OF SCREW PINCH IMPLOSIONS WITH IMPURITIES AND OF THETA PINCH IMPLOSIONS RESULTING IN REFLECTED ION BEAMS. 10-53

SCYLLA
PLASMA EXPERIMENTS ON THE HIGH DENSITY SCYLLA I-C THETA PINCH. 10-101

SCYLLA IV-P LINEAR THETA PINCH. 10-117

IMPLOSION HEATING STUDIES IN THE SCYLLA 1B, IMPLOSION HEATING, AND STAGED THETA PINCH EXPERIMENTS. 10-56

INITIAL LASER PLASMA INTERACTION EXPERIMENTS IN THE SCYLLA I-C THETA PINCH. 10-60

LASER - PLASMA INTERACTIONS IN THE SCYLLA I-C EXPERIMENT: PRELIMINARY ANALYSIS. 10-68

LASER PLASMA INTERACTION IN THE SCYLLA I-C THETA PINCH. 10-69

SCYLLAC
PLASMA EXPERIMENTS IN THE SCYLLAC TOROIDAL THETA PINCH. 10-100

PROPOSAL FOR THE CONSTRUCTION OF THE STAGED SCYLLAC PROTOTYPE. 10-106

SCYLLAC DERATED FEEDBACK SECTOR EXPERIMENTS. 10-118

SCYLLAC FEEDBACK STABILIZATION EXPERIMENTS. 10-119

SCYLLAC FEEDBACK STABILIZATION. 10-120

SCYLLAC FUSION TEST REACTOR DESIGN. 10-121

SCYLLAC SECTOR EXPERIMENTS. 10-122

SCYLLAC SECTOR RESULTS WITH PROGRAMMED L=0 AND L=2 AUXILIARY FIELDS. 10-123

STABILITY OF A CLOSED LINE SCYLLAC CONFIGURATION. 10-132

TIME DEPENDENT CALCULATIONS OF EQUILIBRIUM AND STABILITY PROBLEMS IN SCYLLAC AND TOKAMAK GEOMETRIES. 10-149

TOROIDAL MODE STRUCTURE IN THE SCYLLAC FULL TORUS. 10-150

DYNAMIC MODEL OF GROSS PLASMA MOTION IN SCYLLAC. 10-22

EXPERIMENTAL STUDY OF AREA WAVES IN THE 8 METER SCYLLAC FEEDBACK SECTOR. 10-35

MHD STABILITY OF THE SCYLLAC CONFIGURATION. 10-81

OPTICAL DIAGNOSTICS OF THE SCYLLAC CTR DEVICE: A CASE STUDY. 10-94

OPTICAL DIAGNOSTICS ON SCYLLAC. 10-95

ORIGIN OF AXIAL CURRENT IN SCYLLAC. 10-96

PLASMA EQUILIBRIUM DISTORTIONS IN THE SCYLLAC SECTOR. 10-98

PLASMA EQUILIBRIUM IN THE SCYLLAC FEEDBACK SECTOR. 10-99

SEALED
SEALED REFLUX DISSOLUTION SYSTEM. 2-25

SEARCH
DEVELOPMENTS IN SEARCH AND SURVEY INSTRUMENTATION. 19-5

SEARCH FOR ALPHA DECAY IN NATURAL OSMIUM -186. 25-200

EXPERIMENTAL SEARCH FOR CONDENSED NUCLEAR STATES. 25-75

SEARCHES
FITPI: MODIFICATIONS TO THE OPTICAL MODEL PROGRAM PIRK FOR PARAMETER SEARCHES AND TOTAL CROSS SECTIONS. 29-3

SEATED
PETROLOGY OF DEEP SEATED CUMULATE INCLUSIONS, WEST POTRILLO MOUNTAINS, NEW MEXICO. 11-39

SEAWAY
RATIONAL DYNAMIC LOADS ANALYSIS FOR AIR CUSHION VEHICLES IN RANDOM SEAWAY OR TERRAIN. 30-76

SEC
DEUTERON - DEUTERON TOTAL SCATTERING CROSS SECTIONS IN THE VELOCITY RANGE 950-2250 M/SEC. 25-47

SECOND
DEPENDENCE OF THE SECOND EXPLOSION LIMITS OF HYDROGEN - FLUORINE - OXYGEN -HYDROGEN FLUORIDE MIXTURES ON A HOT ATOM EFFECT. 6-5

SPECTRAL ACCEPTANCE FOR SECOND HARMONIC GENERATION IN CD*A (CESIUM DIDEUTERIUM ARSENATE). 20-137

NUMERICAL COMPARISON OF INTEGRAL EQUATIONS OF THE FIRST AND SECOND KIND FOR CONFORMAL MAPPING. 21-54

RELATIVISTIC SECOND ORDER ENERGY FUNCTIONAL FOR FINITE FERMION SYSTEMS. 25-196

RELATIVISTIC SECOND ORDER ENERGY IN INFINITE FERMION MATTER. 25-197

SECONDARY
HIGH ANGULAR RESOLUTION SECONDARY ELECTRON SPECTROSCOPY: KIKUCHI CORRELATIONS FOR ARSENIC (0001). 9-11

EFFECT OF SECONDARY ELECTRONS ON CHARGE COLLECTOR MEASUREMENT OF A LASER PRODUCED PLASMA. 20-30

HEATING BY SECONDARY PARTICLES AT MESON FACTORIES. 22-17

SECTOR
SCYLLAC DERATED FEEDBACK SECTOR EXPERIMENTS. 10-118

SCYLLAC SECTOR EXPERIMENTS. 10-122

SCYLLAC SECTOR RESULTS WITH PROGRAMMED L=0 AND L=2 AUXILIARY FIELDS. 10-123

EXPERIMENTAL STUDY OF AREA WAVES IN THE 8 METER SCYLLAC FEEDBACK SECTOR. 10-35

PLASMA EQUILIBRIUM DISTORTIONS IN THE SCYLLAC SECTOR. 10-98

PLASMA EQUILIBRIUM IN THE SCYLLAC FEEDBACK SECTOR. 10-99

SEEDED
ANALYSIS OF VUV EMISSION IN A THETA PINCH SEEDED WITH NEON AND IRON. 4-1

CHARACTERISTICS OF HIGH DENSITY THETA PINCHES SEEDED WITH SELECTED HIGH Z ELEMENTS. 10-6

ION STAGE BUILDUP IN A THETA PINCH SEEDED WITH IRON. 10-64

UV PHOTOIONIZATION PROCESSES IN SEEDED HIGH PRESSURE LASER GASES. 20-162

SEISMIC
PROPOSAL FOR ANALYSIS OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) CORE RESPONSE TO SEISMIC INPUT. 28-31

SEISMICITY
FAULT ACTIVITY AND SEISMICITY NEAR THE LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST SITE, JEMEZ MOUNTAINS, NEW MEXICO. 11-15

SEISMICITY OF LOS ALAMOS AREA ESTIMATED FROM FAULT MOVEMENTS. 11-49

SEISMICITY OF THE NORTHERN RIO GRANDE RIFT ZONE, NEW MEXICO. 11-50

SEISMICITY STUDIES IN NORTHERN NEW MEXICO. 11-51

SELECTION
MODIFIED REPLICATE PLATING TECHNIQUE FOR USE IN SOMATIC CELL MUTANT SELECTION. 5-102

QUALITY SELECTION OF LASER - FUSION TARGET MICROBALLOONS. 20-126

LASER INITIATED KRYTRON SWITCHED BLUMLEIN STRUCTURE FOR PULSE SELECTION. 20-77

SELECTIVELY
CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13: THE EFFECT OF TEMPERATURE AND LIGH1. 14-1

CARBON -13 NUCLEAR MAGNETIC RESONANCE STUDIES OF ADENOSYLCOBALAMIN AND ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13. 14-4

CARBON -13 PARTIALLY RELAXED FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF ORGANOCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13. 14-5

SELENIDE
DAMAGE THRESHOLDS IN ZINC SELENIDE, A/R COATED SODIUM CHLORIDE AND MICROMACHINED MIRRORS BY 10.6 MICRON MULTIJOULE, NANOSECOND PULSES. 20-21

SELENIUM
COMPARATIVE METABOLISM OF RADIONUCLIDES IN MAMMALS. 9. RETENTION OF SELENIUM -75 IN THE MOUSE, RAT, MONKEY, AND DOG. 5-43

SELF
SELF CONSISTENT FIELD CALCULATION OF THE ELECTRONIC STRUCTURE OF THE URANYL ION. 4-59

SELF CONSISTENT PHONON CALCULATIONS AND EQUATIONS OF STATE OF SOLID HYDROGEN AND DEUTERIUM. 4-60

TRANSIENT FLOW AND EXPANSION OF A PINCH DISCHARGE PLASMA IN SELF INDUCED MAGNETIC FIELDS. 10-152

INFLUENCE OF SELF FIELDS ON THE FILAMENTATION INSTABILITY IN RELATIVISTIC BEAM PLASMA SYSTEMS. 10-58

INFLUENCE OF SELF FIELDS ON THE VLASOV EQUILIBRIUM AND STABILITY PROPERTIES OF RELATIVISTIC ELECTRON BEAM - PLASMA SYSTEMS. 10-59

NUMERICAL STUDIES OF THE INTERPLAY BETWEEN SELF PHASE MODULATION AND DISPERSION FOR INTENSE PLANE WAVE LASER PULSES. 20-105

SELF FOCUSING PHENOMENA IN AIR - GLASS LASER STRUCTURES. 20-136

METHODS TO REDUCE THE EFFECTS OF SELF LASING AND TARGET REFLECTIONS IN CARBON DIOXIDE LASERS. 20-92

SELF INTERACTING, BOSON, QUANTUM, FIELD THEORY AND THE THERMODYNAMIC LIMIT IN D DIMENSIONS. 21-72

SELF SHIELDED CROSS SECTIONS FOR NEUTRON TRANSPORT IN IRON. 25-201

SELF SHIELDING OF ELASTIC TRANSFER MATRICES. 25-202

STATIONARY NON-EQUILIBRIUM PROPERTIES OF A QUANTUM MECHANICAL LATTICE WITH SELF CONSISTENT RESERVOIRS. 27-16

STATIONARY NONEQUILIBRIUM PROPERTIES OF A QUANTUM MECHANICAL LATTICE WITH SELF CONSISTENT RESERVOIRS. 27-17

DISORDERED HARMONIC CHAIN WITH SELF CONSISTENT RESERVOIRS. 27-6

SELF FLYING ATOMIC BOMBS (NEW MEXICO JUMPING BEANS). 39-82

SEMICLASSICAL
SEMICLASSICAL MODEL FOR PION PRODUCTION BY NEUTRONS ON NUCLEI. 25-203

SEMIEMPIRICAL
SEMIEMPIRICAL ATOMIC MASS FORMULA 4-61

SEMINAR
OPTICAL METHODS IN ENERGY CONVERSION. SPIE SEMINAR IN DEPTH, ROCHESTER, 23-25 JUNE 1975 20-110

SENSING
POTENTIAL SENSING CELL ANALYZER. 5-117

SENSITIVE
DENSITY SENSITIVE LINES OF HIGHLY IONIZED IRON. 4-13

EFFICIENCY AND POSITION RESOLUTION OF TWO DIMENSIONAL POSITION SENSITIVE MULTIWIRE PROPORTION COUNTERS. 22-12

SENSITIVITY
APPLICATION OF SENSITIVITY ANALYSIS TO A QUANTITATIVE ASSESSMENT OF NEUTRON CROSS SECTION REQUIREMENTS FOR THE TFTR (TOKAMAK FUSION TEST REACTOR): AN INTERIM REPORT. 10-2

NUCLEONIC DESIGN SENSITIVITY ANALYSIS FOR THE REFERENCE THETA PINCH REACTOR (RTPR). 10-86

SENSITIVITY OF X-0219 TO BULLET IMPACT. 15-24

CONSISTENCY AMONG DIFFERENTIAL NUCLEAR DATA AND INTEGRAL OBSERVATIONS: THE ALVIN CODE FOR DATA ADJUSTMENT, FOR SENSITIVITY CALCULATIONS, AND FOR IDENTIFICATION OF INCONSISTENT DATA. 25-36

SENSITIVITY ANALYSIS IN SHIELDING: AN OVERVIEW. 28-37

SENSOR
NON-INTERCEPTING BEAM POSITION SENSOR FOR LAMPF. 21-52

SEPARABLE
SEPARABLE SOLUTIONS FOR DIRECTLY INTERACTING PARTICLE SYSTEMS. 25-204

COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATION FOR THE FULLY OFF SHELL TWO NUCLEON T MATRIX. 25-38

SEPARATED
TRANSFER OF MOUSE IGG2 PRODUCTION BY IGM BEARING SPLEEN CELLS SEPARATED BY A FLUORESCENCE ACTIVATED CELL SORTER. 5-141

ON-LINE INTERNAL CONVERSION COEFFICIENTS FOR THE DECAYS OF MASS SEPARATED KRYPTON -91 AND RUBIDIUM -91. 25-149

SEPARATING
URANIUM TRANSITIONS AND ENERGY LEVELS WHICH MAY BE USEFUL IN ATOMIC PHOTOIONIZATION SCHEMES FOR SEPARATING URANIUM -238 AND URANIUM -235. 2-28

SEPARATION
CELL CLASSIFICATION BY LASER LIGHT SCATTERING: IDENTIFICATION AND SEPARATION OF UNSTAINED LEUKOCYTES. 5-19

QUANTITATIVE SEPARATION OF AMERICIUM AND PLUTONIUM USING CUPFERRON. 7-14

CINDER CONE SEPARATION DISTANCES: IMPLICATIONS FOR THE DEPTH OF FORMATION OF GABBROIC XENOLITHS. 11-8

HYDROGEN ISOTOPE SEPARATION FROM WATER. 20-53

ISOTOPE SEPARATION. 20-62

LASER ISOTOPE SEPARATION. 20-78

SEPARATOR
PARTICLE SEPARATOR AT LOS ALAMOS. 22-37

SEPTEMBER
DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, SEPTEMBER 1, 1974 - MARCH 1, 1975. 5-51

AUTOMATED CANCER CELL SORTING AND ANALYSIS, APRIL 1 - SEPTEMBER 30, 1975. 5-7

PROGRESS REPORT, USERDA-DAT DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JULY 1 THROUGH SEPTEMBER 30, 1974. 8-33

SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, APRIL 1 THROUGH SEPTEMBER 30, 1974. 8-46

PROGRESS REPORT, RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES FOR THE PERIOD JULY 1 TO SEPTEMBER 30, 1974. 12-16

DEVELOPMENT OF AIR SAMPLING TECHNIQUES, LASL PROJECT R-059, NIOSH-IA-74-10, APRIL 1 - SEPTEMBER 30, 1974. 17-13

PROGRESS REPORT, ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JULY 1 THROUGH SEPTEMBER 30, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-45

PROGRESS REPORT, RESEARCH ON CARBON -ALUMINUM COMPOSITES, SEPTEMBER 1, 1973-JANUARY 31, 1974. 23-47

APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, JULY 1 - SEPTEMBER 30, 1975. 25-16

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT. PROGRAM STATUS REPORT, SEPTEMBER - DECEMBER 1974. 26-18

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT PROGRAM STATUS REPORT, SEPTEMBER -DECEMBER 1972. 26-19

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS, JULY 1 - SEPTEMBER 30, 1975. 28-11

TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, JULY 1 - SEPTEMBER 30, 1975. 28-39

SEQUENCES
TRANSITIONS 2S(2)2P(K)-2S2P(K+1) OF THE FLUORINE(I), OXYGEN(I), AND NITROGEN(I) ISOELECTRONIC SEQUENCES. 4-66

TRANSITIONS 2S(2)2P(K)-2S2P(K+1) OF THE NITROGEN(I) AND CARBON(I) ISOELECTRONIC SEQUENCES. 4-67

SEQUENTIAL
SEQUENTIAL BIOCHEMICAL EVENTS IN PREPARATION FOR DNA REPLICATION AND MITOSIS. 5-130

SEQUENTIAL PHOSPHORYLATION OF HISTONE SUBFRACTIONS IN THE CHINESE HAMSTER CELL CYCLE. 5-131

PERFORMANCE OF MULTIHUNDRED WATT FUELED SPHERE ASSEMBLIES IN THE SAFETY SEQUENTIAL TEST PROGRAM. 17-35

SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE II: SOLID PROPELLANT FIRE. 17-52

SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE III: FSA (FUEL SPHERE ASSEMBLY) IMPACTS. 17-53

SERIES
LECTURES ON DIVERGENT SERIES. 21-45

NUMERICAL METHODS. LOS ALAMOS TECHNICAL SERIES, VOLUME 2, PART 1, CHAPTERS 1-5. 21-57

NUMERICAL METHODS. LOS ALAMOS TECHNICAL SERIES, VOLUME 2, PART 2, CHAPTERS 6-8. 21-58

MACHINING AND INSPECTION PROCEDURES USED AT LOS ALAMOS SCIENTIFIC LABORATORY FOR FUEL ELEMENTS OF THE KIWI-B4 SERIES. 30-45

SERINE
CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES. 5-24

CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES. 5-25

SEROLOGIC
SEROLOGIC TEST DEVELOPMENT, JULY 1, 1974 - JUNE 30, 1975. 5-132

SEROLOGIC TESTING WITH ENZYME LABELED ANTIBODIES (ELA). 5-133

ANNUAL REPORT, SEROLOGIC TEST DEVELOPMENT, JULY 1, 1973 THROUGH JUNE 30, 1974. 5-3

SERVICES
COMPUTER SCIENCE AND SERVICES DIVISION OF THE LOS ALAMOS SCIENTIFIC LABORATORY. 21-21

SESSION
CELL CYCLE ANALYSIS: SESSION SUMMARY. 5-22

CHAIRMAN'S CLOSING REMARKS, SESSION V: THE CELL SURFACE. 5-35

CHAIRMAN'S REMARKS, SESSION V: THE CELL SURFACE. 5-36

SET
R-MATRIX THEORY FOR ELECTRON - ATOM AND ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS. 4-52

R-MATRIX THEORY FOR ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS. 2. ELECTRON - HYDROGEN(2) SCATTERING IN THE STATIC EXCHANGE MODEL. 4-53

SEVENTY
SOME OBSERVATIONS ON THE COMPARATIVE EFFECTS OF INBREEDING AND WHOLE BODY X RAY EXPOSURE TO SEVENTY GENERATIONS OF MICE. 5-134

SEVERAL
HUGONIOT DATA FOR SEVERAL BENZENE RING LIQUIDS. 18-18

(PI-PLUS,PP) REACTION ON SEVERAL LIGHT NUCLEI. 22-1

FOURTEEN MEV, NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS FOR SEVERAL ELEMENTS. 25-84

SHAPE
CALCULATIONS OF COULOMB ENERGIES FOR UNIFORM CHARGE DISTRIBUTIONS OF ARBITRARY SHAPE. 24-2

IMPORTANCE OF THE QUADRUPOLE PAIRING FIELD IN THE J(PI)=0(+) VIBRATIONS OF SHAPE DEFORMED NUCLEI. 25-97

SHAPED
L = 6.7 QUIET TIME BARIUM SHAPED CHARGE INJECTION EXPERIMENT CHACHALACA. 1-17

VLF RADIO PHENOMENA FOLLOWING A BARIUM SHAPED CHARGE RELEASE AT L APPROXIMATELY EQUALS 6.5. 1-32

SHAPES
POTENTIAL WELL SHAPES FOR TENSOR TERMS INVOLVING SPIN. 25-177

SHARP
STABILITY ANALYSIS OF SHARP BOUNDARY VLASOV FLUID SCREW PINCH EQUILIBRIA. 10-128

STABILITY ANALYSIS OF SHARP BOUNDARY VLASOV FLUID SCREW PINCH EQUILIBRIA. 10-129

MAGNETOHYDRODYNAMIC STABILITY OF A SHARP BOUNDARY MODEL OF TOKAMAK. 10-78

SHEATH
PRESSURE PROFILES IN A THERMONUCLEAR PLASMA SHEATH CONTAINING ENERGETIC ALPHA PARTICLES. 10-106

SHEET
INVESTIGATION OF SUBSTORM RELATED PLASMA SHEET THINNING WITH IMP 8. 1-15

COMPLETE PLASMA DROPOUTS AT VELA SATELLITES DURING THINNING OF THE PLASMA SHEET. 1-2

RECENT OBSERVATIONS RELATING TO THE DYNAMICS AND ORIGIN OF THE MAGNETOTAIL PLASMA SHEET. 1-22

RESPONSE OF THE PLASMA SHEET AT APPROXIMATELY 18 EARTH RADII TO SUDDEN SOUTHWARD TURNINGS OF THE INTERPLANETARY MAGNETIC FIELD. 1-23

DISTRIBUTION OF PLASMA SHEET THINNING AND RECOVERY EVENTS IN THE MAGNETOTAIL SURVEYED BY THE IMP-6 SATELLITE. 1-3

SHELL
ZERO PLUS STATES NEAR THE N=20 NEUTRON SHELL FROM ARGON(TRITON,PROTON) REACTIONS. 25-232

COMPARISON OF (TRITON,HELIUM -3), (HELIUM -3,TRITON) AND (HELIUM -3,PROTON) REACTIONS OF F-P SHELL NUCLEI. 25-32

COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATION FOR THE FULLY OFF SHELL TWO NUCLEON T MATRIX. 25-38

DEPENDENCE OF THE OFF ENERGY SHELL T MATRIX ON THE TOTAL THREE MOMENTUM. 25-45

SHIELD
KILOTON SHIELD DOORS AT LAMPF. 13-8

KILOTON SHIELD DOORS AT LAMPF. 22-22

SHIELDED
SELF SHIELDED CROSS SECTIONS FOR NEUTRON TRANSPORT IN IRON. 25-201

SHIELDING
SHIELDING AND ACTIVATION OF A THETA PINCH FUSION TEST REACTOR (TPFTR) 10-124

MASSIVE SHIELDING ADAPTED TO REMOTE MAINTENANCE METHODS. 22-26

SELF SHIELDING OF ELASTIC TRANSFER MATRICES. 25-202

SPECTRUM AND SHIELDING MEASUREMENTS AND CALCULATIONS OF NEUTRONS PRODUCED BY 800 MEV PROTONS. 25-208

SENSITIVITY ANALYSIS IN SHIELDING: AN OVERVIEW. 28-37

SHIFT
NUCLEAR CHARGE DISTRIBUTIONS IN THE MASS 60 REGION: NEW EVIDENCE FROM MUONIC ISOTOPE SHIFT MEASUREMENTS. 25-140

SHIFT REGISTER NEUTRON COINCIDENCE MODULE. 26-26

SHIFTS
MUONIC ISOTOPE SHIFTS IN THE EVEN IRON NUCLEI. 25-125

SHIPPING
ROVER SHIPPING CASK. 13-16

SHOCK
ISOTHERMAL LINEAR AND VOLUME COMPRESSION OF PENTAERYTHRITOL TETRANITRATE (PETN) TO 10 GPA (100 KBAR) AND THE CALCULATED SHOCK COMPRESSION. 15-16

PLANE SHOCK INITIATION OF DETONATION: COMPUTER SIMULATION OF GAS GUN EXPERIMENT. 15-20

SHOCK COMPRESSION AND INITIATION OF POROUS PETN. 15-25

EFFECT OF RIGIDITY ON SHOCK WAVES IN SOLIDS. 15-7

ONE DIMENSIONAL CALCULATIONS OF SHOCK LOADED POLYCRYSTALLINE BERYLLIUM. 18-34

SHOCK COMPRESSION OF LIQUID AMMONIA. 18-42

SHOCK HYDRODYNAMICS. 18-43

SHOCK WAVE TECHNIQUES FOR THE EXAMINATION OF PHASE TRANSITIONS. 18-44

THEORETICAL AND EXPERIMENTAL STUDIES OF STRONG SHOCK WAVES IN AIR. 18-48

THREE DIMENSIONAL COMPUTER ANALYSIS OF SHOCK LOADS ON A SIMPLE STRUCTURE. 18-49

SHOCKS
STANDING WAVES AT LOW MACH NUMBER LAMINAR BOW SHOCKS. 1-28

OBLIQUE SHOCKS IN A MAGNETIZED PLASMA. 10-91

MAGNIFICATION RATIOS FOR EXPLOSIVE DRIVEN SHOCKS. 15-17

SHORT
ADJACENT CONDUCTOR FIELD CORRECTIONS TO HIGH CRITICAL CURRENT SHORT SAMPLE MEASUREMENTS. 8-3

USE OF HIGH ENERGY, SHORT PULSE EXPLOSIVE GENERATORS TO DRIVE ELECTROMAGNETIC IMPLOSIONS. 15-29

SHORT RANGE RADIO TELEMETRY FOR ELECTRONIC IDENTIFICATION USING MODULATED RF BACKSCATTER. 19-18

GAIN RECOVERY AFTER SATURATION IN SHORT PULSE CARBON DIOXIDE AMPLIFIERS. 20-46

LASER FUSION EXPERIMENTS AT LOS ALAMOS. PART 2: THE LASL CARBON DIOXIDE SHORT PULSE OSCILLATOR - AMPLIFIER SYSTEM. 20-70

LASL 2.5 KILOJOULE CARBON DIOXIDE SHORT PULSE LASER SYSTEM. 20-84

MEASUREMENT OF BEAM QUALITY FROM SHORT PULSE CARBON DIOXIDE LASERS. 20-88

MULTILINE SHORT PULSE AMPLIFICATION AND COMPRESSION IN HIGH GAIN CARBON DIOXIDE LASER AMPLIFIER. 20-99

ROLE OF TWO NUCLEON SHORT RANGE CORRELATIONS IN PION CHARGE EXCHANGE REACTIONS WITH NUCLEI. 25-198

EFFECT OF SHORT RANGED UNITARY TRANSFORMS ON THE RATE OF THE REACTION NEGATIVE PION PLUS DEUTERON GOES TO GAMMA RAY PLUS TWO NEUTRONS. 25-52

SHUFFLER
SYSTEM CONTROL FOR THE MODULATED CALIFORNIUM -252 SOURCE SHUFFLER. 26-27

SHUNT
ANALOG COMPUTER FOR CALCULATING THE SHUNT IMPEDANCE OF A RESONANT CAVITY. 21-4

SHUTTLE
IMPROVEMENT IN OXIDATION RESISTANCE OF THE LEADING EDGE THERMAL PROTECTION FOR A SPACE SHUTTLE. 23-30

SIGMA
OSCILLATOR STRENGTHS FROM LINE ABSORPTION IN A HIGH TEMPERATURE FURNACE. 2. THE (0,0) BAND OF THE B(2)SIGMA(+) -X(2)SIGMA (+) TRANSITION IN CYANOGEN. 4-48

SIGN
BOND GRAPH SIGN CONVENTIONS. 21-13

SIGNAL
NOISE IMMUNITY IN DIGITAL COMMUNICATION BY USE OF ORTHOGONAL SIGNAL CORRELATION AND WALSH FUNCTIONS. 19-15

MODEL FOR HEAT CONDUCTION WITH FINITE SIGNAL SPEED. 27-11

SIGNALS
DRIFT COMPENSATING INTEGRATOR FOR MEASUREMENT OF TRANSIENT ATOMIC ABSORPTION SIGNALS. 2-13

ON SIGNALS GENERATED BY THE BINDING OF MULTIVALENT ANTIGENS TO LYMPHOCYTES. 5-108

SIGNIFICANCE
SIGNIFICANCE ARITHMETIC: APPLICATION TO A PARTIAL DIFFERENTIAL EQUATION. 21-73

SILICA
SILICA IN WATER IN RELATION TO COOLING TOWER OPERATION. 2-26

SILICON
ANALYSIS OF A SCORPIUS X-1 X RAY SPECTRUM OBTAINED WITH COOLED SILICON (LI) DETECTORS. 3-3

EXCITATION ENERGIES OF LEVELS IN ALUMINUM -27 AND SILICON -28. 25-72

ANALOGS OF THE SILICON -28 COLLECTIVE M1 STATES OBSERVED IN THE SILICON -28 (TRITON,HELIUM -3) ALUMINUM -28 REACTION. 25-9

SILVER
E3 ISOMER OF SILVER -101. 25-50

E3 ISOMERS OF YTTRIUM -93 AND SILVER -101. 25-51

ADDITIONAL POLYMORPHISM AND NON-STOICHIOMETRY IN SILVER FLUORIDE. 29-1

SIMMER
CROSS SECTION METHODOLOGY IN SIMMER. 25-39

SIMULATED
WIND FLOW OVER SIMULATED STRUCTURES FOR MARTIAN AND TERRESTRIAL ATMOSPHERES. 16-55

SIMULATION
THEORY AND SIMULATION OF THE PARAMETRIC DECAY OF WHISTLER SOLITARY WAVES. 10-144

USE OF LITHIUM (DEUTERON,NEUTRON) NEUTRONS FOR SIMULATION OF RADIATION EFFECTS IN FUSION REACTORS. 10-154

HYBRID SIMULATION OF SCREW PINCH IMPLOSIONS WITH IMPURITIES AND OF THETA PINCH IMPLOSIONS RESULTING IN REFLECTED ION BEAMS. 10-53

COMPARISON OF THREE TWO DIMENSIONAL ELECTROSTATIC PLASMA SIMULATION MODELS. 10-8

NUMERICAL SIMULATION OF THE LOWER HYBRID DRIFT INSTABILITY. 10-88

NUMERICAL SIMULATION OF THE LOWER HYBRID DRIFT INSTABILITY. 10-89

COMPUTER SIMULATION OF COLLECTIVE ION ACCELERATION BY RELATIVISTIC ELECTRON BEAMS. 10-9

MODELING AND HYBRID SIMULATION OF SOLAR ENERGY SYSTEMS. 12-12

CONTROL SYSTEM DESIGN AND SIMULATION FOR A SOLAR HEATED AND COOLED BUILDING. 12-3

DYNAMIC SIMULATION OF A SOLAR HEATED AND COOLED BUILDING. 12-7

PLANE SHOCK INITIATION OF DETONATION: COMPUTER SIMULATION OF GAS GUN EXPERIMENT. 15-20

THEORETICAL SIMULATIONS OF THE GAS EXPLOSIVE SIMULATION TECHNIQUE (GEST) EXPERIMENTS. 15-26

NUMERICAL SIMULATION OF FLOW IN AN UNWRAPPED DOWNCOMER. 18-33

SIMULATION OF THE TWO STREAM INSTABILITY WITH FOUR NUMERICAL MODELS. 18-45

THREE DIMENSIONAL MULTIBURST SIMULATION USING THE ICED ALE METHOD. 18-50

PLASMA SIMULATION STUDIES OF STIMULATED SCATTERING PROCESSES IN LASER IRRADIATED PLASMAS. 20-118

THEORY AND SIMULATION OF RESONANT ABSORPTION IN A HOT PLASMA. 20-152

TWO DIMENSIONAL LAGRANGIAN LASER PELLET SIMULATION CODE. 20-159

COMPUTER SIMULATION OF A DEUTERIUM -TRITIUM PELLET MICROEXPLOSION IN A MAGNETICALLY PROTECTED LASER FUSION REACTOR. 20-20

HYBRID COMPUTER SIMULATION OF TRANSMISSION LINE CIRCUITS. 21-39

PARTICLE TRANSPORT SIMULATION WITH THE MONTE CARLO METHOD. 21-63

HIGH ENERGY PROTON SIMULATION OF 14 MEV NEUTRON DAMAGE IN ALUMINUM OXIDE. 23-28

USE OF A GENERAL PURPOSE HEAT TRANSFER CODE FOR CASTING SIMULATION. 23-60

SIMULATIONS
FLUTE INSTABILITIES IN TWO DIMENSIONAL SIMULATIONS OF STRONGLY INHOMOGENEOUS THETA PINCH PLASMAS. 10-40

THEORETICAL SIMULATIONS OF THE GAS EXPLOSIVE SIMULATION TECHNIQUE (GEST) EXPERIMENTS. 15-26

COLLISIONAL DAMPING OF LANGMUIR WAVES IN ONE DIMENSIONAL PLASMA SIMULATIONS. 20-19

SINGLE
RADIATION EFFECTS ON THE LATTICE CONSTANTS OF SINGLE CRYSTAL ALUMINUM DIOXIDE. 9-19

DYNAMIC ELASTIC - PLASTIC PROPERTIES OF SINGLE CRYSTAL PETN. 15-6

SINGLE BURST CALCULATIONS WITH YAQUI. 18-46

SURVEY OF THE STATE OF THE ART OF FAST SINGLE TRANSIENT ANALOG TO DIGITAL CONVERTER TECHNIQUES. 21-78

SINGLET
DIFFERENTIAL NUCLEAR OVERHAUSER ENHANCEMENT FOR CARBON -13 SINGLET AND CARBON -13 - CARBON -13 MULTIPLET RESONANCES OF A CARBOXYL CARBON. 14-6

CHARGE ASYMMETRY EFFECTS AND THE TRINUCLEON BINDING ENERGY. 2. INCLUSION OF THE TENSOR FORCE AND SINGLET REPULSION. 25-27

SINGULAR
REDUCTION OF SINGULAR COLLISION INTEGRALS IN PERTURBATION THEORY. 27-14

SINGULARITY
SINGULARITY FITTING IN HYDRODYNAMICAL CALCULATIONS. 2. 21-74

SINTERED
MATRIX MOTION OF LOW VOLUME MATRIX TUNGSTEN/NICKEL/IRON COMPOSITES SINTERED IN A TEMPERATURE GRADIENT. 23-37

STRENGTHENING OF LIQUID SINTERED TUNGSTEN ALLOYS. 23-56

SINUOSITY
SINUOSITY OF STRIKE - SLIP FAULT TRACES. 11-52

SISD
EXPLOITING VECTOR MODE IN A SISD COMPUTER. 21-32

SITE
FAULT ACTIVITY AND SEISMICITY NEAR THE LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST SITE, JEMEZ MOUNTAINS, NEW MEXICO. 11-15

WATER QUALITY IN VICINITY OF FENTON HILL SITE, 1974. 11-62

PLUTONIUM, AMERICIUM AND URANIUM CONCENTRATIONS IN NEVADA TEST SITE SOIL PROFILES. 17-43

SIZE
CLUSTER SIZE AND THE RAPIDITY GAP LENGTH DISTRIBUTION. 25-31

ESTIMATES OF CLUSTER SIZE IN HIGH ENERGY HADRON COLLISIONS. 25-69

SKYLAB
DEDUCED NEUTRON ENERGY SPECTRA ON SKYLAB. 25-43

SLAB
NUMERICAL EVALUATION OF THE AZIMUTHALLY DEPENDENT ALBEDO PROBLEM IN SLAB GEOMETRY. 21-55

SLABS
SORPTION IN INHOMOGENEOUS SLABS. 4-62

SLATER
ON THE VALIDITY OF THE SLATER APPROXIMATION IN ELECTRON SCREENING IN EXOTIC ATOMS. 4-47

SLIP
SINUOSITY OF STRIKE - SLIP FAULT TRACES. 11-52

SLOPE
DEPENDENCE OF LITHIUM DRIFTED GERMANIUM DETECTOR EFFICIENCY SLOPE ON SOURCE TO DETECTOR DISTANCE. 19-4

DETERMINATION OF ELLIPSES SATISFYING VARIOUS POINT SLOPE CONDITIONS. 21-28

SLOWING-IN
SLOWING-IN DISTRIBUTION OF FAST PARTICLES RELEASED IN MAXWELLIAN PLASMA. 10-125

SMALL
CALCULATIONS ON THE EXCITED STATES OF SMALL MOLECULES. 4-8

INTERACTIONS OF SMALL MOLECULES WITH COPPER(I) PHOSPHINE COMPLEXES. 9-12

INTERACTIONS OF SULFUR CONTAINING SMALL MOLECULES WITH ORGANOPHOSPHINE COPPER(I) COMPLEXES. 9-13

RESPIRATORY PROTECTION: OSHA AND THE SMALL BUSINESSMAN. 17-50

NONDESTRUCTIVE ASSAY OF INVENTORY VERIFICATION SAMPLES AT THE LASL VAN DE GRAAFF SMALL SAMPLE ASSAY STATION. 26-13

ROLE OF THE SMALL ACCELERATOR IN THE NONDESTRUCTIVE ASSAY LABORATORY. 26-24

SN
FIREBALL CALCULATIONS WITH THE SN METHOD. 18-14

SNM
CONTINUOUS INVENTORY IN SNM STORAGE FACILITIES. 26-4

CONTINUOUS INVENTORY IN SNM STORAGE FACILITIES. 26-5

SNOWSTORM
ANOMOLOUS LOCAL SNOWSTORM IN NEW MEXICO. 30-3

SNR
CALCULATION OF SNR (SUPERNOVA REMNANT) INTERACTION. 3-6

SODIUM
COPRECIPITATION OF URANIUM AND PLUTONIUM OXALATES USING SODIUM FORMALDEHYDE SULFOXYLATE REDUCTION AND DIETHYL OXALATE HYDROLYSIS PRECIPITATION. 2-7

SYNTHESES WITH STABLE ISOTOPES: SODIUM CYANIDE - CARBON -13. 7-18

ALBITE ALTERATION IN A SODIUM CARBONATE SOLUTION. 11-2

DAMAGE THRESHOLDS IN ZINC SELENIDE, A/R COATED SODIUM CHLORIDE AND MICROMACHINED MIRRORS BY 10.6 MICRON MULTIJOULE, NANOSECOND PULSES. 20-21

POSTIRRADIATION RESULTS AND EVALUATION OF SODIUM BONDED URANIUM - PLUTONIUM CARBIDE FUEL ELEMENTS IRRADIATED IN EBR-II. INTERIM REPORT. 28-27

CALCULATED CONSEQUENCES OF SODIUM BOND LOSS FROM ADVANCED FUEL ELEMENTS. 28-4

CONSEQUENCES OF SODIUM BOND LOSS FROM AN LMFBR (LIQUID METAL FUELED BREEDER REACTOR) CARBIDE FUEL ELEMENT. 28-8

SOFT
MICRO-CHANNEL PLATE AS A PARALLEL BORE COLLIMATOR FOR SOFT X RAY IMAGING. 19-14

REVIEW OF SOFT X RAY LASERS USING CHARGE EXCHANGE. 20-133

SOFTWARE
PROSPECTIVE CAPABILITIES IN SOFTWARE. 21-67

SOIL
SAMPLING MIXTURES OF SOIL AND CARBON -14 LABELED PLANT MATERIALS. 2-24

DECOMPOSITION OF CARBON -14 LABELED PLANT MATERIALS IN A GRASSLAND SOIL UNDER FIELD CONDITIONS. 5-49

DECAY CHARACTERISTICS OF SOIL THERMOLUMINESCENCE. 11-11

MODEL FOR PREDICTING THE REDISTRIBUTION OF PARTICULATE CONTAMINANTS FROM SOIL SURFACES. 11-30

PLUTONIUM, AMERICIUM AND URANIUM CONCENTRATIONS IN NEVADA TEST SITE SOIL PROFILES. 17-43

SOILS
SAMPLING OF SOILS FOR RADIOACTIVITY: PHILOSOPHY, EXPERIENCE, AND RESULTS. 17-55

SOLA
SOLA: A NUMERICAL SOLUTION ALGORITHM FOR TRANSIENT FLUID FLOWS. 18-47

SOLAR
FAST SOLAR ELECTRONS, INTERPLANETARY PLASMA AND KM WAVE TYPE III RADIO BURSTS OBSERVED FROM THE IMP-6 SPACECRAFT. 1-10

GRADIENTS OF SOLAR PROTONS IN THE HIGH LATITUDE MAGNETOTAIL AND THE CONVECTION ELECTRIC FIELD. 1-11

HEAT FLUX INSTABILITIES IN THE SOLAR WIND. 1-12

SOLAR WIND ELECTRONS. 1-24

SOLAR WIND HEAVY ION ABUNDANCES. 1-25

SOLAR WIND STREAM EVOLUTION AT LARGE HELIOCENTRIC DISTANCES: EXPERIMENTAL DEMONSTRATION AND THE TEST OF A MODEL. 1-26

ELECTROMAGNETIC ION BEAM INSTABILITIES IN THE SOLAR WIND. 1-5

ELECTRON HEAT FLUX INSTABILITIES IN THE SOLAR WIND. 1-6

EVIDENCE FOR LOCAL ION HEATING IN SOLAR WIND HIGH SPEED STREAMS. 1-8

EVIDENCE FOR THE REGULATION OF SOLAR WIND HEAT FLUX AT 1 AU. 1-9

ABSOLUTE INTENSITIES OF THE OUTER CORONA FROM THE JUNE 30, 1973 TOTAL SOLAR ECLIPSE. 3-1

CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES. 1. AIRBORNE INSTRUMENTATION AND RESULTS. 3-10

CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES. 2. 30 MAY 1965 RESULTS, DECONVOLUTION AND INTERPRETATION. 3-11

EXTENSIVE SPATIAL DISTRIBUTION OF 569.4 NM CALCIUM XV EMISSION IN THE SOLAR CORONA DURING THE ECLIPSE OF 1973. 3-15

IDENTIFICATION OF SOLAR FLARE IRON(XVIII) TO IRON(XXIII) EMISSION LINES FROM 2S(N)2P(K)-2S(N-1)2P(K+1) TRANSITIONS. 3-21

OBSERVED CORONAL TEMPERATURES AT 1.37 SOLAR RADII IN THE REGION OF A HELMET STRUCTURE. 3-32

SOLAR WIND DEVELOPMENT IN THE MIDDLE CORONA. 3-40

INTEGRATED SOLAR ENERGY COLLECTOR FINAL SUMMARY REPORT. 12-11

MODELING AND HYBRID SIMULATION OF SOLAR ENERGY SYSTEMS. 12-12

PANEL ON ENERGY STORAGE AND SOLAR ENERGY. 12-14

PROGRESS REPORT, RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES FOR THE PERIOD JULY 1 TO SEPTEMBER 30, 1974. 12-16

RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES. 12-17

SOLAR HEATING HANDBOOK FOR LOS ALAMOS. 12-20

STRUCTURALLY INTEGRATED STEEL SOLAR COLLECTOR DEVELOPMENT 12-21

CONTROL SYSTEM DESIGN AND SIMULATION FOR A SOLAR HEATED AND COOLED BUILDING. 12-3

DESIGN CONSIDERATIONS OF AIR COOLED COLLECTOR/ROCK-BIN STORAGE SOLAR HEATING SYSTEMS. 12-4

DESIGN OF CONTROLS FOR A SOLAR HEATED BUILDING. 12-5

DYNAMIC SIMULATION OF A SOLAR HEATED AND COOLED BUILDING. 12-7

SOLID
SELF CONSISTENT PHONON CALCULATIONS AND EQUATIONS OF STATE OF SOLID HYDROGEN AND DEUTERIUM. 4-60

IS SOLID HELIUM -3 A HEISENBERG ANTIFERROMAGNET 8-22

NEUTRON DIFFRACTION STUDIES OF DEUTERIUM - SOLID STRUCTURES AND TRANSITIONS. 9-14

SOLID EARTH GEOSCIENCES RESEARCH ACTIVITIES AT LASL, JANUARY 1 - JUNE 30, 1975. 11-53

SOLID EARTH GEOSCIENCES RESEARCH ACTIVITIES AT LASL, JULY 1 - DECEMBER 31, 1974. 11-54

SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE II: SOLID PROPELLANT FIRE. 17-52

PULSE COMPRESSION FOR MORE EFFICIENT OPERATION OF SOLID STATE LASER AMPLIFIER CHAINS. 2. 20-122

METASTABLE FCC PLUTONIUM - CERIUM SOLID SOLUTIONS. 23-40

LATTICE DYNAMICS AND STRUCTURAL PROPERTIES OF SOLID NITROGEN. 29-4

SOLID STATE PROPERTIES OF FLUORIDE CONTAINING COMPOUNDS OF 5F ELEMENTS. 29-5

CHARACTERIZATION OF TRANSURANIC SOLID WASTES FROM A PLUTONIUM PROCESSING FACILITY. 30-11

DESIGN CRITERIA (REVISED) FOR TRANSURANIC CONTAMINATED SOLID WASTE TREATMENT DEVELOPMENT FACILITY. 30-18

ENVIRONMENTAL EVALUATION OF SOLID RADIOACTIVE WASTE DISPOSAL AREAS. 30-24

MEASUREMENT OF TRANSURANIC SOLID WASTES AT THE 10-NCI/G ACTIVITY LEVEL. 30-46

MEASUREMENT OF TRANSURANIC SOLID WASTES AT THE 10-NCI/G ACTIVITY LEVEL. 30-47

TRANSURANIC SOLID WASTE STUDIES AT LOS ALAMOS. 30-92

TRITIUM CONTAINMENT AFTER BURIAL OF CONTAMINATED SOLID WASTE. 30-93

SOLIDS
COMPRESSION AND BONDING OF ICE VII AND AN EMPIRICAL LINEAR EXPRESSION FOR THE ISOTHERMAL COMPRESSION OF SOLIDS. 4-11

STRUCTURE AND HINDERED MOTION OF BORON (3) HYDROGEN(8) ANIONS IN SOLIDS: AN NMR (NUCLEAR MAGNETIC RESONANCE) STUDY. 14-12

STRUCTURE AND MOTION OF B3H8- ANIONS IN SOLIDS: A BORON AND PROTON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY. 14-13

EFFECT OF RIGIDITY ON SHOCK WAVES IN SOLIDS. 15-7

SOLITARY
THEORY AND SIMULATION OF THE PARAMETRIC DECAY OF WHISTLER SOLITARY WAVES. 10-144

SOLUBLE
EVALUATION OF SOLUBLE ANTIGEN FLUORESCENT ANTIBODY TEST FOR ANTIBODIES TO TRICHINELLA SPIRALIS IN EXPERIMENTALLY INFECTED SWINE. 5-61

SOLUTION
TIME DEPENDENT SOLUTION TO INTERSTITIAL DIFFUSION IN A TEMPERATURE GRADIENT. 7-24

ALBITE ALTERATION IN A SODIUM CARBONATE SOLUTION. 11-2

FOURIER TRANSFORM CARBON -13 NUCLEAR MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 1. EQUILIBRIUM QUOTIENTS FROM RELATIVE ABUNDANCES OF SOLUTION SPECIES 14-7

APPROXIMATE SOLUTION OF THE ADIABATIC EXPLOSION PROBLEM. 15-1

NUMERICAL METHODS FOR SOLUTION OF THE INTEGRAL EQUATIONS OF MULTI-DIMENSIONAL RADIATION TRANSPORT. 18-31

SOLA. A NUMERICAL SOLUTION ALGORITHM FOR TRANSIENT FLUID FLOWS. 18-47

DIRECT SOLUTION OF THE DISCRETE POISSON EQUATION IN O(N-SQUARED) OPERATIONS. 20-27

CANONICAL RESOLUTION OF THE MULTIPLICITY PROBLEM FOR U(3): AN EXPLICIT AND COMPLETE CONSTRUCTIVE SOLUTION. 21-15

ANALYSIS OF SOME GALERKIN SCHEMES FOR THE SOLUTION OF NONLINEAR TIME DEPENDENT PROBLEMS. 21-6

EFFECTS OF SOLUTION AND INTERMEDIATE HEAT TREATMENTS ON THE NOTCH - RUPTURE BEHAVIOR OF INCONEL 718. 23-17

METHOD OF CHARACTERISTICS FOR THE TRANSPORT EQUATION SOLUTION. 24-15

ONETRAN. A DISCRETE ORDINATES FINITE ELEMENT CODE FOR THE SOLUTION OF THE ONE DIMENSIONAL MULTIGROUP TRANSPORT EQUATION. 24-17

EXPLOSION POWER - AN ENERGY SOLUTION 30-25

SOLUTIONS
SPECTROPHOTOMETRIC DETERMINATION OF PLUTONIUM IN SOLUTIONS CONTAINING LARGE AMOUNTS OF ALUMINUM, CALCIUM, AND MAGNESIUM. 2-27

KINETICS OF THE OXIDATION - REDUCTION REACTIONS OF URANIUM, NEPTUNIUM, PLUTONIUM AND AMERICIUM IN AQUEOUS SOLUTIONS. 7-10

KINETICS OF THE REACTION BETWEEN PLUTONIUM(III) AND CHROMIUM(VI) IN AQUEOUS PERCHLORATE SOLUTIONS. 7-11

FOURIER TRANSFORM CARBON -13 MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 2. LIGAND SUBSTITUTION PROCESSES. 7-7

FOURIER TRANSFORM CARBON -13 NUCLEAR MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 1. EQUILIBRIUM QUOTIENTS FROM RELATIVE ABUNDANCES OF SOLUTION SPECIES. 14-7

ON THE MULTIPLICITY OF SOLUTIONS OF A DIFFERENTIAL EQUATION ARISING IN CHEMICAL REACTOR THEORY. 21-60

METASTABLE FCC PLUTONIUM - CERIUM SOLID SOLUTIONS. 23-40

ANALYTIC TRANSPORT THEORY SOLUTIONS FOR STEADY SOURCES IN PURE ABSORBERS. 24-1

SEPARABLE SOLUTIONS FOR DIRECTLY INTERACTING PARTICLE SYSTEMS. 25-204

SOLVATED
MULTIPLE SCATTERING TREATMENT OF THE SOLVATED ELECTRON IN WATER. 4-41

SOLVE
OPTION: A COMPUTER CODE TO SOLVE STEADY STATE FLUID THERMAL ENGINEERING PROBLEMS. 21-62

SOMATIC
MODIFIED REPLICATE PLATING TECHNIQUE FOR USE IN SOMATIC CELL MUTANT SELECTION. 5-102

SORPTION
SORPTION IN INHOMOGENEOUS SLABS. 4-62

SORACTING PARTICLE SYSTEMS. 25-204

SOLVATED
MULTIPLE SCATTERING TREATMENT OF THE SOLVATED ELECTRON IN WATER. 4-41

SOLVE
OPTION: A COMPUTER CODE TO SOLVE STEADY STATE FLUID THERMAL ENGINEERING PROBLEMS. 21-62

SOMATIC
MODIFIED REPLICATE PLATING TECHNIQUE FOR USE IN SOMATIC CELL MUTANT SELECTION. 5-102

SORPTION
SORPTION IN INHOMOGENEOUS SLABS. 4-62

SORTER
TRANSFER OF MOUSE IGG2 PRODUCTION BY IGM BEARING SPLEEN CELLS SEPARATED BY A FLUORESCENCE ACTIVATED CELL SORTER. 7-141

SORTING
MULTIPARAMETER CELL SORTING AND ANALYSIS. 5-103

DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, APRIL 1 - JUNE 30, 1975. 5-50

DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, SEPTEMBER 1, 1974 - MARCH 1, 1975. 5-51

AUTOMATED CANCER CELL SORTING AND ANALYSIS, APRIL 1 - SEPTEMBER 30, 1975 5-7

AUTOMATED CANCER CELL SORTING AND ANALYSIS, APRIL 1, 1974 - MARCH 31, 1975. 5-8

INTRODUCTION TO FLOW SYSTEMS FOR CELL ANALYSIS AND SORTING. 5-82

LASER FLOW MICROPHOTOMETERS FOR RAPID ANALYSIS AND SORTING OF INDIVIDUAL MAMMALIAN CELLS. 5-92

SOUND
EQUATION OF STATE OF NITROGEN TO 21 KBAR FROM SIMULTANEOUS MEASUREMENT OF P V T AND SOUND VELOCITY. 4-22

MELTING PROPERTIES AND SOUND VELOCITY OF NITROGEN TO 21 KILOBARS. 4-38

SOUND VELOCITY AND THE EQUATION OF STATE OF NITROGEN(2) TO 22 KBAR 4-63

ELASTIC CONSTANTS AND SOUND VELOCITIES. 4. THE ELASTIC CONSTANTS OF PLUTONIUM 23-18

SOURCE
DEUTERIUM FLOW LOOP FOR A SUPERSONIC GAS TARGET INTENSE NEUTRON SOURCE. 10-20

INTENSE NEUTRON SOURCE FACILITY FOR THE FUSION ENERGY PROGRAM 10-62

LINEAR THETA PINCH AS A 14 NEUTRON SOURCE. 10-72

LINEAR THETA PINCH NEUTRON SOURCE. 10-74

LTPF: A LINEAR THETA PINCH NEUTRON SOURCE. 10-75

GEOCHEMICAL IDENTIFICATION OF THE BRINE SOURCE OF THE SABKHAT AR-RIYAS, SAUDI ARABIA. 11-18

EVACUATED REFRIGERANT CONTAINER AS A SOURCE OF VACUUM FOR AIR SAMPLING 17-26

DEPENDENCE OF LITHIUM DRIFTED GERMANIUM DETECTOR EFFICIENCY SLOPE ON SOURCE TO DETECTOR DISTANCE. 19-4

APPROXIMATE SPHERICAL BLAST THEORY INCLUDING SOURCE MASS. 20-9

POLARIZED H MINUS SOURCE FOR LAMPF. 21-65

PROTOTYPE HIGH CURRENT, HIGH DUTY FACTOR NEGATIVE HYDROGEN ION SOURCE FOR LAMPF. 22-44

COARSE MESH REBALANCE METHODS COMPATIBLE WITH THE SPHERICAL HARMONIC FICTITIOUS SOURCE IN NEUTRON TRANSPORT CALCULATIONS. 24-6

PION PRODUCTION FROM A CLASSICAL SOURCE: TRANSPORT AND HYDRODYNAMICAL PROPERTIES 25-171

SYSTEM CONTROL FOR THE MODULATED CALIFORNIUM -252 SOURCE SHUFFLER. 26-27

CALIFORNIUM -252 NEUTRON SOURCE SYSTEMS FOR THE ASSAY OF URANIUM AND PLUTONIUM IN FUEL RODS. 26-3

HIGH TEMPERATURE NUCLEAR REACTORS AS AN ENERGY SOURCE FOR HYDROGEN PRODUCTION. 28-17

SOURCES
RECOVERY OF SPALLOGENIC, CARRIER FREE YTTRIUM -88 FOR RADIOISOTOPIC PHOTONEUTRON SOURCES. 7-15

INVESTIGATION OF THE SOURCES OF ASYMMETRY EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT IN TYPE II TANTALUM WIRES. 8-20

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES OCTOBER 1 - DECEMBER 31, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-20

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, APRIL 1 - JUNE 30, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-21

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JANUARY 1 - MARCH 31, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-22

PROGRESS REPORT. ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES. JULY 1 THROUGH SEPTEMBER 30, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-45

DEGRADATION OF PIONEER TYPE TANTALUM ALLOY - PLUTONIUM DIOXIDE HEAT SOURCES. 23-9

ANALYTIC TRANSPORT THEORY SOLUTIONS FOR STEADY SOURCES IN PURE ABSORBERS. 24-1

MONTE CARLO CALCULATION OF THE GAMMA RAY HEATING IN A PHOEBUS 1 NOZZLE FROM CORE SOURCES. 30-49

SOUTHWARD
PROLONGED EARTHWARD FLOW OF MAGNETOTAIL PLASMA ASSOCIATED WITH STEADY SOUTHWARD IMF. 1-20

RESPONSE OF THE PLASMA SHEET AT APPROXIMATELY 18 EARTH RADII TO SUDDEN SOUTHWARD TURNINGS OF THE INTERPLANETARY MAGNETIC FIELD. 1-23

SOVIET
COMPARISON OF U.S. - ALLIED AND SOVIET TACTICAL NUCLEAR FORCE CAPABILITIES AND POLICIES. 30-12

SPACE
COMPARISON OF THE COMBINED PHASE SPACE TRAJECTORY AND QUASICLASSICAL TRAJECTORY METHODS IN THE STUDY OF REACTION DYANMICS: HYDROGEN + IODINE(2) AND HYDROGEN + BROMINE(2). 6-4

FREE SPACE BOUNDARY CONDITIONS. 10-42

ANALYSIS OF HOMOPOLAR GENERATORS AND SUPERCONDUCTING INDUCTIVE ENERGY STORAGE SYSTEMS AS POWER SUPPLIES FOR HIGH ENERGY, SPACE BASED LASERS. 20-7

IMPROVEMENT IN OXIDATION RESISTANCE OF THE LEADING EDGE THERMAL PROTECTION FOR A SPACE SHUTTLE. 23-30

COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATION FOR THE FULLY OFF SHELL TWO NUCLEON T MATRIX. 25-38

FREE SPACE BOUNDARY CONDITIONS FOR THE TIME DEPENDENT WAVE EQUATION. 27-7

JULY 16TH NUCLEAR EXPLOSION SPACE - TIME RELATIONSHIPS. 30-34

QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC R AND D PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1969. PART 2. 30-71

SPACE ELECTRIC POWER R AND D PROGRAM, QUARTERLY STATUS REPORT FOR THE PERIOD ENDING APRIL 30, 1969. 30-85

SPACECRAFT
FAST SOLAR ELECTRONS, INTERPLANETARY PLASMA AND KM WAVE TYPE III RADIO BURSTS OBSERVED FROM THE IMP-6 SPACECRAFT. 1-10

IMP-6 AND -8 SPACECRAFT POTENTIAL IN THE MAGNETOTAIL. 1-14

GENERAL CHARACTERISTICS OF PULSED PROPULSION SPACECRAFT. 30-29

SPACES
GREATEST INTEGER THEOREM FOR FIBONACCI SPACES. 21-38

SPALLATION
SPALLATION CROSS SECTIONS AND THE LAMPF MEDICAL RADIOISOTOPE PROGRAM 5-135

SPALLATION OF COPPER BY 190 MEV PIONS AND 349 MEV PROTONS. 25-207

SPALLING
SPALLING OF METAL PLATES 23-52

SPALLOGENIC
RECOVERY OF SPALLOGENIC, CARRIER FREE YTTRIUM -88 FOR RADIOISOTOPIC PHOTONEUTRON SOURCES. 7-15

SPATIAL
EXTENSIVE SPATIAL DISTRIBUTION OF 569.4 NM CALCIUM XV EMISSION IN THE SOLAR CORONA DURING THE ECLIPSE OF 1973. 3-15

SPATIAL DISTRIBUTION OF EFFECTS OF NEGATIVE PIONS ON CULTURED HUMAN CELLS. 5-136

SPECIAL
SPECIAL REPORT PRESENTED AT JULY MEETING WITH C. A. THOMAS ON FINAL PURIFICATION AND METALLURGY OF 49. 23-53

SPECIAL REPORT PRESENTED AT MAY MEETING WITH C. A. THOMAS ON FINAL PURIFICATION AND METALLURGY OF 49. 23-54

SPECIES
FOURIER TRANSFORM CARBON -13 NUCLEAR MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 1. EQUILIBRIUM QUOTIENTS FROM RELATIVE ABUNDANCES OF SOLUTION SPECIES. 14-7

SPECIFIC
CELL CYCLE SPECIFIC CHANGES IN ORGANIZATION OF CHROMATIN DETECTED BY POLYANION MEDIATED CHROMATIN DECONDENSATION. 5-27

CELL CYCLE SPECIFIC CHANGES IN CHROMATIN ORGANIZATION. 5-28

LACK OF SPECIFIC CORRELATION OF THE DEOXYCYTIDINE TRIPHOSPHATE POOL LEVEL WITH RATE OF DNA SYNTHESIS 5-91

HYDRATION ENERGIES AND SPECIFIC INFLUENCE OF OXO COMPLEXES AND HIGH COORDINATION NUMBERS ON THE PREDICTED CHEMISTRY OF SUPERHEAVY ELEMENTS. 7-9

EVIDENCE FOR ORDER DISORDER IN PLUTONIUM CARBIDE (0.80) AT LOW TEMPERATURES THROUGH SPECIFIC HEAT MEASUREMENTS. 29-2

SPECIFICATIONS
SPECIFICATIONS AND TEST PROCEDURES FOR AIRLINE TYPE SUPPLIED AIR SUITS. 17-56

SPECTRA
LASER PRODUCED L-SERIES X RAY SPECTRA. 4-34

RESONANT LINE AND SATELLITE SPECTRA FROM ONE, TWO, AND THREE ELECTRON IONS IN LASER GENERATED PLASMAS. 4-57

SATELLITE LINE SPECTRA FROM LASER PRODUCED PLASMAS. 4-58

CIRCULAR DICHROISM SPECTRA OF POLY D(AC)-D(GT)*, POLY R(AC)-R(GU)*, AND HYBRIDS POLY D(AC)-R(GU)* AND POLY R(AC)-D(GT)* IN THE PRESENCE OF ETHANOL. 5-40

DYNAMICS OF THE DENSE PLASMA FOCUS AS DETERMINED FROM AN ANALYSIS OF LASER SCATTERING SPECTRA. 10-23

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13: THE EFFECT OF TEMPERATURE AND LIGHT. 14-1

QUANTITATIVE ANALYSIS OF CARBON - CARBON COUPLING IN THE CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF MOLECULES BIOSYNTHESIZED FROM CARBON -13 ENRICHED PRECURSORS 14-10

FISSION PRODUCT GAMMA AND (GAMMA,NEUTRON) SPECTRA AND GAMMA DECAY HEAT 16-2

FISSION PRODUCT GAMMA RAY AND PHOTONEUTRON SPECTRA. 16-3

EMITTED ELECTRON SPECTRA FROM PLASMAS PRODUCED WITH NEODYMIUM AND CARBON DIOXIDE LASERS. 20-36

HIGH ENERGY NEUTRON SPECTRA AT THE LAMPF RADIATION EFFECTS FACILITY 22-18

MEASUREMENT OF THE 0 DEGREE NEUTRON SPECTRA FROM 647 AND 800 MEV PROTON BOMBARDMENT OF LIGHT NUCLEI. 22-27

ANGULAR MOMENTUM EFFECTS IN THE SPECTRA OF RESIDUAL NUCLEI. 25-12

NEUTRON SPECTRA FROM PROTON BOMBARDMENT OF DEUTERIUM AT 647 AND 800 MEV. 25-134

PHONEX, A COMPUTER PROGRAM TO CALCULATE PHOTONEUTRON SPECTRA. 25-159

CHARACTERISTICS OF RADIATION DAMAGE PARAMETERS IN VARIOUS NEUTRON SPECTRA 25-26

DEDUCED NEUTRON ENERGY SPECTRA ON SKYLAB. 25-43

EFFECTIVE TWO BODY INTERACTION IN SIMPLE NUCLEAR SPECTRA. 25-53

SPECTRAL
MASS SPECTRAL INTENSITIES OF INORGANIC FLUORINE CONTAINING COMPOUNDS. 6-10

SPECTRAL OBSERVATION OF ELECTROMAGNETIC WAVE DECAY DUE TO THE OTS AND DECAY PARAMETRIC INSTABILITIES. 10-126

SPECTRAL ACCEPTANCE FOR SECOND HARMONIC GENERATION IN CD*A (CESIUM DIDEUTERIUM ARSENATE) 20-137

SPECTROCHEMICAL
ALLCAL: AN INTERACTIVE BASIC PROGRAM FOR SPECTROCHEMICAL CALCULATIONS. 2-1

SPECTROMETER
PRELIMINARY DESIGN AND PERFORMANCE OF AN ADVANCED GAMMA RAY SPECTROMETER FOR FUTURE ORBITER MISSIONS. 3-35

TRISTAN MAGNETIC SPECTROMETER SYSTEM. 13-17

PERFORMANCE OF THE LASL Q3D SPECTROMETER AND HELIX DETECTOR SYSTEM. 25-157

Q3D SPECTROMETER WITH A HELIX DETECTOR SYSTEM. 25-186

SPECTROMETRY
DETERMINATION OF OXYGEN -17 AND OXYGEN -18 ISOTOPIC ABUNDANCES IN PLUTONIUM -238 MATERIALS BY GAMMA RAY SPECTROMETRY. 2-9

SPECTROPHOTOMETRIC
SPECTROPHOTOMETRIC DETERMINATION OF PLUTONIUM IN SOLUTIONS CONTAINING LARGE AMOUNTS OF ALUMINUM, CALCIUM, AND MAGNESIUM. 2-27

SPECTROPHOTOMETRY
SPECTROPHOTOMETRY OF COOL CARBON STARS 3-41

SPECTROSCOPIC
COMPILATION OF SPECTROSCOPIC OBSERVATION OF AIR AROUND ATOMIC BOMB EXPLOSIONS 30-13

SPECTROSCOPY
INSTANT SPECTROSCOPY IN THE VISIBLE, ULTRAVIOLET, AND VACUUM ULTRAVIOLET WITH POLAROID FILM. 2-15

GEOCHEMICAL MAPPING OF THE MOON BY ORBITAL GAMMA RAY SPECTROSCOPY. 3-18

HIGH ANGULAR RESOLUTION SECONDARY ELECTRON SPECTROSCOPY: KIKUCHI CORRELATIONS FOR ARSENIC (0001). 9-11

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF (2- CARBON -1)- CARBOXYMETHYLCYTOCHROME C. 14-2

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF WHOLE CELLS AND OF CYTOCHROME C FROM NEUROSOPORA CRASSA GROWN WITH CARBON -13 METHIONINE 14-3

CARBON -13 PARTIALLY RELAXED FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF ORGANOCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13 14-5

LASER SPECTROSCOPY. 20-81

TECHNIQUES WITH CALIFORNIUM -252 FOR NEUTRON CAPTURE GAMMA RAY SPECTROSCOPY. 25-216

TIME OF FLIGHT NEUTRON SPECTROSCOPY USING APPROXIMATELY 20 METER FLIGHT PATHS TO A NUCLEAR DEVICE 25-223

SPECTRUM
ANALYSIS OF A SCORPIUS X-1 X RAY SPECTRUM OBTAINED WITH COOLED SILICON (LI) DETECTORS. 3-3

VIBRATIONAL SPECTRUM AND FORCE FIELD OF MOLYBDENUM HEXAFLUORIDE 4-69

SPECTRUM OF IDEAL MAGNETOHYDRODYNAMICS OF AXISYMMETRIC TOROIDAL SYSTEMS 10-127

SYNCHROTRON RADIATION SPECTRUM FOR A RELATIVISTIC PLASMA COLUMN 10-143

ENERGY SPECTRUM OF INJECTED FUSSILE IONS IN TWO COMPONENT FUSION SYSTEMS 10-29

MHD SPECTRUM OF DIFFUSE TOKAMAK EQUILIBRIA. 10-80

ON THE SPECTRUM OF THE INHOMOGENEOUS VLASOV EQUATION 10-92

NUCLEAR CHARGE DISTRIBUTION IN FISSION SPECTRUM NEUTRON INDUCED FISSION: FRACTIONAL CUMULATIVE YIELDS OF RARE GAS NUCLIDES FROM FISSION OF URANIUM -235 AND URANIUM -238 16-10

ABSORPTION SPECTRUM OF URANIUM HEXAFLUORIDE FROM 2000 TO 4200 ANGSTROMS. 20-1

TEMPERATURE DEPENDENT ABSORPTION SPECTRUM OF THE NU(3) BAND OF SULFUR HEXAFLUORIDE AT 10.6 MICRONS 20-150

TIME RESOLVED OUTPUT SPECTRUM FROM A HYDROGEN FLUORIDE LASER USING MIXTURES OF SULFUR HEXAFLUORIDE AND HYDROGEN IODIDE. 20-156

HIGH RESOLUTION Q-BRANCH SPECTRUM FOR CARBON DIOXIDE AT 618 MILLIMETERS 20-49

CALCULATED NEUTRON SPECTRUM FROM 800 MEV PROTONS INCIDENT ON A COPPER BEAM STOP. 22-6

CENTRAL NEUTRON SPECTRUM OF THE FAST CRITICAL ASSEMBLY BIG-TEN 24-5

NEUTRON SPECTRUM FROM AN ENRICHED URANIUM -235 SPHERE. 25-135

NEUTRON SPECTRUM FROM AN ORALLOY SPHERE 25-136

PHOTON SPECTRUM IN PION CAPTURE ON TRITIUM. 25-165

SPECTRUM AND SHIELDING MEASUREMENTS AND CALCULATIONS OF NEUTRONS PRODUCED BY 800 MEV PROTONS. 25-208

SPEED
EVIDENCE FOR LOCAL ION HEATING IN SOLAR WIND HIGH SPEED STREAMS. 1-8

HIGH SPEED OPTICAL ANALYSIS OF MICROSCOPIC PARTICLES. 5-75

HIGH SPEED DIGITIZING WITH CAMAC. 20-50

MODEL FOR HEAT CONDUCTION WITH FINITE SIGNAL SPEED. 27-11

SPEEDS
CALCULATING THREE DIMENSIONAL FLUID FLOWS AT ALL SPEEDS WITH AN EULERIAN-LAGRANGIAN COMPUTING MESH. 18-3

RICE: A COMPUTER PROGRAM FOR MULTICOMPONENT CHEMICALLY REACTIVE FLOWS AT ALL SPEEDS. 18-41

SPENT
SAFEGUARDS ASPECTS OF SPENT NUCLEAR FUEL. 26-25

SPHERE
PERFORMANCE OF MULTIHUNDRED WATT FUELED SPHERE ASSEMBLIES IN THE SAFETY SEQUENTIAL TEST PROGRAM. 17-35

SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE III: FSA (FUEL SPHERE ASSEMBLY) IMPACTS. 17-53

ALPHA PARTICLE ENERGY ABSORPTION IN A REACTING DEUTERIUM - TRITIUM SPHERE. 20-3

NEUTRON SPECTRUM FROM AN ENRICHED URANIUM -235 SPHERE. 25-135

NEUTRON SPECTRUM FROM AN ORALLOY SPHERE. 25-136

SPHERES
HYDRODYNAMICS AND BURN OF OPTIMALLY IMPLODED DEUTERIUM - TRITIUM SPHERES 20-51

SPHERICAL
DIFFUSION ANALYSES FOR SYSTEMS OF SPHERICAL PARTICLES. 2-12

STATISTICAL WEIGHTS FOR OCTAHEDRAL SPHERICAL TOP MOLECULES. 4-65

STEADY ABLATION OF LASER TARGETS IN SPHERICAL GEOMETRY 1 THE MODEL 20-140

STEADY ABLATION OF LASER TARGETS IN SPHERICAL GEOMETRY 2 PHYSICAL RESULTS 20-141

LASER DRIVEN IMPLOSION OF SPHERICAL DEUTERIUM - TRITIUM TARGETS TO THERMONUCLEAR BURN CONDITIONS 20-68

APPROXIMATE SPHERICAL BLAST THEORY INCLUDING SOURCE MASS 20-9

COARSE MESH REBALANCE METHODS COMPATIBLE WITH THE SPHERICAL HARMONIC FICTITIOUS SOURCE IN NEUTRON TRANSPORT CALCULATIONS 24-6

DISCRETE ORDINATE TO SPHERICAL HARMONIC CONVERSIONS FOR RAY EFFECT MITIGATION IN X-Y GEOMETRY 24-9

SPHERICALLY
EFFECT OF VARIABLE ENTROPY IN THE THEORY OF SPHERICALLY CONVERGENT DETONATION WAVES. 15-8

SPIE
OPTICAL METHODS IN ENERGY CONVERSION, SPIE SEMINAR IN DEPTH, ROCHESTER, 23-25 JUNE 1975 20-110

SPILL
CALIBRATION OF THE BEAM SPILL CONTROL SYSTEM AT LAMPF 22-7

SPIN
FORMAL DERIVATION OF EFFECTIVE SPIN HAMILTONIANS FOR MACROSCOPIC MAGNETIC INSULATOR SYSTEMS. 4-24

SPIN LATTICE RELAXATION IN AN AMIXNO SYSTEM: APPLICATION TO CARBON -13 RELAXATION IN ENRICHED MOLECULES. 14-11

POTENTIAL WELL SHAPES FOR TENSOR TERMS INVOLVING SPIN 25-177

SPIN DETERMINATION OF RESONANCES IN URANIUM -235 25-209

BHABHA FIRST ORDER WAVE EQUATIONS. 2. MASS AND SPIN COMPOSITION, HAMILTONIANS, AND GENERAL SAKATA-TAKETANI REDUCTIONS 25-21

SPIRAL
FIELD DISTRIBUTIONS IN A SPIRAL RESONATOR. 10-38

DESIGN STUDIES OF HEAVY ION LINEAR ACCELERATORS CONSTRUCTED OF INDEPENDENTLY PHASED SPIRAL RESONATORS. 27-3

SPIRALIS
EVALUATION OF SOLUBLE ANTIGEN FLUORESCENT ANTIBODY TEST FOR ANTIBODIES TO TRICHINELLA SPIRALIS IN EXPERIMENTALLY INFECTED SWINE. 5-61

SPLAT
EVIDENCE FOR THE EXISTENCE OF FAULTING IN A SPLAT COOLED DELTA PLUTONIUM(TITANIUM) ALLOY 9-10

SPLAT COOLING OF SOME ACTINIDE ALLOYS. 23-55

SPLEEN
TRANSFER OF MOUSE IGG2 PRODUCTION BY IGM BEARING SPLEEN CELLS SEPARATED BY A FLUORESCENCE ACTIVATED CELL SORTER. 5-141

SPLINE-GALERKIN
SPLINE-GALERKIN METHODS FOR INITIAL VALUE PROBLEMS WITH VARIABLE COEFFICIENTS. 21-75

SPLINES
ENTRAPOLATED COLLOCATION FOR TWO POINT BOUNDARY VALUE PROBLEMS USING CUBIC SPLINES. 21-33

SPLITTING
INVESTIGATION OF PATTERN RECOGNITION TECHNIQUES FOR THE IDENTIFICATION OF SPLITTING SURFACES IN MONTE CARLO PARTICLE TRANSPORT CALCULATIONS. 21-44

MONTE CARLO SPLITTING SURFACE IDENTIFICATION BY PATTERN RECOGNITION. 21-50

SPLITTINGS
OCTAHEDRAL FINE STRUCTURE SPLITTINGS IN NUC3 OF SULFUR HEXAFLUORIDE. 4-44

SPONTANEOUS
SPONTANEOUS MAGNETIC ORDER IN EXTREMELY DILUTE GOLD - IRON ALLOYS. 8-42

SPOT
SPOT TEST LIMIT OF DETECTION VALUES FOR CARCINOGENIC AROMATIC AMINES AND THEIR HOMOLOGUES AND ANALOGUES. 17-57

SPRINT
ATMOSPHERIC IONIZATION PRODUCED BY SPRINT BURSTS. 4-4

NEUTRON AND GAMMA TRANSPORT CALCULATIONS FOR SPRINT. 24-16

SQUARE
MEAN, MEAN SQUARE AND MOST PROBABLE MOMENTUM FOR A RELATIVISTIC MAXWELLIAN ENSEMBLE. 18-24

STABILITY
RADIAL STELLAR STABILITY AND PULSATION 3-36

PLASMA PARAMETERS AND STABILITY OF THE ZT-1 PINCH EXPERIMENT. 10-102

PROGRAMMING AND STABILITY OF THE ZT-1 EXPERIMENT. 10-107

STABILITY ANALYSIS OF SHARP BOUNDARY VLASOV FLUID SCREW PINCH EQUILIBRIA. 10-128

STABILITY ANALYSIS OF SHARP BOUNDARY VLASOV FLUID SCREW PINCH EQUILIBRIA. 10-129

STABILITY AND DIFFUSION OF THE ZT-1 REVERSED FIELD PINCH. 10-130

STABILITY AND TEMPERATURE MEASUREMENTS ON ZT-1 10-131

STABILITY OF A CLOSED LINE SCYLLAC CONFIGURATION. 10-132

STABILITY OF A DIFFUSE, HIGH BETA, L = 1 SYSTEM. 10-133

STABILITY OF KINK MODES IN HIGH BETA TOKAMAKS. 10-134

STABILITY OF KINK MODES IN HIGH BETA TOKAMAKS. 10-135

STABILITY OF THE REVERSED FIELD PINCH CONFIGURATION TO LOCALIZED PERTURBATIONS. 10-136

TIME DEPENDENT CALCULATIONS OF EQUILIBRIUM AND STABILITY PROBLEMS IN SCYLLAC AND TOKAMAK GEOMETRIES. 10-149

TWO DIMENSIONAL STABILITY OF AN ELECTROMAGNETIC WAVE OBLIQUELY INCIDENT ON A NONUNIFORM PLASMA. 10-153

EQUILIBRIUM AND STABILITY OF HIGH BETA DIFFUSE TOKAMAKS. 10-34

INFLUENCE OF SELF FIELDS ON THE VLASOV EQUILIBRIUM AND STABILITY PROPERTIES OF RELATIVISTIC ELECTRON BEAM - PLASMA SYSTEMS. 10-59

MAGNETOHYDRODYNAMIC STABILITY OF A SHARP BOUNDARY MODEL OF TOKAMAK 10-78

MHD STABILITY OF THE SCYLLAC CONFIGURATION 10-31

CAVITY STABILITY. FINITE ELEMENT ANALYSIS FOR STEADY AND TRANSIENT CREEP 11-5

HIGH TEMPERATURE VACUUM THERMAL STABILITY TESTS OF EXPLOSIVES. 15-13

SYMMETRY AND STABILITY STUDIES OF THERMALLY GENERATED MAGNETIC FIELDS IN LASER PRODUCED PLASMAS. 20-147

IMPLOSION, STABILITY, AND BURN OF MULTISHELL FUSION TARGETS. 20-54

MIXTURE STABILITY IN HIGH POWER PULSED HYDROGEN - FLUORINE CHEMICAL LASERS. 20-95

ANALYSIS OF CAVITY STABILITY BY THE FINITE ELEMENT METHOD. 21-5

STABILIZATION
SCYLLAC FEEDBACK STABILIZATION EXPERIMENTS. 10-119

SCYLLAC FEEDBACK STABILIZATION. 10-120

STABILIZED
EFFECT OF STRAIN RATE ON THE TENSILE PROPERTIES OF ALPHA AND DELTA STABILIZED PLUTONIUM. 23-14

STABILIZING
STABILIZING SUPERCONDUCTORS FOR POWER ENGINEERING APPLICATIONS 8-43

STABLE
STABLE ISOTOPE TECHNOLOGY AND ABNORMAL MAMMALIAN EMBRYONIC DEVELOPMENT. 5-137

PROBLEMS AND POTENTIALITIES OF STABLE ISOTOPES AS TRACERS FOR STUDYING POLLUTANT BEHAVIOR UNDER FIELD CONDITIONS. 7-13

SYNTHESES WITH STABLE ISOTOPES: SODIUM CYANIDE - CARBON -13 7-18

SYNTHESES WITH STABLE ISOTOPES3: UREA (CARBON -13), UREA (CARBON -12), AND UREA (CARBON -13,NITROGEN -15) 7-19

STAGE
ION STAGE BUILDUP IN A THETA PINCH SEEDED WITH IRON. 10-64

STAGED
PROPOSAL FOR THE CONSTRUCTION OF THE STAGED SCYLLAC PROTOTYPE 10-108

STAGED THETA PINCH EXPERIMENT. 10-137

STAGED THETA PINCH EXPERIMENTS. 10-138

STAGED THETA PINCH EXPERIMENTS 10-139

IMPLOSION HEATING STUDIES IN THE SCYLLA 1B, IMPLOSION HEATING, AND STAGED THETA PINCH EXPERIMENTS. 10-56

MAGNETIC FIELD AND PLASMA DENSITY MEASUREMENTS IN THE STAGED THETA PINCH EXPERIMENT. 10-77

STAGES
DIFFERENT DRUGS ARREST CELLS AT A NUMBER OF DISTINCT STAGES IN G2 5-53

SYSTEM FOR STUDYING THE INITIAL STAGES OF GAS - METAL REACTIONS 7-22

STAGING
IMPLOSION AND STAGING IN THETA PINCHES 10-55

STAINING
CELL PREPARATION AND STAINING FOR FLOW SYSTEMS 5-29

STAINS
EVALUATION OF SIX FLUORESCENT PROTEIN STAINS FOR USE IN FLOW MICROFLUOROMETRY 5-60

STANDARD
FTRCOL: A COMPUTER CODE TO GROUP COLLAPSE FTR FILES AND OUTPUT STANDARD CCCC INTERFACE FILES. 21-34

PROPRIETARY, STANDARD, AND GOVERNMENT SUPPORTED NUCLEAR DATA BASES 25-180

STANDARDIZATION
IMPLICATIONS TO THE CTR COMMUNITY OF STANDARDIZATION IN NUCLEAR ANALYSIS CODES 10-54

STANDARDS
ORIGIN OF CURRENT STANDARDS. 17-33

CALIBRATION STANDARDS FOR COUNTING ASBESTOS. 17-4

PROGRESS REPORT RESPIRATOR STUDIES FOR THE AEC DIRECTORATE OF REGULATORY STANDARDS, JANUARY 1 THROUGH JUNE 30, 1974. 17-46

R-MATRIX ANALYSIS OF THE LIGHT ELEMENT STANDARDS. 25-191

NONDESTRUCTIVE ASSAY PHYSICAL STANDARDS AND TODAY'S SAFEGUARDS REQUIREMENTS. 26-14

PHYSICAL STANDARDS AND VALID CALIBRATION. 26-22

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS, JULY 1 - SEPTEMBER 30, 1975. 28-11

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS, APRIL - JUNE 30, 1975, AND FY 1975. 28-12

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, JANUARY 1 THROUGH MARCH 31, 1975. 28-32

QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-33

STANDING
STANDING WAVES AT LOW MACH NUMBER LAMINAR BOW SHOCKS. 1-28

INFLUENCE OF STANDING WAVE FIELDS ON THE LASER DAMAGE RESISTANCE OF DIELECTRIC FILMS. 20-56

STAR
NEUTRON STAR MODELS WITH REALISTIC HIGH DENSITY EQUATIONS OF STATE. 3-28

X RAY STAR. 3-47

GAUSSIAN ELIMINATION FOR DENSE SYSTEMS ON STAR AND A NEW PARALLEL ALGORITHM FOR DIAGONALLY DOMINANT TRIDIAGONAL SYSTEMS. 21-36

STARCH
IODIZED STARCH GRANULES AS A CAUSE OF STARCH PERITONITIS. 5-84

IODIZED STARCH GRANULES AS A CAUSE OF STARCH PERITONITIS. 5-84

STARFISH
HIGH ALTITUDE LOSS CONE AND CHARGE EXCHANGE CALCULATIONS, AND COMPARISON WITH STARFISH DATA. 4-26

STARK
HIGH TEMPERATURE MEASUREMENTS OF THE STARK BROADENED HE-II 4686 ANGSTROM LINE PROFILE. 10-49

STARS
HYDRODYNAMIC EFFECTS IN THE ATMOSPHERES OF VARIABLE STARS. 3-20

SPECTROPHOTOMETRY OF COOL CARBON STARS. 3-41

CONVECTION IN RR LYRAE STARS. 3-9

STATE
MOLECULAR EQUATIONS OF STATE FOR DENSE DUST CLOUDS. 3-27

NEUTRON STAR MODELS WITH REALISTIC HIGH DENSITY EQUATIONS OF STATE. 3-28

EQUATION OF STATE OF NITROGEN TO 21 KBAR FROM SIMULTANEOUS MEASUREMENT OF P V T AND SOUND VELOCITY. 4-22

HUGONIOT EQUATION OF STATE OF THE LANTHANIDES. 4-29

SELF CONSISTENT PHONON CALCULATIONS AND EQUATIONS OF STATE OF SOLID HYDROGEN AND DEUTERIUM. 4-60

SOUND VELOCITY AND THE EQUATION OF STATE OF NITROGEN(2) TO 22 KBAR. 4-63

NONSTEADY STATE DETONATIONS IN ONE DIMENSIONAL PLANE, DIVERGING, AND CONVERGING GEOMETRIES. 15-18

EQUATION OF STATE FOR NONIDEAL EXPLOSIVES. 15-9

MASS AND KINETIC ENERGY MEASUREMENTS OF FRAGMENTS FROM THE ISOMERIC AND EXCITED STATE FISSION OF AMERICIUM -242. 16-7

OBSERVATIONS OF EXCITED STATE ABSORPTION IN ED-2 NEODYMIUM GLASS. 20-106

PULSE COMPRESSION FOR MORE EFFICIENT OPERATION OF SOLID STATE LASER AMPLIFIER CHAINS. 2. 20-122

BAYESIAN RELIABILITY ESTIMATION: STATE OF THE ART FOR THE TIME DEPENDENT CASE. 21-10

OPTION: A COMPUTER CODE TO SOLVE STEADY STATE FLUID THERMAL ENGINEERING PROBLEMS. 21-62

SURVEY OF THE STATE OF THE ART OF FAST SINGLE TRANSIENT ANALOG TO DIGITAL CONVERTER TECHNIQUES. 21-78

SOLID STATE PROPERTIES OF FLUORIDE CONTAINING COMPOUNDS OF 5F ELEMENTS. 29-5

STATES
CONFIGURATION INTERACTION STUDIES OF OZONE AND OZONE POSITIVE ION. GROUND AND EXCITED STATES. 4-12

NEW ELECTRONIC STATES OF N+(2). 4-42

CALCULATIONS ON THE EXCITED STATES OF SMALL MOLECULES. 4-8

DIAGNOSES OF DISEASE STATES BY FLUORESCENT MEASUREMENTS UTILIZING SCANNING LASER BEAMS. 5-52

LIFETIMES OF NEGATIVE PARITY STATES OF SCANDIUM -49 BY THE CALCIUM -48(PROTON, GAMMA)SCANDIUM -49 REACTION. 25-102

ZERO PLUS STATES NEAR THE N=20 NEUTRON SHELL FROM ARGON(TRITON,PROTON) REACTIONS. 25-232

2P-1H STATES IN LEAD -209 EXCITED BY THE METASTABLE BISMUTH -210 (TRITON, ALPHA) REACTION. 25-5

EQUILIBRIUM DEFORMATIONS AND EXCITATION ENERGIES FOR NONCOLLECTIVE STATES IN ODD Z RARE EARTH NUCLEI. 25-67

EXPERIMENTAL SEARCH FOR CONDENSED NUCLEAR STATES. 25-75

ANALOGS OF THE SILICON -28 COLLECTIVE M1 STATES OBSERVED IN THE SILICON -28 (TRITON,HELIUM -3) ALUMINUM -28 REACTION. 25-9

STATIC
R-MATRIX THEORY FOR ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS. 2. ELECTRON - HYDROGEN(2) SCATTERING IN THE STATIC EXCHANGE MODEL. 4-53

BENCHMARK DOPPLER MEASUREMENTS USING A HYBRID STATIC/DYNAMIC HEATING TECHNIQUE. 28-3

STRESS ANALYSIS AND STATIC TESTING OF KIWI GRAPHITE REFLECTOR CYLINDER STRUCTURES. 30-88

STATICS
STATICS AND DYNAMICS OF HEAVY ION COLLISIONS. 25-210

STATION
NONDESTRUCTIVE ASSAY OF INVENTORY VERIFICATION SAMPLES AT THE LASL VAN DE GRAAFF SMALL SAMPLE ASSAY STATION 26-13

STATIONARY
STATIONARY NON-EQUILIBRIUM PROPERTIES OF A QUANTUM MECHANICAL LATTICE WITH SELF CONSISTENT RESERVOIRS. 27-16

STATIONARY NONEQUILIBRIUM PROPERTIES OF A QUANTUM MECHANICAL LATTICE WITH SELF CONSISTENT RESERVOIRS. 27-17

STATIONS
RADIOACTIVE WASTE OUTPUT FROM LASER -FUSION GENERATING STATIONS DURING NORMAL OPERATIONS. 20-127

LASER - FUSION ELECTRIC GENERATING STATIONS BASED ON THE MAGNETICALLY PROTECTED REACTOR CAVITY. 20-65

STATISTICAL
STATISTICAL THERMODYNAMIC PROPERTIES OF HEXAFLUORIDE MOLECULES. 4-64

STATISTICAL WEIGHTS FOR OCTAHEDRAL SPHERICAL TOP MOLECULES. 4-65

THEORETICAL, ANALYTICAL, AND STATISTICAL INTERPRETATION OF ENVIRONMENTAL DATA. 17-59

STATUS
CURRENT STATUS OF INFORMATION OBTAINED FROM PLUTONIUM CONTAMINATED PEOPLE 5-48

CURRENT STATUS OF THE LOS ALAMOS DRY HOT ROCK GEOTHERMAL ENERGY EXPERIMENT. 11-10

E DIVISION QUARTERLY STATUS REPORT, JUNE 1 - AUGUST 31, 1975. 13-4

STATUS OF LASER FUSION RESEARCH. 20-138

STATUS REPORT. LASER FUSION TARGET FABRICATION, 30 APRIL 1974. 20-139

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT. PROGRAM STATUS REPORT, JANUARY - APRIL 1975. 26-17

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT. PROGRAM STATUS REPORT, SEPTEMBER - DECEMBER 1974. 26-18

NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT PROGRAM STATUS REPORT, SEPTEMBER -DECEMBER 1972. 26-19

E DIVISION QUARTERLY STATUS REPORT, MARCH 1 - MAY 31, 1975. 30-19

MONTHLY STATUS REPORT OF LASL ROVER PROGRAM FOR PERIOD ENDING DECEMBER 20, 1962. 30-50

QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENDING JULY 31, 1967. 30-70

QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC R AND D PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1969. PART 2. 30-71

SPACE ELECTRIC POWER R AND D PROGRAM, QUARTERLY STATUS REPORT FOR THE PERIOD ENDING APRIL 30, 1969. 30-85

STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR FOUR MONTH PERIOD ENDING JULY 20, 1962. 30-86

STEADY
PROLONGED EARTHWARD FLOW OF MAGNETOTAIL PLASMA ASSOCIATED WITH STEADY SOUTHWARD IMF. 1-20

CAVITY STABILITY: FINITE ELEMENT ANALYSIS FOR STEADY AND TRANSIENT CREEP. 11-5

STEADY ABLATION OF LASER TARGETS IN SPHERICAL GEOMETRY. 1. THE MODEL. 20-140

STEADY ABLATION OF LASER TARGETS IN SPHERICAL GEOMETRY. 2. PHYSICAL RESULTS. 20-141

OPTION: A COMPUTER CODE TO SOLVE STEADY STATE FLUID THERMAL ENGINEERING PROBLEMS. 21-62

ANALYTIC TRANSPORT THEORY SOLUTIONS FOR STEADY SOURCES IN PURE ABSORBERS. 24-1

STEEL
STRUCTURALLY INTEGRATED STEEL SOLAR COLLECTOR DEVELOPMENT. 12-21

STELLAR
RADIAL STELLAR STABILITY AND PULSATION. 3-36

STEM
DNA CONSTANCY IN HETEROPLOIDY AND THE STEM LINE THEORY OF TUMORS. 5-56

STEPS
OBSERVATION OF STEPS IN THE MICROWAVE IMPEDANCE OF SUPERCONDUCTING MICROBRIDGES. 8-33

STIMULATED
PLASMA SIMULATION STUDIES OF STIMULATED SCATTERING PROCESSES IN LASER IRRADIATED PLASMAS. 20-118

STIMULATED DIFFUSION SCATTERING IN IONOSPHERIC MODIFICATION. 20-142

THEORY OF STIMULATED SCATTERING PROCESSES IN LASER IRRADIATED PLASMAS. 20-153

STOP
MEASUREMENT OF THE NEUTRON FLUX GENERATED BY THE LAMPF 800 MEV PROTON BEAM STOP. 22-28

CALCULATED NEUTRON SPECTRUM FROM 800 MEV PROTONS INCIDENT ON A COPPER BEAM STOP. 22-6

PRODUCTION OF FLUORINE -18 USING ENERGETIC NEUTRONS FROM LAMPF BEAM STOP. 25-179

STORAGE
10 KA, 300 KJ MAGNETIC ENERGY TRANSFER AND STORAGE (METS) TEST FACILITY. 8-1

DESIGN OF A FORCE FREE INDUCTIVE STORAGE COIL. 8-11

DEVELOPMENT OF A SUPERCONDUCTING SWITCH FOR MAGNETIC ENERGY STORAGE SYSTEMS. 8-12

ECONOMIC AND SYSTEM ASPECTS OF A SUPERCONDUCTING MAGNETIC ENERGY STORAGE DEVICE AND A DC SUPERCONDUCTING TRANSMISSION LINE. 8-14

100 MJ SUPERCONDUCTING MAGNETIC ENERGY STORAGE SYSTEM. 8-2

MAGNETIC ENERGY STORAGE FOR ELECTRIC UTILITY APPLICATIONS. 8-26

MAGNETIC ENERGY STORAGE FOR ELECTRIC UTILITY APPLICATIONS. 8-27

MAGNETIC ENERGY STORAGE FOR ELECTRIC UTILITY APPLICATIONS. 8-28

PROPOSED METS (MAGNETIC ENERGY TRANSFER AND STORAGE) - FTR (FUSION TEST REACTOR) COUPLED SUPERCONDUCTING PROTOTYPE SYSTEM. 8-40

SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, APRIL 1 THROUGH SEPTEMBER 30, 1974. 8-46

SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, JANUARY 1 - MARCH 31, 1975. 8-47

SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, OCTOBER 1 - DECEMBER 31, 1974. 8-48

SUPERCONDUCTING MAGNETIC ENERGY STORAGE. 8-49

SUPERCONDUCTIVITY, ENERGY STORAGE AND SWITCHING. 8-50

WILL SUPERCONDUCTING MAGNETIC ENERGY STORAGE BE USED ON ELECTRIC UTILITY SYSTEMS 8-62

ENERGY STORAGE, COMPRESSION, AND SWITCHING IN A THETA PINCH FUSION TEST REACTOR. 10-30

MAGNETIC ENERGY STORAGE SYSTEM USED IN ZT-1. 10-76

PANEL ON ENERGY STORAGE AND SOLAR ENERGY. 12-14

DESIGN CONSIDERATIONS OF AIR COOLED COLLECTOR/ROCK-BIN STORAGE SOLAR HEATING SYSTEMS. 12-4

ELECTROCHEMICAL HEAT ENGINES FOR DIRECT ELECTRIC POWER GENERATION AND ENERGY STORAGE. 12-8

SAFETY TEST ON THE STORAGE OF PLUTONIUM TETRAFLUORIDE. 17-54

ANALYSIS OF HOMOPOLAR GENERATORS AND SUPERCONDUCTING INDUCTIVE ENERGY STORAGE SYSTEMS AS POWER SUPPLIES FOR HIGH ENERGY, SPACE BASED LASERS. 20-7

BEAM EMITTANCE GROWTH IN A PROTON STORAGE RING EMPLOYING CHARGE EXCHANGE INJECTION. 22-4

CAPSULE STORAGE AND DENSITY - ANALOG TECHNIQUES. 24-4

CONTINUOUS INVENTORY IN SNM STORAGE FACILITIES. 26-4

CONTINUOUS INVENTORY IN SNM STORAGE FACILITIES. 26-5

RELEVANCE OF NUCLIDE MIGRATION AT OKLO TO THE PROBLEM OF GEOLOGIC STORAGE OF RADIOACTIVE WASTE. 30-78

STORM
L = 6.6 OOSIK BARIUM PLASMA INJECTION EXPERIMENT AND MAGNETIC STORM OF MARCH 7, 1972. 1-16

STORY
STORY OF THE LOS ALAMOS LABORATORY. 30-87

STRAIGHT
THERMAL CONDUCTION ALONG STRAIGHT THETA PINCHES AND PLASMA COLUMNS. 10-145

APPLICATION OF A DRIFT - FLUX MODEL TO FLASHING IN STRAIGHT PIPES. 18-2

STRAIN
INTRINSICALLY SAFE STRAIN GAGE MONITORING SYSTEM. 19-11

EFFECT OF STRAIN AGING ON THE DYNAMIC ELASTIC - PLASTIC PROPERTIES OF IRON. 23-13

EFFECT OF STRAIN RATE ON THE TENSILE PROPERTIES OF ALPHA AND DELTA STABILIZED PLUTONIUM. 23-14

FRACTURE BEHAVIOR OF IRIDIUM - 0.3 PERCENT TUNGSTEN AT HIGH STRAIN RATES. 23-23

LARGE STRAIN DEFORMATION OF POLYCRYSTALLINE METALS AT LOW HOMOLOGOUS TEMPERATURE. 23-32

ONE DIMENSIONAL ELASTIC - PLASTIC CALCULATIONS INVOLVING STRAIN HARDENING AND STRAIN RATE EFFECTS FOR ALUMINUM. 23-44

ONE DIMENSIONAL ELASTIC - PLASTIC CALCULATIONS INVOLVING STRAIN HARDENING AND STRAIN RATE EFFECTS FOR ALUMINUM. 23-45

STRANGENESS
PARITY VIOLATING ASYMMETRY IN NEUTRON PHOTO CAPTURE BY PROTONS AND THE ISOSPIN STRUCTURE OF THE STRANGENESS CONSERVING NONLEPTONIC WEAK INTERACTIONS. 25-155

IMPLICATIONS OF PARITY VIOLATING EFFECTS IN STRANGENESS CONSERVING NONLEPTONIC PROCESSES. 25-96

STRATOSPHERIC
STRATOSPHERIC HALOGEN MEASUREMENTS. 1-29

STREAK
PHOTOSYNTHETIC STUDIES WITH A 10 PSEC RESOLUTION STREAK CAMERA. 5-111

INVESTIGATION OF MICRO-CHANNEL PLATES AS PARALLEL BORE ELECTRON COLLIMATORS FOR USE IN A PROXIMITY FOCUSED ULTRA FAST STREAK TUBE. 19-12

PROXIMITY FOCUSED ULTRA-FAST STREAK TUBE. 20-121

STREAK CAMERA STUDIES USING PICOSECOND PULSES OF PHOTOSYNTHESIS AND PLASTIC SCINTILLATORS. 20-143

ULTRAFAST STREAK CAMERA. 20-160

STREAM
SOLAR WIND STREAM EVOLUTION AT LARGE HELIOCENTRIC DISTANCES: EXPERIMENTAL DEMONSTRATION AND THE TEST OF A MODEL. 1-26

SIMULATION OF THE TWO STREAM INSTABILITY WITH FOUR NUMERICAL MODELS. 18-45

COLLECTIVE ION ACCELERATION VIA THE TWO STREAM INSTABILITY. 20-18

ION ACCELERATION BY THE RELATIVISTIC TWO STREAM INSTABILITY. 20-59

STREAMING
EFFECTS OF NEUTRON STREAMING AND GEOMETRIC MODELS ON MOLTEN FUEL RECRITICALITY ACCIDENTS. 24-10

EFFECTS OF NEUTRON STREAMING AND GEOMETRIC MODELS ON MOLTEN FUEL RECRITICALITY ACCIDENTS. 24-11

STREAMS
EVIDENCE FOR LOCAL ION HEATING IN SOLAR WIND HIGH SPEED STREAMS. 1-8

STRENGTH
ACOUSTIC MEASURING SYSTEM FOR DETERMINING THE BREAKING STRENGTH OF MICROBALLOONS. 20-2

YIELD STRENGTH OF FINE GRAINED VANADIUM PRODUCED BY HIGH RATE PHYSICAL VAPOR DEPOSITION. 23-64

STRENGTHENING
ELEVATED TEMPERATURE STRENGTHENING OF MELT GROWN SAPPHIRE BY ALLOYING. 23-19

STRENGTHENING OF LIQUID SINTERED TUNGSTEN ALLOYS. 23-56

STRENGTHS
OSCILLATOR STRENGTHS FROM LINE ABSORPTION IN A HIGH TEMPERATURE FURNACE. 2. THE (0,0) BAND OF THE B(2)SIGMA(+) -X(2)SIGMA (+) TRANSITION IN CYANOGEN. 4-48

BOND LENGTHS AND BOND STRENGTHS IN COMPOUNDS OF THE 5F ELEMENTS. 9-4

STREPTOZOTOCIN
DIFFERENTIAL EFFECTS OF TWO CHEMOTHERAPEUTIC AGENTS, STREPTOZOTOCIN AND CHLOROZOTOCIN, ON THE MAMMALIAN CELL CYCLE. 5-54

STRESS
STRESS ANALYSIS AND STATIC TESTING OF KIWI GRAPHITE REFLECTOR CYLINDER STRUCTURES. 30-88

STRESSES
CRITICAL BOREHOLE PRESSURE FOR A VERTICAL HYDRAULIC CRACK IN THE PRESENCE OF TWO PRINCIPAL TOTAL STRESSES. 11-9

STRIKE
SINUOSITY OF STRIKE - SLIP FAULT TRACES. 11-52

STRONG
THEORETICAL AND EXPERIMENTAL STUDIES OF STRONG SHOCK WAVES IN AIR. 18-48

VACUUM POLARIZATION IN STRONG, REALISTIC ELECTRIC FIELDS. 25-228

STRONGLY
FLUTE INSTABILITIES IN TWO DIMENSIONAL SIMULATIONS OF STRONGLY INHOMOGENEOUS THETA PINCH PLASMAS. 10-40

INDICATIONS OF STRONGLY FLUX LIMITED ELECTRON THERMAL CONDUCTION IN LASER TARGET EXPERIMENTS. 20-55

STRONTIUM
STRONTIUM -82 - RUBIDIUM -82 ISOTOPE GENERATOR FOR USE IN NUCLEAR MEDICINE. 5-138

ISOLATION OF STRONTIUM -82 FROM 200-600 MEV PROTON IRRADIATED MOLYBDENUM TARGETS FOR BIOMEDICAL APPLICATIONS. 5-85

MEDICAL RADIOISOTOPES FROM LAMPF: STRONTIUM -82 - RUBIDIUM -82 PRODUCTION, RECOVERY, AND BIOMEDICAL GENERATOR. 5-98

ADDITIONAL NOTE ON THE ISOTOPIC COMPOSITION OF STRONTIUM IN MCCARTYS FLOW, VALENCIA COUNTY, NEW MEXICO. 11-1

PROTON PICKUP FROM STRONTIUM -86 AND THE RUBIDIUM -85 LEVEL STRUCTURE. 25-185

STRUCTURAL
STRUCTURAL ENDURANCE CONSTRAINTS FOR HIGH FIELD THETA PINCH COILS. COILS. 10-140

LIMITING PERFORMANCE OF STRUCTURAL SYSTEMS. 13-9

HOLOGRAPHY APPLIED TO STRUCTURAL COMPONENTS. 19-8

STRUCTURAL PROPERTIES OF THE CANONICAL U(3) RACAH FUNCTIONS AND THE U(3):U(2) PROJECTIVE FUNCTIONS. 21-76

LATTICE DYNAMICS AND STRUCTURAL PROPERTIES OF SOLID NITROGEN. 29-4

STRUCTURALLY
STRUCTURALLY INTEGRATED STEEL SOLAR COLLECTOR DEVELOPMENT. 12-21

STRUCTURE
OBSERVED CORONAL TEMPERATURES AT 1.37 SOLAR RADII IN THE REGION OF A HELMET STRUCTURE. 3-32

STUDY OF FAST TIME STRUCTURE WITHIN COSMIC GAMMA RAY BURSTS. 3-42

ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF DICHLORODIOXOMANGANESE(VI). 4-18

ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF MANGANESE(V) OXYTRICHLORIDE. 4-19

ELECTRONIC STRUCTURE OF ALPHA PRIME CERIUM. 4-20

EXPERIMENTAL AND CALCULATED ELECTRONIC STRUCTURE OF GASEOUS CHROMIUM OXYFLUORIDE AND CHROMIUM OXYCHLORIDE. 4-23

OCTAHEDRAL FINE STRUCTURE SPLITTINGS IN NU(3) OF SULFUR HEXAFLUORIDE. 4-44

PROPOSAL REGARDING THE ELECTRONIC STRUCTURE OF ALPHA - CERIUM. 4-51

SELF CONSISTENT FIELD CALCULATION OF THE ELECTRONIC STRUCTURE OF THE URANYL ION. 4-59

CALCULATED AND EXPERIMENTAL ELECTRONIC STRUCTURE OF GASEOUS MANGANESE OXYFLUORIDE AND MANGANESE OXYCHLORIDE. 4-7

TEMPORAL STRUCTURE OF S PHASE. 5-140

EMF'S ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM: BARE ELECTRODE EFFECTS, USE OF N UNEQUAL TO 2, PREMONITORY PHENOMENA AND LIQUID STRUCTURE IN GOLD -CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS. 7-5

PENTAERYTHRITOL TETRANITRATE II: ITS CRYSTAL STRUCTURE AND TRANSFORMATION TO PETN I: AN ALGORITHM FOR REFINEMENT OF CRYSTAL STRUCTURES WITH POOR DATA. 9-17

REFINEMENT OF THE CRYSTAL STRUCTURE OF CUPROSKLODOWSKITE. 9-20

REFINEMENT OF THE CRYSTAL STRUCTURE OF MELAMINE, 2,4,6- TRIAMINO -S- TRIAZINE, USING GENERALIZED SCATTERING FACTORS AT THE OCTUPOLE LEVEL. 9-21

STRUCTURE OF PLUTONIUM - PALLADIUM. 9-23

STRUCTURE OF PLUTONIUM(5) - PLATINUM(3). 9-24

STRUCTURE OF PLUTONIUM(5) - RUTHENIUM(3). 9-25

STRUCTURE OF TRIS(CYCLOPENTADIENYL) FLUOROURANIUM(IV). 9-26

SYNTHESIS, CHARACTERIZATION AND STRUCTURE OF URANIUM OXIDE TETRAFLUORIDE. 9-27

CRYSTAL AND MOLECULAR STRUCTURE OF CHLOROBIS (3-BUTENYLDIPHENYLPHOSPHINO) RHODIUM(I). 9-6

CRYSTAL STRUCTURE OF PRASEODYMIUM(7) OXYGEN(12) BY POWDER NEUTRON DIFFRACTION. 9-8

RADIAL PLASMA STRUCTURE DURING A THETA PINCH IMPLOSION: FLUTE INSTABILITIES. 10-110

TOROIDAL MODE STRUCTURE IN THE SCYLLAC FULL TORUS. 10-150

STRUCTURE AND HINDERED MOTION OF BORON (3) HYDROGEN(8) ANIONS IN SOLIDS: AN NMR (NUCLEAR MAGNETIC RESONANCE) STUDY. 14-12

STRUCTURE AND MOTION OF B3H8- ANIONS IN SOLIDS: A BORON AND PROTON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY. 14-13

THREE DIMENSIONAL COMPUTER ANALYSIS OF SHOCK LOADS ON A SIMPLE STRUCTURE. 18-49

STRUCTURE AND SCALING LAWS OF LASER DRIVEN ABLATIVE IMPLOSIONS. 20-144

LASER INITIATED KRYTRON SWITCHED BLUMLEIN STRUCTURE FOR PULSE SELECTION. 20-77

CONTROLLED POROSITY FILTER AND UNIFORM STRUCTURE COMPOSITES. 23-8

NEW HIGH PRECISION MEASUREMENT OF THE MUONIUM HYPERFINE STRUCTURE INTERVAL DELTA NU. 25-137

NUCLEAR STRUCTURE STUDIES IN HEAVY DEFORMED NUCLEI USING MUONIC ATOMS. 25-147

PARAMETERS OF THE SUBTHRESHOLD FISSION STRUCTURE IN PLUTONIUM -240. 25-151

PARAMETERS OF THE SUBTHRESHOLD FISSION STRUCTURE IN PLUTONIUM -240. 25-152

PARITY VIOLATING ASYMMETRY IN NEUTRON PHOTO CAPTURE BY PROTONS AND THE ISOSPIN STRUCTURE OF THE STRANGENESS CONSERVING NONLEPTONIC WEAK INTERACTIONS. 25-155

PRECISION MEASUREMENT OF 1S(1/2) MUONIUM HYPERFINE STRUCTURE INTERVAL DELTA NU. 2. RESULTS. 25-178

PROTON PICKUP FROM STRONTIUM -86 AND THE RUBIDIUM -85 LEVEL STRUCTURE. 25-185

HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE. 1975. 6TH INTERNATIONAL CONFERENCE, SANTA FE AND LOS ALAMOS, NM. ABSTRACTS OF CONTRIBUTED PAPERS. 25-94

STRUCTURED
PERFORMANCE OF STRUCTURED LASER FUSION PELLETS. 20-116

CALCULATED PERFORMANCE OF STRUCTURED LASER FUSION PELLETS. 20-12

STRUCTURED FUSION TARGET DESIGNS. 20-145

STRUCTURES
NEUTRON DIFFRACTION STUDIES OF DEUTERIUM - SOLID STRUCTURES AND TRANSITIONS. 9-14

PENTAERYTHRITOL TETRANITRATE II: ITS CRYSTAL STRUCTURE AND TRANSFORMATION TO PETN I: AN ALGORITHM FOR REFINEMENT OF CRYSTAL STRUCTURES WITH POOR DATA. 9-17

PROGRESS REPORT. RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES FOR THE PERIOD JULY 1 TO SEPTEMBER 30, 1974. 12-16

RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES. 12-17

CLIMATICALLY ADAPTED STRUCTURES. 12-2

PERFORMANCE TESTS OF GRAVITY ASSIST HEAT PIPES WITH SCREEN WICK STRUCTURES. 13-12

WIND FLOW OVER SIMULATED STRUCTURES FOR MARTIAN AND TERRESTRIAL ATMOSPHERES. 18-55

SELF FOCUSING PHENOMENA IN AIR - GLASS LASER STRUCTURES. 20-136

BOND GRAPH JUNCTION STRUCTURES. 21-12

STRESS ANALYSIS AND STATIC TESTING OF KIWI GRAPHITE REFLECTOR CYLINDER STRUCTURES. 30-88

STUDIES
CONFIGURATION INTERACTION STUDIES OF OZONE AND OZONE POSITIVE ION. GROUND AND EXCITED STATES. 4-12

PHOTOSYNTHETIC STUDIES WITH A 10 PSEC RESOLUTION STREAK CAMERA. 5-111

CARBON -13 FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE STUDIES OF FRACTIONATED CANDIDA UTILIS MEMBRANES. 5-17

DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, APRIL 1 - JUNE 30, 1975. 5-50

DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, SEPTEMBER 1, 1974 - MARCH 1, 1975. 5-51

NEUTRON DIFFRACTION STUDIES OF DEUTERIUM - SOLID STRUCTURES AND TRANSITIONS. 9-14

COHERENT INELASTIC ELECTRON SCATTERING IN LEED (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF ARSENIC(0001). 9-5

HYBRID MODEL STUDIES OF MAGNETIC FIELD DIFFUSION IN HIGH BETA PINCHES. 10-52

IMPLOSION HEATING STUDIES IN THE SCYLLA 1B, IMPLOSION HEATING, AND STAGED THETA PINCH EXPERIMENTS. 10-56

NUMERICAL STUDIES OF THE LINEAR THETA PINCH. 10-90

PARTIAL CHRONOLOGY OF Z PINCH STUDIES AT LOS ALAMOS SCIENTIFIC LABORATORY, 1952-1975. 10-97

LABORATORY AND NUMERICAL STUDIES OF WATER - GRANITE INTERACTIONS AT ELEVATED TEMPERATURE AND PRESSURE. 11-25

NUMERICAL STUDIES OF THE THERMAL EVOLUTION OF INTRUSIONS IN RELATIONSHIP TO OBSERVED TEMPERATURES IN GT-2. 11-34

SEISMICITY STUDIES IN NORTHERN NEW MEXICO. 11-51

GAS HANDLING SYSTEM FOR STUDIES OF TRITIUM CONTAINING MATERIALS. 13-6

CARBON -13 NUCLEAR MAGNETIC RESONANCE STUDIES OF ADENOSYLCOBALAMIN AND ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13. 14-4

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES OCTOBER 1 - DECEMBER 31, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-20

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, APRIL 1 - JUNE 30, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-21

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JANUARY 1 - MARCH 31, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-22

PROGRESS REPORT. ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JULY 1 THROUGH SEPTEMBER 30, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-45

PROGRESS REPORT. RESPIRATOR STUDIES FOR THE AEC DIRECTORATE OF REGULATORY STANDARDS, JANUARY 1 THROUGH JUNE 30, 1974. 17-46

STUDIES OF PLUTONIUM, AMERICIUM, AND URANIUM IN ENVIRONMENTAL MATRICES. 17-58

THEORETICAL AND EXPERIMENTAL STUDIES OF STRONG SHOCK WAVES IN AIR. 18-48

COMPUTER STUDIES ON FLUID SYSTEMS OF HARD CORE PARTICLES. 18-5

NUMERICAL STUDIES OF THE INTERPLAY BETWEEN SELF PHASE MODULATION AND DISPERSION FOR INTENSE PLANE WAVE LASER PULSES. 20-101

PLASMA SIMULATION STUDIES OF STIMULATED SCATTERING PROCESSES IN LASER IRRADIATED PLASMAS. 20-118

STREAK CAMERA STUDIES USING PICOSECOND PULSES OF PHOTOSYNTHESIS AND PLASTIC SCINTILLATORS. 20-143

SYMMETRY AND STABILITY STUDIES OF THERMALLY GENERATED MAGNETIC FIELDS IN LASER PRODUCED PLASMAS. 20-147

THIN FILM DETECTOR SYSTEM FOR LASER -FUSION STUDIES. 20-154

DEVELOPMENT OF AN ALPHA PARTICLE AND PROTON DETECTOR FOR LASER - FUSION STUDIES. 20-23

STUDIES OF NONLINEAR PROBLEMS. 1. 21-77

MONTE CARLO STUDIES OF TARGET/MODERATOR CONFIGURATIONS FOR THE WEAPONS NEUTRON RESEARCH FACILITY. 25-121

NUCLEAR STRUCTURE STUDIES IN HEAVY DEFORMED NUCLEI USING MUONIC ATOMS. 25-147

RADIOCHEMICAL STUDIES OF SOME LOW AND MEDIUM ENERGY NUCLEAR REACTIONS PRODUCED BY ACCELERATED TRITONS, DEUTERONS, AND PROTONS. 25-194

ACTIVATION STUDIES OF PION INDUCED REACTIONS ON CARBON, NITROGEN, OXYGEN, FLUORINE, ALUMINUM AND COPPER. 25-8

DESIGN STUDIES OF HEAVY ION LINEAR ACCELERATORS CONSTRUCTED OF INDEPENDENTLY PHASED SPIRAL RESONATORS. 27-3

CRITICAL ASSEMBLY MOCKUP STUDIES OF THE PHOEBUS-2 ROVER REACTOR. 30-15

LAUNDRY DECONTAMINATION STUDIES AT LOS ALAMOS. 30-40

PACER PROGRAM. PHASE 1. THEORETICAL AND LABORATORY STUDIES. 30-58

SOME ROVER NEUTRONICS STUDIES. 30-83

SOME U. S. STUDIES OF THE OKLO PHENOMENON. 30-84

TRANSURANIC SOLID WASTE STUDIES AT LOS ALAMOS. 30-92

STUDYING
PROBLEMS AND POTENTIALITIES OF STABLE ISOTOPES AS TRACERS FOR STUDYING POLLUTANT BEHAVIOR UNDER FIELD CONDITIONS. 7-13

SYSTEM FOR STUDYING THE INITIAL STAGES OF GAS - METAL REACTIONS. 7-22

CONTACT ELECTRICAL METHOD OF STUDYING IMPLOSION. 15-2

NUMERICAL METHOD FOR STUDYING THE CIRCULATION PATTERNS OF A FLUID IN A CAVITY. 18-30

SU
GAUGE THEORY AT FINITE TEMPERATURE OF SU(3) SYMMETRY BREAKING AND QUARK MASSES. 25-87

DIRECT USE OF YOUNG TABLEAU ALGEBRA TO GENERATE THE CLEBSCH-GORDAN COEFFICIENTS OF SU(2)*. 27-4

SUBFRACTIONS
SEQUENTIAL PHOSPHORYLATION OF HISTONE SUBFRACTIONS IN THE CHINESE HAMSTER CELL CYCLE. 5-131

SUBLINE
COMPLEX CARBOHYDRATES OF A DETACHMENT VARIANT SUBLINE OF CHO CELLS. 5-44

SUBMUNITIONS
FEASIBILITY OF USING AMATEX IN AIR FORCE SUBMUNITIONS, FEBRUARY 15 - NOVEMBER 30, 1974. 15-11

HIGH DENSITY METALS AND METALLIC COMPOSITES FOR IMPROVED FRAGMENTATION SUBMUNITIONS. 23-27

SUBRIBOSOMAL
COMPOSITIONAL AND FUNCTIONAL RELATIONSHIP OF SUBRIBOSOMAL PARTICLES TO RIBOSOMES AND POLYSOMES. 5-45

SUBSTITUTE
LIMITED EVALUATION OF THE CORROSION OF URANIUM AND WEAPON ASSOCIATED METALS IN SUBSTITUTE OCEAN WATER. 23-33

SUBSTITUTION
FOURIER TRANSFORM CARBON -13 MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 2. LIGAND SUBSTITUTION PROCESSES. 7-7

SUBSTORM
INVESTIGATION OF SUBSTORM RELATED PLASMA SHEET THINNING WITH IMP-8. 1-15

SUBTERRENE
REVIEW OF GEOTHERMAL WELL TECHNOLOGY AND THE POTENTIAL APPLICATIONS OF SUBTERRENE ROCK MELTING DEVICES. 11-46

UNIQUE REFRACTORY TECHNIQUES FOR FABRICATING SUBTERRENE PENETRATORS. 11-60

CHEMICAL CORROSION OF MOLYBDENUM AND TUNGSTEN IN LIQUID BASALT, TUFF, AND GRANITE WITH APPLICATION TO SUBTERRENE PENETRATORS. 11-7

SUBTERRENES
CHARACTERIZATION OF ROCK MELTS AND GLASSES FORMED BY EARTH MELTING SUBTERRENES. 11-6

SUBTHRESHOLD
PARAMETERS OF THE SUBTHRESHOLD FISSION STRUCTURE IN PLUTONIUM -240. 25-151

PARAMETERS OF THE SUBTHRESHOLD FISSION STRUCTURE IN PLUTONIUM -240. 25-152

SUBTHRESHOLD FISSION IN PLUTONIUM -240 + N. 25-212

SUCCESSIVE
RELATIVISTIC ROTATION OF AXES UNDER SUCCESSIVE LORENTZ TRANSFORMATIONS. 27-15

SUCROSE
PROCEDURE FOR THE RAPID LYSIS OF MAMMALIAN CELLS PRIOR TO ALKALINE SUCROSE DENSITY GRADIENT CENTRIFUGATION 5-119

SUDDEN
RESPONSE OF THE PLASMA SHEET AT APPROXIMATELY 18 EARTH RADII TO SUDDEN SOUTHWARD TURNINGS OF THE INTERPLANETARY MAGNETIC FIELD. 1-23

SUGGESTED
SUGGESTED OBSERVATIONS OF SUPERNOVA REMNANTS IN THE LARGE MAGELLANIC CLOUD. 3-43

SUITS
SPECIFICATIONS AND TEST PROCEDURES FOR AIRLINE TYPE SUPPLIED AIR SUITS. 17-56

SULFIDE
LASER INDUCED CHEMILUMINESCENCE OF BORON TRICHLORIDE/HYDROGEN SULFIDE MIXTURES. 20-75

SULFOXIDE
DI-MU-(PYRIDINE OXIDE)- BIS(DICHLORO (DIMETHYL SULFOXIDE)COPPER(II)). 7-4

SULFOXYLATE
COPRECIPITATION OF URANIUM AND PLUTONIUM OXALATES USING SODIUM FORMALDEHYDE SULFOXYLATE REDUCTION AND DIETHYL OXALATE HYDROLYSIS PRECIPITATION. 2-7

SULFUR
DETERMINATION OF COMBINED SULFUR IN NUCLEAR REACTOR FUEL MATERIALS. 2-8

OCTAHEDRAL FINE STRUCTURE SPLITTINGS IN NU(3) OF SULFUR HEXAFLUORIDE. 4-44

REVERSIBLE SULFUR DIOXIDE ADDITION TO COPPER(I) PHOSPHINE COMPLEXES. 7-17

INTERACTIONS OF SULFUR CONTAINING SMALL MOLECULES WITH ORGANOPHOSPHINE COPPER(I) COMPLEXES. 9-13

TEMPERATURE DEPENDENT ABSORPTION SPECTRUM OF THE NU(3) BAND OF SULFUR HEXAFLUORIDE AT 10.6 MICRONS. 20-150

TIME RESOLVED OUTPUT SPECTRUM FROM A HYDROGEN FLUORIDE LASER USING MIXTURES OF SULFUR HEXAFLUORIDE AND HYDROGEN IODIDE. 20-156

ISOTOPIC ENRICHMENT OF SULFUR HEXAFLUORIDE IN SULFUR -34 BY MULTIPLE ABSORPTION OF CARBON DIOXIDE LASER RADIATION. 20-64

KILOVOLT SULFUR -33 (NEUTRON,ALPHA-0) AND SULFUR -33 (NEUTRON,GAMMA) CROSS SECTIONS: IMPORTANCE IN THE NUCLEOSYNTHESIS OF THE RARE NUCLEUS SULFUR -36. 25-101

SUMMARY
CELL CYCLE ANALYSIS: SESSION SUMMARY. 5-22

INTEGRATED SOLAR ENERGY COLLECTOR FINAL SUMMARY REPORT. 12-11

ENDF/B-IV FISSION PRODUCT FILES: SUMMARY OF MAJOR NUCLIDE DATA. 25-63

RADIOCHEMICAL MEASUREMENTS ON KIWI-A PRIME. SUMMARY REPORT. 30-73

SUPERCONDUCTING
DESIGN AND PERFORMANCE OF TWO 10 KA SUPERCONDUCTING SWITCHES. 8-10

DEVELOPMENT OF A SUPERCONDUCTING SWITCH FOR MAGNETIC ENERGY STORAGE SYSTEMS. 8-12

ECONOMIC AND SYSTEM ASPECTS OF A SUPERCONDUCTING MAGNETIC ENERGY STORAGE DEVICE AND A DC SUPERCONDUCTING TRANSMISSION LINE. 8-14

EVALUATION OF PRE-IMPREGNATED RESIN -GLASS SYSTEMS FOR INSULATING SUPERCONDUCTING MAGNETS. 8-16

100 MJ SUPERCONDUCTING MAGNETIC ENERGY STORAGE SYSTEM. 8-2

INVESTIGATIONS ON POTENTIAL CONDUCTORS FOR A DC SUPERCONDUCTING POWER TRANSMISSION LINE IN A 20 METER TEST BED. 8-21

OBSERVATION OF STEPS IN THE MICROWAVE IMPEDANCE OF SUPERCONDUCTING MICROBRIDGES. 8-33

PHONON THERMAL CONDUCTIVITY OF SUPERCONDUCTING LEAD - THALLIUM ALLOYS. 8-35

PROGRESS REPORT. USERDA-DAT DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JULY 1 THROUGH SEPTEMBER 30, 1974. 8-38

PROPOSED METS (MAGNETIC ENERGY TRANSFER AND STORAGE) - FTR (FUSION TEST REACTOR) COUPLED SUPERCONDUCTING PROTOTYPE SYSTEM. 8-40

SUPERCONDUCTING ELECTRIC POWER TRANSMISSION. 8-44

SUPERCONDUCTING MAGNETIC AND INERTIAL ENERGY PULSED POWER SYSTEMS. 8-45

SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, APRIL 1 THROUGH SEPTEMBER 30, 1974. 8-46

SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, JANUARY 1 - MARCH 31, 1975. 8-47

SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, OCTOBER 1 - DECEMBER 31, 1974. 8-48

SUPERCONDUCTING MAGNETIC ENERGY STORAGE. 8-49

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. APRIL 1 - JUNE 30, 1975. 8-58

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JANUARY 1 - MARCH 31, 1975. 8-59

USERDA DIVISION OF ELECTRIC POWER TRANSMISSION AND DISTRIBUTION DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1974. 8-60

WILL SUPERCONDUCTING MAGNETIC ENERGY STORAGE BE USED ON ELECTRIC UTILITY SYSTEMS 8-62

ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 2. SUPERCONDUCTING TRANSITION TEMPERATURE. 9-2

ANALYSIS OF HOMOPOLAR GENERATORS AND SUPERCONDUCTING INDUCTIVE ENERGY STORAGE SYSTEMS AS POWER SUPPLIES FOR HIGH ENERGY, SPACE BASED LASERS. 20-7

SUPERCONDUCTIVITY
DIRECTIONAL EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT. 8-13

INVESTIGATION OF THE SOURCES OF ASYMMETRY EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT IN TYPE II TANTALUM WIRES. 8-20

OBSERVATION OF ASYMMETRY EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT IN TYPE II TANTALUM WIRES. 8-32

APPLICATIONS OF SUPERCONDUCTIVITY TO ELECTRIC POWER SYSTEMS. 8-5

SUPERCONDUCTIVITY, ENERGY STORAGE AND SWITCHING. 8-50

BULK SUPERCONDUCTIVITY ABOVE 20 DEGREES KELVIN IN NIOBIUM(3)GERMANIUM. 8-6

SUPERCONDUCTORS
LIMITING FLUX PASSAGE TIME IN NARROW SUPERCONDUCTORS. 8-25

MAGNETIC FIELD MICROPROBE IN SUPERCONDUCTORS CARRYING A CURRENT. 8-29

PREPARATION OF HIGH T(C) NIOBIUM(3) GERMANIUM SUPERCONDUCTORS BY CHEMICAL VAPOR DEPOSITION. 8-37

STABILIZING SUPERCONDUCTORS FOR POWER ENGINEERING APPLICATIONS. 8-43

SUPERFICIAL
CHARACTERISTICS OF A NEGATIVE PION BEAM FOR THE IRRADIATION OF SUPERFICIAL NODULES. 5-37

SUPERFLUID
EXPLANATION OF AN OBSERVED DIRECTION DEPENDENT SUPERFLUID FLOW. 8-17

SUPERFLUID FLOW THROUGH MULTIPLY CONNECTED GEOMETRIES. 8-51

SUPERHEAVY
HYDRATION ENERGIES AND SPECIFIC INFLUENCE OF OXO COMPLEXES AND HIGH COORDINATION NUMBERS ON THE PREDICTED CHEMISTRY OF SUPERHEAVY ELEMENTS. 7-9

MECHANISM OF HEAVY ION REACTIONS AND THE PRODUCTION OF SUPERHEAVY NUCLEI. 25-116

SUPERMULTIPLET
TEST OF THE GENERALIZED PAULI PRINCIPLE AND OF SUPERMULTIPLET SYMMETRY IN THE REACTIONS TRITON + BERYLLIUM -8 TO LITHIUM -6 + HELIUM -6, LITHIUM -6(*0+) + HELIUM -6. 25-217

SUPERNOVA
DISTRIBUTION OF SUPERNOVA REMNANTS IN THE GALAXY. EVIDENCE FOR A TUNNEL SYSTEM. 3-13

SUGGESTED OBSERVATIONS OF SUPERNOVA REMNANTS IN THE LARGE MAGELLANIC CLOUD. 3-43

SUPERNOVA REMNANT W44: A GALACTIC GRAVIMETER. 3-44

W44: A BUOYANT SUPERNOVA REMNANT 3-46

CALCULATION OF SNR (SUPERNOVA REMNANT) INTERACTION. 3-6

SUPERSONIC
SUPERSONIC FLOW RESULTING FROM THE INTERACTION OF A HIGH FREQUENCY CAPACITOR OR ELECTROMAGNETIC FIELD WITH AN EXPANDING PLASMA. 10-141

DEUTERIUM FLOW LOOP FOR A SUPERSONIC GAS TARGET INTENSE NEUTRON SOURCE. 10-20

SUPPLIED
SPECIFICATIONS AND TEST PROCEDURES FOR AIRLINE TYPE SUPPLIED AIR SUITS. 17-56

SUPPLIES
ANALYSIS OF HOMOPOLAR GENERATORS AND SUPERCONDUCTING INDUCTIVE ENERGY STORAGE SYSTEMS AS POWER SUPPLIES FOR HIGH ENERGY, SPACE BASED LASERS. 20-7

SUPPLY
WATER SUPPLY AT LOS ALAMOS DURING 1974. 11-63

SUPPORT
PROPERTIES OF BONE AT LOW TEMPERATURE AND ITS POTENTIAL AS CRYOSTAT SUPPORT MATERIAL. 8-39

SUPPORTED
PROPRIETARY, STANDARD, AND GOVERNMENT SUPPORTED NUCLEAR DATA BASES. 25-180

SURFACE
REGULATION OF ADENYLATE CYCLASE ACTIVITY BY CELL SURFACE HYALURONATE IN HUMAN LIME MESENCHYMAL CELLS IN VITRO. 5-126

CELL CYCLE DEPENDENT SURFACE CHANGES IN CHINESE HAMSTER CELLS GROWN IN SUSPENSION CULTURE. 5-26

CHAIRMAN'S CLOSING REMARKS, SESSION V: THE CELL SURFACE. 5-35

CHAIRMAN'S REMARKS, SESSION V: THE CELL SURFACE. 5-36

RADON -222 FROM THE OCEAN SURFACE. 11-44

SURFACE WAVE ABSORPTION. 20-146

DIRECT EVALUATION OF TRANSIENT SURFACE TEMPERATURES AND HEAT FLUXES. 20-25

MONTE CARLO SPLITTING SURFACE IDENTIFICATION BY PATTERN RECOGNITION. 21-50

INTERACTION BETWEEN CESIUM AND GRAPHITE FOR USE IN THE STUDY OF SURFACE PHENOMENA. 23-31

INELASTIC PROTON SCATTERING AS A TEST OF SURFACE DELTA WAVE FUNCTIONS. 25-98

LIFETIME, SURFACE TENSION, AND IMPURITY EFFECTS IN ELECTRON HOLE CONDENSATION. 27-10

LIFETIME, SURFACE TENSION, AND IMPURITY EFFECTS IN ELECTRON HOLE CONDENSATION. 27-9

SURFACES
MODEL FOR PREDICTING THE REDISTRIBUTION OF PARTICULATE CONTAMINANTS FROM SOIL SURFACES. 11-30

INVESTIGATION OF PATTERN RECOGNITION TECHNIQUES FOR THE IDENTIFICATION OF SPLITTING SURFACES IN MONTE CARLO PARTICLE TRANSPORT CALCULATIONS. 21-44

SURFACTANTS
REDUCTION IN SURFACTANTS BY IRRADIATION. 30-77

SURVEILLANCE
ELEMENTS OF QUALITY ASSURANCE IN ENVIRONMENTAL SURVEILLANCE. 17-17

ENVIRONMENTAL SURVEILLANCE AT LOS ALAMOS DURING 1974. 17-25

SURVEY
DEVELOPMENTS IN SEARCH AND SURVEY INSTRUMENTATION. 19-5

SURVEY OF THE STATE OF THE ART OF FAST SINGLE TRANSIENT ANALOG TO DIGITAL CONVERTER TECHNIQUES. 21-78

SURVEY OF PION CHARGE EXCHANGE REACTIONS WITH NUCLEI. 25-213

EFFECTS OF RADIATION ON LUBRICANTS AND OTHER MATERIALS. A SURVEY OF CLASSIFIED LITERATURE, 1950-55. 30-22

SURVEYED
DISTRIBUTION OF PLASMA SHEET THINNING AND RECOVERY EVENTS IN THE MAGNETOTAIL SURVEYED BY THE IMP-6 SATELLITE. 1-3

SURVIVAL
SURVIVAL OF CULTURED MAMMALIAN CELLS IRRADIATED AT VARIOUS DEPTHS IN THE LAMPF NEGATIVE PION THERAPY BEAM. 5-139

CELL SURVIVAL AS A FUNCTION OF DEPTH FOR NEGATIVE PIONS AND HEAVY IONS. 5-30

SURVIVE
MAYBE THE QUARK-PARTON MODEL CAN SURVIVE ELECTRON POSITRON ANNIHILATION. 25-110

SUSPENSION
CELL CYCLE DEPENDENT SURFACE CHANGES IN CHINESE HAMSTER CELLS GROWN IN SUSPENSION CULTURE. 5-26

SV40
QUANTITATIVE MEASUREMENT OF SV40 T -ANTIGEN PRODUCTION. 5-120

SW
NON-LINEAR RADIATIVE TRANSFER MODEL OF SW ANDROMADAE. 3-29

SWINE
EVALUATION OF SOLUBLE ANTIGEN FLUORESCENT ANTIBODY TEST FOR ANTIBODIES TO TRICHINELLA SPIRALIS IN EXPERIMENTALLY INFECTED SWINE. 5-61

SWITCH
DEVELOPMENT OF A SUPERCONDUCTING SWITCH FOR MAGNETIC ENERGY STORAGE SYSTEMS. 8-12

SWITCHED
LASER INITIATED KRYTRON SWITCHED BLUMLEIN STRUCTURE FOR PULSE SELECTION. 20-77

SWITCHES
DESIGN AND PERFORMANCE OF TWO 10 KA SUPERCONDUCTING SWITCHES. 8-10

SWITCHING
SUPERCONDUCTIVITY, ENERGY STORAGE AND SWITCHING. 8-50

ENERGY STORAGE, COMPRESSION, AND SWITCHING IN A THETA PINCH FUSION TEST REACTOR. 10-30

SYMBOLIC
SYMBOLIC COMPUTATION IN CONTROLLED THERMONUCLEAR RESEARCH. 10-142

SYMMETRY
SYMMETRY AND STABILITY STUDIES OF THERMALLY GENERATED MAGNETIC FIELDS IN LASER PRODUCED PLASMAS. 20-147

TEST OF THE GENERALIZED PAULI PRINCIPLE AND OF SUPERMULTIPLET SYMMETRY IN THE REACTIONS TRITON + BERYLLIUM -8 TO LITHIUM -6 + HELIUM -6, LITHIUM -6(*0+) + HELIUM -6. 25-217

CHIRAL SYMMETRY AND PION CONDENSATION. 1. MODEL DEPENDENT RESULTS. 25-29

CHIRAL SYMMETRY AND PION CONDENSATION. 2. GENERAL FORMALISM. 25-30

GAUGE THEORY AT FINITE TEMPERATURE OF SU(3) SYMMETRY BREAKING AND QUARK MASSES. 25-87

SYMPOSIUM
PLUTONIUM: HEALTH IMPLICATIONS FOR MAN. 1974. 2ND LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROCEEDINGS. 5-115

MAMMALIAN CELLS: PROBES AND PROBLEMS. 1973. 1ST LIFE SCIENCES SYMPOSIUM, LOS ALAMOS, NM. PROCEEDINGS. 5-95

AEROSPACE INSTRUMENTATION. 1973. 19TH INTERNATIONAL SYMPOSIUM, LAS VEGAS, NV. PROCEEDINGS, INSTRUMENTATION IN THE AEROSPACE INDUSTRY, V.19. 19-1

INSTRUMENTATION. 1974. 20TH INTERNATIONAL SYMPOSIUM, ALBUQUERQUE, NM. PROCEEDINGS, INSTRUMENTATION IN THE AEROSPACE INDUSTRY, V.20, ADVANCES IN TEST MEASUREMENT, V.11. 19-9

PROCEEDINGS OF AN ADVANCED NUCLEAR PROPULSION SYMPOSIUM. 30-65

SYNCHRONOUS
ENERGETIC PARTICLE DETECTOR FOR A SYNCHRONOUS SATELLITE 19-6

SYNCHROTRON
SYNCHROTRON RADIATION SPECTRUM FOR A RELATIVISTIC PLASMA COLUMN. 10-143

SYNTHESES
REDUCTIVE SYNTHESES OF TRANSITION METAL FLUORIDE COMPOUNDS. THE SYNTHESIS OF RHENIUM, OSMIUM AND IRIDIUM PENTAFLUORIDES AND TETRAFLUORIDES. 7-16

SYNTHESES WITH STABLE ISOTOPES: SODIUM CYANIDE - CARBON -13. 7-18

SYNTHESES WITH STABLE ISOTOPES: UREA (CARBON -13), UREA (CARBON -12), AND UREA (CARBON -13,NITROGEN -15). 7-19

SYNTHESIS
RATE OF DNA SYNTHESIS DURING S PHASE BY MAMMALIAN CELLS IN VITRO. 5-124

RNA SYNTHESIS IN CHINESE HAMSTER CELLS. 3. NON-COORDINATE INCREASES DURING INTERPHASE IN SYNTHESIS RATES FOR INFORMOSOMAL, POLYSOMAL, AND HETEROGENEOUS NUCLEAR RNAS. 5-129

APPEARANCE OF CYTOPLASMIC INFORMOSOMES IN CULTURED CHINESE HAMSTER CELLS IN THE ABSENCE OF PROTEIN SYNTHESIS. 5-4

LACK OF SPECIFIC CORRELATION OF THE DEOXYCYTIDINE TRIPHOSPHATE POOL LEVEL WITH RATE OF DNA SYNTHESIS. 5-91

REDUCTIVE SYNTHESES OF TRANSITION METAL FLUORIDE COMPOUNDS. THE SYNTHESIS OF RHENIUM, OSMIUM AND IRIDIUM PENTAFLUORIDES AND TETRAFLUORIDES. 7-18

SYNTHESIS OF CYCLOPENTADIENYL-X CARBON -13 THALLIUM. 7-20

SYNTHESIS OF PENTAFLUORIDES. 7-21

SYNTHESIS, CHARACTERIZATION AND STRUCTURE OF URANIUM OXIDE TETRAFLUORIDE. 9-27

LASER DRIVEN SYNTHESIS OF BORON HYDROCHLORIDE FROM BORON CHLORIDE AND HYDROGEN. 20-69

SYNTHESIS OF HOLOGRAMS FOR COMPUTER GENERATED OUTPUT. 21-79

SYNTHESIS OF HOLOGRAMS FROM COMPUTER GENERATED OUTPUT. 21-80

SYSTEM
SEALED REFLUX DISSOLUTION SYSTEM. 2-25

DISTRIBUTION OF SUPERNOVA REMNANTS IN THE GALAXY: EVIDENCE FOR A TUNNEL SYSTEM. 3-13

IMAGE INTENSIFICATION AND VIDEO RECORDING SYSTEM FOR ASTRONOMICAL OBSERVATIONS. 3-22

PASSIVE ELECTRONIC IDENTIFICATION AND TEMPERATURE MONITORING SYSTEM, JULY 1, 1974 - JUNE 30, 1975. 5-109

CELL CLASSIFICATION BY MULTIANGLE LASER LIGHT SCATTERING IN A FLOW SYSTEM. 5-20

CLASSIFICATION OF HUMAN LEUKOCYTES BY MULTIANGLE LASER LIGHT SCATTERING IN A FLOW SYSTEM. 5-41

DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, APRIL 1 - JUNE 30, 1975. 5-50

DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, SEPTEMBER 1, 1974 - MARCH 1, 1975. 5-51

FLOW SYSTEM MULTIANGLE LIGHT SCATTERING INSTRUMENT FOR BIOLOGICAL CELL CHARACTERIZATION. 5-66

FLOW SYSTEM MULTIANGLE LIGHT SCATTERING INSTRUMENT FOR CELL CHARACTERIZATION. 5-67

SYSTEM FOR STUDYING THE INITIAL STAGES OF GAS - METAL REACTIONS. 7-22

ECONOMIC AND SYSTEM ASPECTS OF A SUPERCONDUCTING MAGNETIC ENERGY STORAGE DEVICE AND A DC SUPERCONDUCTING TRANSMISSION LINE. 8-14

100 MJ SUPERCONDUCTING MAGNETIC ENERGY STORAGE SYSTEM. 8-2

PROPOSED METS (MAGNETIC ENERGY TRANSFER AND STORAGE) - FTR (FUSION TEST REACTOR) COUPLED SUPERCONDUCTING PROTOTYPE SYSTEM. 8-40

STABILITY OF A DIFFUSE, HIGH BETA, L = 1 SYSTEM. 10-133

MAGNETIC ENERGY STORAGE SYSTEM USED IN ZT-1. 10-76

MONZO-GRANITE ALTERATION IN A HYDROTHERMAL SYSTEM. 11-31

CONTROL SYSTEM DESIGN AND SIMULATION FOR A SOLAR HEATED AND COOLED BUILDING. 12-3

DEVELOPMENT PROGRAM FOR THE HIGH TEMPERATURE NUCLEAR PROCESS HEAT SYSTEM. 12-6

TRISTAN MAGNETIC SPECTROMETER SYSTEM. 13-17

GAS HANDLING SYSTEM FOR STUDIES OF TRITIUM CONTAINING MATERIALS. 13-6

SPIN LATTICE RELAXATION IN AN AM(XN) SYSTEM: APPLICATION TO CARBON -13 RELAXATION IN ENRICHED MOLECULES. 14-11

INTRINSICALLY SAFE STRAIN GAGE MONITORING SYSTEM. 19-11

PROPER CALCULATION OF THE FRACTIONAL ORDER NUMBER AT THE CENTER OF A FABRY-PEROT INTERFEROMETER FRINGE SYSTEM. 19-16

QUANTUM LIMITED NEAR INFRARED VIDICON CAMERA SYSTEM. 19-17

OPTICAL QUALITY STUDY OF THE LASL CARBON DIOXIDE LASER AMPLIFIER SYSTEM. 20-111

THIN FILM DETECTOR SYSTEM FOR LASER -FUSION STUDIES. 20-154

ACOUSTIC MEASURING SYSTEM FOR DETERMINING THE BREAKING STRENGTH OF MICROBALLOONS. 20-2

INTERFEROMETRIC MEASUREMENTS OF THE NONLINEAR REFRACTIVE INDEX COEFFICIENT RELATIVE TO CARBON DISULFIDE IN LASER SYSTEM RELATED MATERIALS. 20-57

LASER FUSION EXPERIMENTS AT LOS ALAMOS. PART 2: THE LASL CARBON DIOXIDE SHORT PULSE OSCILLATOR - AMPLIFIER SYSTEM. 20-70

LASL 2.5 KILOJOULE CARBON DIOXIDE SHORT PULSE LASER SYSTEM. 20-84

MULTILINE OPERATION OF A CARBON DIOXIDE OSCILLATOR/AMPLIFIER SYSTEM. 20-98

COMPUTERIZED INVENTORY/DESIGN SYSTEM FOR GRAPHITE MOLDS. 21-23

INTERACTIVE GRAPHICS SYSTEM FOR MECHANICAL DRAFTING AND DESIGN. 21-42

REMOTE TRANSIENT DATA ACQUISITION SYSTEM. 21-69

INCREASING THE RELEVANCE OF DATA PRESENTED TO THE OPERATORS IN AN ACCELERATOR CONTROL SYSTEM 22-19

MONITOR: A VERSATILE REMOTE HANDLING SYSTEM. 22-32

OPERATING EXPERIENCE WITH LAMPF MAIN BEAM LINES INSTRUMENTATION AND CONTROL SYSTEM. 22-36

CALIBRATION OF THE BEAM SPILL CONTROL SYSTEM AT LAMPF. 22-7

NJOY: A NEUTRON AND PHOTON CROSS SECTION PROCESSING SYSTEM. 25-138

PERFORMANCE OF THE LASL Q3D SPECTROMETER AND HELIX DETECTOR SYSTEM. 25-157

Q3D SPECTROMETER WITH A HELIX DETECTOR SYSTEM. 25-186

CHARGE INDEPENDENCE IN THE MASS 6 SYSTEM AS OBSERVED IN THE LITHIUM -6 (TRITON, HELIUM -3)HELIUM -6(0.0) AND LITHIUM -6 (TRITON,TRITON') LITHIUM -6 (3.56) REACTIONS. 25-28

HIGH ENERGY NUCLEAR REACTIONS IN OUR PLANETARY SYSTEM. 25-93

AUTOMATED NONDESTRUCTIVE ASSAY SYSTEM FOR THE MEASUREMENT OF IRRADIATED ROVER FUEL. 26-2

SYSTEM CONTROL FOR THE MODULATED CALIFORNIUM -252 SOURCE SHUFFLER. 26-27

SYSTEMATIC
SYSTEMATIC AND GRAPHICAL METHOD FOR GENERATING THE KINETIC EQUATIONS GOVERNING THE GROWTH OF AGGREGATES. 6-16

SYSTEMATICS
SYSTEMATICS OF PION AND PROTON INTERACTIONS WITH NICKEL NUCLIDES. 25-214

SYSTEMS
DIFFUSION ANALYSES FOR SYSTEMS OF SPHERICAL PARTICLES. 2-12

PORTABLE FLASH X RAY SYSTEMS APPLICATIONS AND TECHNIQUES. 2-20

FORMAL DERIVATION OF EFFECTIVE SPIN HAMILTONIANS FOR MACROSCOPIC MAGNETIC INSULATOR SYSTEMS. 4-24

CELL PREPARATION AND STAINING FOR FLOW SYSTEMS. 5-29

INTRODUCTION TO FLOW SYSTEMS FOR CELL ANALYSIS AND SORTING. 5-82

MECHANISM AND TYPES OF EXPLOSIVE BEHAVIOR IN HYDROGEN - FLUORINE SYSTEMS. 6-11

CHEMISTRY OF PLUTONIUM IN RELATION TO ITS BEHAVIOR IN BIOLOGICAL AND ENVIRONMENTAL SYSTEMS. 7-3

FUNDAMENTAL ASPECTS OF SYSTEMS FOR THE THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER. 7-8

DEVELOPMENT OF A SUPERCONDUCTING SWITCH FOR MAGNETIC ENERGY STORAGE SYSTEMS. 8-12

EVALUATION OF PRE-IMPREGNATED RESIN -GLASS SYSTEMS FOR INSULATING SUPERCONDUCTING MAGNETS. 8-16

SUPERCONDUCTING MAGNETIC AND INERTIAL ENERGY PULSED POWER SYSTEMS. 8-45

APPLICATIONS OF SUPERCONDUCTIVITY TO ELECTRIC POWER SYSTEMS. 8-5

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, APRIL 1 - JUNE 30, 1975. 8-58

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JANUARY 1 - MARCH 31, 1975. 8-59

WILL SUPERCONDUCTING MAGNETIC ENERGY STORAGE BE USED ON ELECTRIC UTILITY SYSTEMS 8-62

SPECTRUM OF IDEAL MAGNETOHYDRODYNAMICS OF AXISYMMETRIC TOROIDAL SYSTEMS. 10-127

XPECT: A MONTE CARLO PROGRAM TO PREDICT THE EXPECTED TIME TO NEXT FAILURE IN CONTROLLED THERMONUCLEAR RESEARCH SYSTEMS. 10-156

ENERGY SPECTRUM OF INJECTED FUSSILE IONS IN TWO COMPONENT FUSION SYSTEMS. 10-29

FUSION REACTOR SYSTEMS. 10-44

HIGH DENSITY LINEAR SYSTEMS FOR FUSION POWER. 10-48

INFLUENCE OF SELF FIELDS ON THE FILAMENTATION INSTABILITY IN RELATIVISTIC BEAM PLASMA SYSTEMS. 10-58

INFLUENCE OF SELF FIELDS ON THE VLASOV EQUILIBRIUM AND STABILITY PROPERTIES OF RELATIVISTIC ELECTRON BEAM - PLASMA SYSTEMS. 10-59

DRY HOT ROCK SYSTEMS. 11-13

ROCK MELTING HOLE PRODUCTION SYSTEMS FOR EXPLORATORY AND PRODUCTION GEOTHERMAL ENERGY WELLS. 11-47

MODELING AND HYBRID SIMULATION OF SOLAR ENERGY SYSTEMS. 12-12

DESIGN CONSIDERATIONS OF AIR COOLED COLLECTOR/ROCK-BIN STORAGE SOLAR HEATING SYSTEMS. 12-4

VENTILATION SYSTEMS ANALYSIS DURING TORNADO CONDITIONS, JANUARY - JUNE 1975. 13-19

VENTILATION SYSTEMS ANALYSIS DURING TORNADO CONDITIONS, JULY THROUGH DECEMBER 1974. 13-20

GRAVITY ASSIST HEAT PIPES FOR THERMAL CONTROL SYSTEMS. 13-7

LIMITING PERFORMANCE OF STRUCTURAL SYSTEMS. 13-9

DESIGN OF VENTILATION AND AIR CLEANING SYSTEMS FOR THE NEW LOS ALAMOS PLUTONIUM FACILITY. 17-10

COMPUTER STUDIES ON FLUID SYSTEMS OF HARD CORE PARTICLES. 18-5

SYSTEMS ANALYSIS OF LASER FUSION POWER PLANTS. 20-148

COHERENT MULTIPLE PHOTON PUMPING OF SIMPLE QUANTUM MECHANICAL SYSTEMS. 20-16

EQUAL AREA PROPERTY OF NARROW RESONANCES INDUCED IN COUPLED DOPPLER BROADENED SYSTEMS BY INTENSE LASER RADIATION. 20-40

ANALYSIS OF HOMOPOLAR GENERATORS AND SUPERCONDUCTING INDUCTIVE ENERGY STORAGE SYSTEMS AS POWER SUPPLIES FOR HIGH ENERGY, SPACE BASED LASERS. 20-7

LASER SYSTEMS FOR HIGH PEAK POWER APPLICATIONS. 20-82

GAUSSIAN ELIMINATION FOR DENSE SYSTEMS ON STAR AND A NEW PARALLEL ALGORITHM FOR DIAGONALLY DOMINANT TRIDIAGONAL SYSTEMS. 21-36

HYBRID DIGITAL/OPTICAL SYSTEMS FOR NONLINEAR IMAGE RESTORATION. 21-40

LOW LYING LEVELS OF FIVE NUCLEON SYSTEMS. 25-106

PARITY NONCONSERVATION IN TWO NUCLEON SYSTEMS. 25-154

RELATIVISTIC SECOND ORDER ENERGY FUNCTIONAL FOR FINITE FERMION SYSTEMS. 25-196

SEPARABLE SOLUTIONS FOR DIRECTLY INTERACTING PARTICLE SYSTEMS. 25-204

CALIFORNIUM -252 NEUTRON SOURCE SYSTEMS FOR THE ASSAY OF URANIUM AND PLUTONIUM IN FUEL RODS. 26-3

ONSET CRITERIA FOR INSULATING ELECTRONIC TRANSITIONS IN THREE DIMENSIONAL SYSTEMS. 27-12

REACTIVITY CHANGES DUE TO BUBBLE GROWTH OR COLLAPSE IN MOLTEN FUEL SYSTEMS. 28-36

NUCLEAR PROPULSION TECHNOLOGY TRANSFER TO ENERGY SYSTEMS. 30-51

POWER DENSITY ASYMMETRIES IN COUPLED CORE REACTOR SYSTEMS. 30-64

T

EQUATION OF STATE OF NITROGEN TO 21 KBAR FROM SIMULTANEOUS MEASUREMENT OF P V T AND SOUND VELOCITY. 4-22

QUANTITATIVE MEASUREMENT OF SV40 T -ANTIGEN PRODUCTION. 5-120

PREPARATION OF HIGH T(C) NIOBIUM(3) GERMANIUM SUPERCONDUCTORS BY CHEMICAL VAPOR DEPOSITION. 8-37

YTTRIUM -89 (TRITON,PROTON) YTTRIUM -91 REACTION AT E(T) = 20 MEV. 25-231

CONSTRAINTS ON WAVE FUNCTION MODELS OF THE NUCLEON - NUCLEON T MATRIX. 25-37

COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATION FOR THE FULLY OFF SHELL TWO NUCLEON T MATRIX. 25-38

DEPENDENCE OF THE OFF ENERGY SHELL T MATRIX ON THE TOTAL THREE MOMENTUM. 25-45

TA-33-21
DISPOSITION OF TA-33-21, A PLUTONIUM CONTAMINATED EXPERIMENTAL FACILITY. 17-15

TABLEAU
DIRECT USE OF YOUNG TABLEAU ALGEBRA TO GENERATE THE CLEBSCH-GORDAN COEFFICIENTS OF SU(2)*. 27-4

TABULAR
GENERAL PURPOSE COMPUTER PROGRAM FOR MANIPULATING AND ANALYZING TABULAR DATA. 21-37

TACTICAL
COMPARISON OF U.S. - ALLIED AND SOVIET TACTICAL NUCLEAR FORCE CAPABILITIES AND POLICIES. 30-12

LASL PANEL ON TACTICAL NUCLEAR WARFARE. REPORT OF THE THIRD MEETING, MAY 14-15, 1974. 30-39

TAG
FTR (FUSION TEST REACTOR) TAG BURNUP. 28-14

TAIL
ION TAIL FILLING IN LASER FUSION TARGETS. 20-60

TAMPED
TAMPED THERMONUCLEAR BURN OF DEUTERIUM -TRITIUM MICROSPHERES. 20-149

TAMPER
NEUTRON PROPERTIES OF TAMPER MATERIALS. 2. 25-133

TANTALUM
INVESTIGATION OF THE SOURCES OF ASYMMETRY EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT IN TYPE II TANTALUM WIRES. 8-20

OBSERVATION OF ASYMMETRY EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT IN TYPE II TANTALUM WIRES. 8-32

DEGRADATION OF PIONEER TYPE TANTALUM ALLOY - PLUTONIUM DIOXIDE HEAT SOURCES. 23-9

TAPES
TEMPERATURE AND CURRENT DEPENDENCE OF THE MAGNETIC FIELD PROFILES OF NIOBIUM(3)TIN TAPES CARRYING A CURRENT. 8-52

TARGET
DEUTERIUM FLOW LOOP FOR A SUPERSONIC GAS TARGET INTENSE NEUTRON SOURCE. 10-20

QUALITY SELECTION OF LASER - FUSION TARGET MICROBALLOONS. 20-126

RECENT DEVELOPMENTS IN LASER - FUSION TARGET COATINGS. 20-129

RECENT DEVELOPMENTS IN UNDERSTANDING THE PLASMA PHYSICS OF LASER TARGET INTERACTIONS. 20-130

STATUS REPORT. LASER FUSION TARGET FABRICATION, 30 APRIL 1974. 20-139

STRUCTURED FUSION TARGET DESIGNS. 20-145

INDICATIONS OF STRONGLY FLUX LIMITED ELECTRON THERMAL CONDUCTION IN LASER TARGET EXPERIMENTS. 20-55

LASER - FUSION TARGET FABRICATION: APPLICATION OF A POLYMERIC ABLATOR COATING TO A BALL AND DISK TARGET DESIGN BY THE PHYSICAL VAPOR DEPOSITION OF POLYETHYLENE. 20-66

METHODS TO REDUCE THE EFFECTS OF SELF LASING AND TARGET REFLECTIONS IN CARBON DIOXIDE LASERS. 20-92

VAPOR PHASE COATINGS OF METALS AND ORGANICS FOR LASER FUSION TARGET APPLICATIONS. 23-63

MONTE CARLO STUDIES OF TARGET/MODERATOR CONFIGURATIONS FOR THE WEAPONS NEUTRON RESEARCH FACILITY. 25-121

50 MEV POLARIZED NEUTRON FACILITY INCORPORATING A HIGH PRESSURE TRITIUM GAS TARGET. 25-6

LOGNORMAL DAMAGE FUNCTION WITH OFFSET CIRCULAR NORMAL TARGET AND WEAPON LOCATIONS: MEAN AND OTHER MOMENTS. 30-43

TARGETS
ISOLATION OF STRONTIUM -82 FROM 200-600 MEV PROTON IRRADIATED MOLYBDENUM TARGETS FOR BIOMEDICAL APPLICATIONS. 5-85

THIN WINDOWS FOR GASEOUS AND LIQUID TARGETS: AN OPTIMIZATION PROCEDURE. 8-56

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 1. X RAY METHOD. 20-102

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 2. PHOTONUCLEAR (DEUTERIUM (GAMMA,NEUTRON)) METHOD. 20-103

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 3. ELASTIC SCATTERING METHOD. 20-104

BETA ABSORPTION IN TRITIATED TARGETS AND X RAY COUNTING CORRECTIONS. 20-11

STEADY ABLATION OF LASER TARGETS IN SPHERICAL GEOMETRY. 1. THE MODEL. 20-140

STEADY ABLATION OF LASER TARGETS IN SPHERICAL GEOMETRY. 2. PHYSICAL RESULTS. 20-141

TWO DIMENSIONAL CALCULATIONS OF ASYMMETRIC LASER FUSION TARGETS USING IRIS. 20-158

X RAY CONTINUUM AND LINE RADIATION FROM PLASMAS PRODUCED BY 10.6 MICROMETER LASER FOCUSED ON FLAT TARGETS. 20-164

ELECTRICALLY IMPLODED CYLINDRICAL FUSION TARGETS. 20-34

FABRICATION OF LITHIUM DEUTERIUM (0.5) TRITIUM (0.5) MICROSPHERES FOR USE AS LASER FUSION TARGETS. 20-43

IMPLOSION, STABILITY, AND BURN OF MULTISHELL FUSION TARGETS. 20-54

ION TAIL FILLING IN LASER FUSION TARGETS. 20-60

LASER DRIVEN IMPLOSION OF SPHERICAL DEUTERIUM - TRITIUM TARGETS TO THERMONUCLEAR BURN CONDITIONS. 20-68

MICROSPHERICAL LASER TARGETS BY CHEMICAL VAPOR DEPOSITION. 20-94

RADIOCHEMICAL INVESTIGATION OF REACTIONS OF ARGON -40 AND KRYPTON -84 IONS WITH URANIUM -238 TARGETS. 25-193

TATB
INFLUENCE OF METALS ON THE THERMAL DECOMPOSITION OF S-TRIAMINOTRINITROBENZENE (TATB). 15-15

TEACH
WHAT CAN RAPIDITY GAPS TEACH US ABOUT CLUSTERING 25-229

TECHNICAL
CENTRAL COMPUTING FACILITY PLANNING STUDY: TECHNICAL OVERVIEW. 21-16

NUMERICAL METHODS. LOS ALAMOS TECHNICAL SERIES, VOLUME 2, PART 1, CHAPTERS 1-5. 21-57

NUMERICAL METHODS. LOS ALAMOS TECHNICAL SERIES, VOLUME 2, PART 2, CHAPTERS 6-8. 21-58

THERMAL AND OTHER PROPERTIES OF REFRACTORIES. TECHNICAL REPORT PROGRAM NO. R056. 23-58

TECHNIQUE
MODIFIED REPLICATE PLATING TECHNIQUE FOR USE IN SOMATIC CELL MUTANT SELECTION. 5-102

THEORETICAL SIMULATIONS OF THE GAS EXPLOSIVE SIMULATION TECHNIQUE (GEST) EXPERIMENTS. 15-26

TRANSFER TECHNIQUE FOR ELECTRON MICROSCOPY OF MEMBRANE FILTER SAMPLES. 17-60

DETONATION OF HIGH EXPLOSIVES IN LAGRANGIAN HYDRODYNAMIC CODES USING THE PROGRAMMED BURN TECHNIQUE. 18-9

NEW COMPUTER TECHNIQUE FOR NONLINEAR OPTICAL PROBLEMS. 20-101

APPLICATION OF MODERN GAMMA SCANNING TECHNIQUE. 23-1

TECHNIQUE FOR SIMULTANEOUS ADJUSTMENT OF LARGE NUCLEAR DATA LIBRARIES. 25-215

BENCHMARK DOPPLER MEASUREMENTS USING A HYBRID STATIC/DYNAMIC HEATING TECHNIQUE. 28-3

TECHNIQUES
PORTABLE FLASH X RAY SYSTEMS APPLICATIONS AND TECHNIQUES. 2-20

UNIQUE TECHNIQUES FOR CELL CYCLE ANALYSIS UTILIZING MITHRAMYCIN AND FLOW MICROFLUOROMETRY. 5-144

UNIQUE REFRACTORY TECHNIQUES FOR FABRICATING SUBTERRENE PENETRATORS. 11-60

ADAPTIVE CONTROL TECHNIQUES FOR ON-AXIS RADARS. 13-1

MEASUREMENTS OF GAMMA-F/GAMMA-N USING DIRECT REACTION FISSION TECHNIQUES. 16-6

DEVELOPMENT OF AIR SAMPLING TECHNIQUES, LASL PROJECT R-069, NIOSH-IA-74-10, APRIL 1 - SEPTEMBER 30, 1974. 17-13

SHOCK WAVE TECHNIQUES FOR THE EXAMINATION OF PHASE TRANSITIONS. 18-44

FAST FRAMING AND X RAY PINHOLE CAMERA TECHNIQUES FOR STUDY OF LASER GENERATED PLASMAS. 20-44

INVESTIGATION OF PATTERN RECOGNITION TECHNIQUES FOR THE IDENTIFICATION OF SPLITTING SURFACES IN MONTE CARLO PARTICLE TRANSPORT CALCULATIONS. 21-44

SURVEY OF THE STATE OF THE ART OF FAST SINGLE TRANSIENT ANALOG TO DIGITAL CONVERTER TECHNIQUES. 21-78

TECHNIQUES FOR HIGH PRECISION MAGNETIC FIELD MAPPING OF LARGE AREA DIPOLES. 22-51

CAPSULE STORAGE AND DENSITY - ANALOG TECHNIQUES. 24-4

TECHNIQUES WITH CALIFORNIUM -252 FOR NEUTRON CAPTURE GAMMA RAY SPECTROSCOPY. 25-216

COMPARISON OF COPPER AND GOLD ORE RESPONSES TO NEUTRON CAPTURE AND DECAY GAMMA RAY TECHNIQUES WITH CALIFORNIUM -252. 25-33

INSTRUMENTATION TECHNIQUES FOR NDA (NONDESTRUCTIVE ANALYSIS) OF FISSILE MATERIAL. 26-10

PERFORMANCE OF SELECTED NONDESTRUCTIVE ASSAY TECHNIQUES ON LWR (LIGHT WATER REACTOR) (PLUTONIUM,URANIUM) DIOXIDE AND URANIUM DIOXIDE FUEL. 26-21

GENERAL EQUIPMENT AND TECHNIQUES. 30-30

CATHODIC VACUUM ETCHING TECHNIQUES FOR GRAPHITE FUEL ELEMENT SECTIONS. 30-9

TECHNOLOGICAL
ENVIRONMENTAL AND TECHNOLOGICAL IMPLICATIONS OF A THETA PINCH FUSION POWER PLANT. 10-33

TECHNOLOGIES
PROPOSED FEDERAL HELIUM CONSERVATION POLICY AS RELATED TO THE HELIUM DEMANDS OF ENERGY RELATED NEW TECHNOLOGIES. 30-67

TECHNOLOGY
STABLE ISOTOPE TECHNOLOGY AND ABNORMAL MAMMALIAN EMBRYONIC DEVELOPMENT. 5-137

GEOTHERMAL ENERGY: HOT DRY ROCK TECHNOLOGY. 11-22

REVIEW OF GEOTHERMAL WELL TECHNOLOGY AND THE POTENTIAL APPLICATIONS OF SUBTERRENE ROCK MELTING DEVICES. 11-46

ROCK MELTING TECHNOLOGY AND GEOTHERMAL DRILLING. 11-48

TRANSDUCER TECHNOLOGY FOR DEEP BOREHOLE GEOTHERMAL ENVIRONMENTS. 11-59

REVIEW OF AVAILABLE TECHNOLOGY FOR NARROW BAND TRANSMISSION OF VISUAL MATERIAL. 13-15

LASER APPLICATION OF HEAT PIPE TECHNOLOGY IN ENERGY RELATED PROGRAMS. 20-67

NONDESTRUCTIVE ASSAY TECHNOLOGY AND IN-PLANT DYNAMIC MATERIALS CONTROL. 26-15

NONDESTRUCTIVE ASSAY TECHNOLOGY AND IN-PLANT MATERIALS CONTROL: DYMAC. 26-16

NUCLEAR PROPULSION TECHNOLOGY TRANSFER TO ENERGY SYSTEMS. 30-51

QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENDING JULY 31, 1967. 30-70

TELEMETRY
SHORT RANGE RADIO TELEMETRY FOR ELECTRONIC IDENTIFICATION USING MODULATED RF BACKSCATTER. 19-18

TELEVISION
DIGITAL TELEVISION CAMERA FOR A THOMSON SCATTERING DETECTOR. 10-21

TELLURIUM
MOSSBAUER STUDY OF RARE GAS MATRIX ISOLATED TELLURIUM -125 DIMERS, TELLURIUM -125 HEXAFLUORIDE, AND TELLURIUM -125 TETRACHLORIDE MOLECULES. 4-40

TEMPERATURE
PROTON TEMPERATURE ANISOTROPY INSTABILITIES. 1-21

IMPLIED TEMPERATURE DEPENDENCE OF THE GRUNEISEN PARAMETER. 4-30

OSCILLATOR STRENGTHS FROM LINE ABSORPTION IN A HIGH TEMPERATURE FURNACE. 2. THE (0,0) BAND OF THE B(2)SIGMA(+) -X(2)SIGMA (+) TRANSITION IN CYANOGEN. 4-48

PASSIVE ELECTRONIC IDENTIFICATION AND TEMPERATURE MONITORING SYSTEM, JULY 1, 1974 - JUNE 30, 1975. 5-109

TIME DEPENDENT SOLUTION TO INTERSTITIAL DIFFUSION IN A TEMPERATURE GRADIENT. 7-24

PROPERTIES OF BONE AT LOW TEMPERATURE AND ITS POTENTIAL AS CRYOSTAT SUPPORT MATERIAL. 8-39

TEMPERATURE AND CURRENT DEPENDENCE OF THE MAGNETIC FIELD PROFILES OF NIOBIUM(3)TIN TAPES CARRYING A CURRENT. 8-52

VERY LOW TEMPERATURE PROPERTIES OF LIQUID HELIUM -3. 8-61

ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 2. SUPERCONDUCTING TRANSITION TEMPERATURE. 9-2

PLASMA TEMPERATURE MEASUREMENTS ON THE ZT-1 PINCH. 10-103

STABILITY AND TEMPERATURE MEASUREMENTS ON ZT-1. 10-131

HIGH TEMPERATURE MEASUREMENTS OF THE STARK BROADENED HE-II 4686 ANGSTROM LINE PROFILE. 10-49

ION TEMPERATURE MEASUREMENT BY LASER SCATTERING AT 2.8 MICRONS. 10-65

ION TEMPERATURE MEASUREMENTS ON THE ZT-1 REVERSED FIELD PINCH. 10-66

LABORATORY AND NUMERICAL STUDIES OF WATER - GRANITE INTERACTIONS AT ELEVATED TEMPERATURE AND PRESSURE. 11-25

NEW AND MORE ACCURATE METHOD FOR THE DIRECT MEASUREMENTS OF EARTH TEMPERATURE GRADIENTS IN DEEP BOREHOLES. 11-33

PERMEABILITY OF A MONZO-GRANITE AT ELEVATED TEMPERATURE. 11-37

TEMPERATURE MEASUREMENTS IN THE PRECAMBRIAN SECTION OF GEOTHERMAL TEST HOLE NO.2 11-56

DEVELOPMENT PROGRAM FOR THE HIGH TEMPERATURE NUCLEAR PROCESS HEAT SYSTEM. 12-6

CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTRA OF ALKYLCORRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13: THE EFFECT OF TEMPERATURE AND LIGHT. 14-1

HIGH TEMPERATURE VACUUM THERMAL STABILITY TESTS OF EXPLOSIVES. 15-13

IODINE -131 RELEASE FROM AN HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) DURING THE LOFC (LOSS OF COOLANT) ACCIDENT. 17-30

ROTATIONAL TEMPERATURE IN A HIGH PRESSURE PULSED CARBON DIOXIDE LASER. 20-134

TEMPERATURE DEPENDENT ABSORPTION SPECTRUM OF THE NU(3) BAND OF SULFUR HEXAFLUORIDE AT 10.6 MICRONS. 20-150

TEMPERATURE DEPENDENT ORDINARY AND THERMAL DIFFUSION OF TRITIUM THROUGH METAL BARRIERS. 20-151

TIME DEPENDENCE OF ROTATIONAL TEMPERATURE IN A HIGH PRESSURE PULSED CARBON DIOXIDE LASER. 20-155

EFFECT OF PRESSURE ON CURIE TEMPERATURE OF URANIUM (FE1-XMNX)2 COMPOUNDS. 23-12

ELEVATED TEMPERATURE STRENGTHENING OF MELT GROWN SAPPHIRE BY ALLOYING. 23-19

FRACTURE BEHAVIOR OF A PLATINUM(30 PERCENT) RHENIUM(8 PERCENT) TUNGSTEN ALLOY BETWEEN ROOM TEMPERATURE AND 1300 DEGREES CELSIUS. 23-22

LARGE STRAIN DEFORMATION OF POLYCRYSTALLINE METALS AT LOW HOMOLOGOUS TEMPERATURE. 23-32

LOW TEMPERATURE THERMAL AND ELECTRICAL PROPERTIES OF CHEMICAL VAPOR DEPOSITED NIOBIUM(3)GERMANIUM. 23-34

MATRIX MOTION OF LOW VOLUME MATRIX TUNGSTEN/NICKEL/IRON COMPOSITES SINTERED IN A TEMPERATURE GRADIENT. 23-37

PROCESS FOR IMPROVING THE LOW TEMPERATURE DUCTILITY OF TUNGSTEN BASE COMPOSITES. 23-46

ZIRCONIUM CARBIDE, A KEY INGREDIENT FOR HIGH TEMPERATURE NUCLEAR FUELS. 23-65

GAUGE THEORY AT FINITE TEMPERATURE OF SU(3) SYMMETRY BREAKING AND QUARK MASSES. 25-87

NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL RODS. 26-12

IN-PLANT NONDESTRUCTIVE ASSAY OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL MATERIALS. 26-9

EXTENDING THE TEMPERATURE RANGE OF THE HTR. 28-13

HIGH TEMPERATURE NUCLEAR REACTORS AS AN ENERGY SOURCE FOR HYDROGEN PRODUCTION. 28-17

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, JANUARY THROUGH MARCH 1975. 28-18

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, APRIL -JUNE 1975. 28-19

HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, JULY -SEPTEMBER 1975. 28-20

PROPOSAL FOR ANALYSIS OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) CORE RESPONSE TO SEISMIC INPUT. 28-31

QUARTERLY REPORT. HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY RESEARCH PROGRAM, OCTOBER THROUGH DECEMBER 1974. 28-34

TEMPERATURES
OBSERVED CORONAL TEMPERATURES AT 1.37 SOLAR RADII IN THE REGION OF A HELMET STRUCTURE. 3-32

ANOMALOUS THERMAL PROPERTY BEHAVIOUR OF URANIUM AT LOW TEMPERATURES. 8-4

THEORY OF MAGNETIZED ISING ANTIFERROMAGNETS AT LOW TEMPERATURES. 8-53

NUMERICAL STUDIES OF THE THERMAL EVOLUTION OF INTRUSIONS IN RELATIONSHIP TO OBSERVED TEMPERATURES IN GT-2. 11-34

DIRECT EVALUATION OF TRANSIENT SURFACE TEMPERATURES AND HEAT FLUXES. 20-25

EXPERIMENTS ON URANIUM LOSS FROM URANIUM LOADED GRAPHITE AT ELEVATED TEMPERATURES. 23-20

EVIDENCE FOR ORDER DISORDER IN PLUTONIUM CARBIDE (0.80) AT LOW TEMPERATURES THROUGH SPECIFIC HEAT MEASUREMENTS. 29-2

TEMPORAL
TEMPORAL STRUCTURE OF S PHASE. 5-140

DISPERSIVE TEMPORAL COMPRESSION OF THE ENERGY IN LASER PULSES A REVIEW. 20-28

TENSILE
EFFECT OF STRAIN RATE ON THE TENSILE PROPERTIES OF ALPHA AND DELTA STABILIZED PLUTONIUM. 23-14

TENSION
LIFETIME, SURFACE TENSION, AND IMPURITY EFFECTS IN ELECTRON HOLE CONDENSATION. 27-10

LIFETIME, SURFACE TENSION, AND IMPURITY EFFECTS IN ELECTRON HOLE CONDENSATION. 27-9

TENSOR
POTENTIAL WELL SHAPES FOR TENSOR TERMS INVOLVING SPIN. 25-177

CHARGE ASYMMETRY EFFECTS AND THE TRINUCLEON BINDING ENERGY. 2. INCLUSION OF THE TENSOR FORCE AND SINGLET REPULSION. 25-27

TERMINAL
ALGORITHMS TO REVEAL GRAPHIC TERMINAL CHARACTERISTICS. 21-1

TERRAIN
SOME OBSERVATIONS OF LOCAL WIND INTERACTIONS IN COMPLEX TERRAIN. 11-55

RATIONAL DYNAMIC LOADS ANALYSIS FOR AIR CUSHION VEHICLES IN RANDOM SEAWAY OR TERRAIN. 30-76

TERRESTRIAL
ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES OCTOBER 1 - DECEMBER 31, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-20

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, APRIL 1 - JUNE 30, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-21

ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JANUARY 1 - MARCH 31, 1975. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-22

ENVIRONMENTAL PATHWAYS OF PLUTONIUM INTO TERRESTRIAL PLANTS AND ANIMALS. 17-24

PROGRESS REPORT. ENVIRONMENTAL AND RADIOLOGICAL SAFETY STUDIES, JULY 1 THROUGH SEPTEMBER 30, 1974. INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH TERRESTRIAL AND AQUATIC ENVIRONMENTS. 17-45

WIND FLOW OVER SIMULATED STRUCTURES FOR MARTIAN AND TERRESTRIAL ATMOSPHERES. 18-55

TEST
SOLAR WIND STREAM EVOLUTION AT LARGE HELIOCENTRIC DISTANCES: EXPERIMENTAL DEMONSTRATION AND THE TEST OF A MODEL. 1-26

SEROLOGIC TEST DEVELOPMENT, JULY 1, 1974 - JUNE 30, 1975. 5-132

ANNUAL REPORT, SEROLOGIC TEST DEVELOPMENT, JULY 1, 1973 THROUGH JUNE 30, 1974. 5-3

EVALUATION OF SOLUBLE ANTIGEN FLUORESCENT ANTIBODY TEST FOR ANTIBODIES TO TRICHINELLA SPIRALIS IN EXPERIMENTALLY INFECTED SWINE. 5-61

10 KA, 300 KJ MAGNETIC ENERGY TRANSFER AND STORAGE (METS) TEST FACILITY. 8-1

INVESTIGATIONS ON POTENTIAL CONDUCTORS FOR A DC SUPERCONDUCTING POWER TRANSMISSION LINE IN A 20 METER TEST BED. 8-21

PROPOSED METS (MAGNETIC ENERGY TRANSFER AND STORAGE) - FTR (FUSION TEST REACTOR) COUPLED SUPERCONDUCTING PROTOTYPE SYSTEM. 8-40

SCYLLAC FUSION TEST REACTOR DESIGN. 10-121

SHIELDING AND ACTIVATION OF A THETA PINCH FUSION TEST REACTOR (TPFTR). 10-124

THETA PINCH FUSION TEST REACTOR. 10-147

APPLICATION OF SENSITIVITY ANALYSIS TO A QUANTITATIVE ASSESSMENT OF NEUTRON CROSS SECTION REQUIREMENTS FOR THE TFTR (TOKAMAK FUSION TEST REACTOR): AN INTERIM REPORT. 10-2

ENERGY STORAGE, COMPRESSION, AND SWITCHING IN A THETA PINCH FUSION TEST REACTOR. 10-30

FAULT ACTIVITY AND SEISMICITY NEAR THE LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST SITE, JEMEZ MOUNTAINS, NEW MEXICO. 11-15

GEOPHYSICAL LOGGING IN LOS ALAMOS SCIENTIFIC LABORATORY GEOTHERMAL TEST HOLE NO.2. 11-19

HYDROLOGIC TESTING GEOTHERMAL TEST HOLE NO.2. 11-24

PLANNING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 1. 11-41

TEMPERATURE MEASUREMENTS IN THE PRECAMBRIAN SECTION OF GEOTHERMAL TEST HOLE NO.2. 11-56

TESTING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 2. 11-57

TESTING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 3. 11-58

MULTIPLE HEPA FILTER TEST METHODS, JULY 1, 1974 - MARCH 31, 1975. 17-32

PERFORMANCE OF MULTIHUNDRED WATT FUELED SPHERE ASSEMBLIES IN THE SAFETY SEQUENTIAL TEST PROGRAM. 17-35

PLUTONIUM, AMERICIUM AND URANIUM CONCENTRATIONS IN NEVADA TEST SITE SOIL PROFILES. 17-43

SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE II: SOLID PROPELLANT FIRE. 17-52

SAFETY TEST NO. S-6, LAUNCH PAD ABORT SEQUENTIAL TEST PHASE III: FSA (FUEL SPHERE ASSEMBLY) IMPACTS. 17-53

SAFETY TEST ON THE STORAGE OF PLUTONIUM TETRAFLUORIDE. 17-54

SPECIFICATIONS AND TEST PROCEDURES FOR AIRLINE TYPE SUPPLIED AIR SUITS. 17-56

SPOT TEST LIMIT OF DETECTION VALUES FOR CARCINOGENIC AROMATIC AMINES AND THEIR HOMOLOGUES AND ANALOGUES. 17-57

NUMERICAL CALCULATION OF THE CYLINDER TEST. 18-28

INSTRUMENTATION, 1974. 20TH INTERNATIONAL SYMPOSIUM, ALBUQUERQUE, NM. PROCEEDINGS, INSTRUMENTATION IN THE AEROSPACE INDUSTRY, V.20, ADVANCES IN TEST MEASUREMENT, V.11. 19-9

QUANTITATIVE BASIS FOR CROSS SECTION REQUIREMENTS FOR A FUSION TEST REACTOR. 25-188

TEST OF THE GENERALIZED PAULI PRINCIPLE AND OF SUPERMULTIPLET SYMMETRY IN THE REACTIONS TRITON + BERYLLIUM -8 TO LITHIUM -6 + HELIUM -6, LITHIUM -6(*0+) + HELIUM -6. 25-217

INELASTIC PROTON SCATTERING AS A TEST OF SURFACE DELTA WAVE FUNCTIONS. 25-98

FTR (FUSION TEST REACTOR) TAG BURNUP. 28-14

PRELIMINARY REPORT, STUDY OF FAST REACTOR SAFETY TEST FACILITIES. 28-28

CONCEPTUAL DESIGN FOR A FAST REACTOR SAFETY TEST FACILITY. PRELIMINARY REPORT. 28-7

DESIGN FOR A ROTARY REACTIVITY CONTROL FOR A TEST REACTOR. 28-9

KIWI TRANSIENT NUCLEAR TEST. 30-36

TESTING
SEROLOGIC TESTING WITH ENZYME LABELED ANTIBODIES (ELA). 5-133

HYDROLOGIC TESTING GEOTHERMAL TEST HOLE NO.2. 11-24

TESTING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 2. 11-57

TESTING, DRILLING, AND LOGGING OF GEOTHERMAL TEST HOLE GT-2, PHASE 3. 11-58

TESTING AND CALIBRATION OF A FARADAY CUP AND OTHER INTENSITY MONITORS FOR THE EXTERNAL PROTON BEAM AT LAMPF. 22-52

STRESS ANALYSIS AND STATIC TESTING OF KIWI GRAPHITE REFLECTOR CYLINDER STRUCTURES. 30-88

TESTS
PERFORMANCE TESTS OF GRAVITY ASSIST HEAT PIPES WITH SCREEN WICK STRUCTURES. 13-12

HIGH TEMPERATURE VACUUM THERMAL STABILITY TESTS OF EXPLOSIVES. 15-13

TESTS OF PARITY CONSERVATION IN PROTON -PROTON AND PROTON - NUCLEUS SCATTERING. 25-218

GAMMA RAY ANGULAR DISTRIBUTIONS AND PARITY TESTS IN THE DECAYS OF POLARIZED LUTETIUM -173 AND LUTETIUM -174M,G. 25-85

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS, JULY 1 - SEPTEMBER 30, 1975. 28-11

EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT -IRRADIATION TESTS, APRIL - JUNE 30, 1975, AND FY 1975. 28-12

QUARTERLY REPORT, EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, JANUARY 1 THROUGH MARCH 31, 1975. 28-32

QUARTERLY REPORT, EXAMINATION OF FAST REACTOR FUELS, FBR (FAST BREEDER REACTOR) ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, AND ANALYTICAL METHODS DEVELOPMENT - IRRADIATION TESTS, OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-33

TETRAAZOCYCLOOCTANE
PROCESS FOR PRODUCING 1,5 DIACETYL 3,7 DINITRO 1,3,5,7 TETRAAZOCYCLOOCTANE. 15-21

TETRABORIDE
INDUCED PARAMAGNETISM IN URANIUM ALLOYS: A BORON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY OF ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND YTTRIUM TETRABORIDE. 14-8

TETRACHLORIDE
MOSSBAUER STUDY OF RARE GAS MATRIX ISOLATED TELLURIUM -125 DIMERS, TELLURIUM -125 HEXAFLUORIDE, AND TELLURIUM -125 TETRACHLORIDE MOLECULES. 4-40

TETRACYANIDE
POTENTIAL CONSTANTS OF POTASSIUM ZINC TETRACYANIDE IN THE CRYSTAL LATTICE. 4-50

TETRAFLUORIDE
SYNTHESIS, CHARACTERIZATION AND STRUCTURE OF URANIUM OXIDE TETRAFLUORIDE. 9-27

SAFETY TEST ON THE STORAGE OF PLUTONIUM TETRAFLUORIDE. 17-54

TETRAFLUORIDES
REDUCTIVE SYNTHESES OF TRANSITION METAL FLUORIDE COMPOUNDS. THE SYNTHESIS OF RHENIUM, OSMIUM AND IRIDIUM PENTAFLUORIDES AND TETRAFLUORIDES. 7-16

TETRANITRATE
PENTAERYTHRITOL TETRANITRATE II: ITS CRYSTAL STRUCTURE AND TRANSFORMATION TO PETN I: AN ALGORITHM FOR REFINEMENT OF CRYSTAL STRUCTURES WITH POOR DATA. 9-17

ISOTHERMAL LINEAR AND VOLUME COMPRESSION OF PENTAERYTHRITOL TETRANITRATE (PETN) TO 10 GPA (100 KBAR) AND THE CALCULATED SHOCK COMPRESSION. 15-16

TFTR
APPLICATION OF SENSITIVITY ANALYSIS TO A QUANTITATIVE ASSESSMENT OF NEUTRON CROSS SECTION REQUIREMENTS FOR THE TFTR (TOKAMAK FUSION TEST REACTOR): AN INTERIM REPORT. 10-2

THALLIUM
SYNTHESIS OF CYCLOPENTADIENYL-X CARBON -13 THALLIUM. 7-20

PHONON THERMAL CONDUCTIVITY OF SUPERCONDUCTING LEAD - THALLIUM ALLOYS. 8-35

THEOREM
GREATEST INTEGER THEOREM FOR FIBONACCI SPACES. 21-38

THEORETIC
MESON - THEORETIC POTENTIALS AND THE HYPERTRITON: A REPLY. 22-31

THEORETICAL
THEORETICAL COLORS FOR CEPHEIDS WITH TRANSFER EFFECTS NOW EVIDENT IN THEIR LIGHT CURVES. 3-45

THEORETICAL SIMULATIONS OF THE GAS EXPLOSIVE SIMULATION TECHNIQUE (GEST) EXPERIMENTS. 15-26

THEORETICAL, ANALYTICAL, AND STATISTICAL INTERPRETATION OF ENVIRONMENTAL DATA. 17-59

THEORETICAL AND EXPERIMENTAL STUDIES OF STRONG SHOCK WAVES IN AIR. 18-48

U.S. THEORETICAL AND COMPUTATIONAL PROGRAM: TRANSPORT THEORY 24-21

PHOTON PROPAGATION IN NUCLEAR MATTER AND THE CORRECTION TO THE THEORETICAL NUCLEAR CHARGE DENSITY. 25-164

PACER PROGRAM. PHASE 1. THEORETICAL AND LABORATORY STUDIES 30-58

THEORY
APPLICATIONS OF LINEAR PULSATION THEORY TO THE CEPHEID MASS PROBLEM AND THE DOUBLE MODE CEPHEIDS. 3-4

CEPHEID PULSATION THEORY AND MULTIPERIODIC CEPHEID VARIABLES. 3-8

ASYMPTOTIC FORM OF PARTITION FUNCTIONS OF LINEAR CHAIN MOLECULES: AN APPLICATION OF RENEWAL THEORY. 4-3

R-MATRIX THEORY FOR ELECTRON - ATOM AND ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS. 4-52

R-MATRIX THEORY FOR ELECTRON - MOLECULE COLLISIONS USING ANALYTIC BASIS SET EXPANSIONS. 2. ELECTRON - HYDROGEN(2) SCATTERING IN THE STATIC EXCHANGE MODEL. 4-53

DNA CONSTANCY IN HETEROPLOIDY AND THE STEM LINE THEORY OF TUMORS. 5-56

IMMUNODIFFUSION IN GELS CONTAINING ERYTHROCYTE ANTIGEN. 1. THEORY FOR DIFFUSION OF ANTISERUM FROM A CIRCULAR WELL. 5-76

THEORY OF MAGNETIZED ISING ANTIFERROMAGNETS AT LOW TEMPERATURES. 8-53

REVIEW OF TOROIDAL THETA PINCH THEORY. 10-115

COUPLING COEFFICIENT SATURATION IN THE NONLINEAR THEORY OF PARAMETRIC INSTABILITIES. 10-14

THEORY AND SIMULATION OF THE PARAMETRIC DECAY OF WHISTLER SOLITARY WAVES. 10-144

EFFECT OF VARIABLE ENTROPY IN THE THEORY OF SPHERICALLY CONVERGENT DETONATION WAVES. 15-8

DIFFUSION OF A PASSIVE SCALAR AT LARGE PRANDTL NUMBER ACCORDING TO THE ABRIDGED LAGRANGIAN INTERACTION THEORY. 18-10

RELATIVISTIC LINEAR THEORY IN THE ABSENCE OF EXTERNAL FIELDS. 20-131

THEORY AND SIMULATION OF RESONANT ABSORPTION IN A HOT PLASMA. 20-152

THEORY OF STIMULATED SCATTERING PROCESSES IN LASER IRRADIATED PLASMAS. 20-153

LINEAR THEORY OF A COLD RELATIVISTIC BEAM PROPAGATING ALONG AN EXTERNAL MAGNETIC FIELD. 20-85

APPROXIMATE SPHERICAL BLAST THEORY INCLUDING SOURCE MASS. 20-9

ON THE MULTIPLICITY OF SOLUTIONS OF A DIFFERENTIAL EQUATION ARISING IN CHEMICAL REACTOR THEORY. 21-60

SELF INTERACTING, BOSON, QUANTUM, FIELD THEORY AND THE THERMODYNAMIC LIMIT IN D DIMENSIONS. 21-72

THEORY OF IRRADIATION INDUCED GROWTH OF FATIGUE CRACKS. 23-57

ANALYTIC TRANSPORT THEORY SOLUTIONS FOR STEADY SOURCES IN PURE ABSORBERS. 24-1

GENERALIZED DIFFUSION THEORY FOR CALCULATING THE NEUTRON TRANSPORT SCALAR FLUX. 24-12

U.S. THEORETICAL AND COMPUTATIONAL PROGRAM: TRANSPORT THEORY. 24-21

MICROSCOPIC THEORY OF NUCLEAR DISSIPATION. 25-118

MODELS BASED ON MULTICHANNEL R-MATRIX THEORY FOR EVALUATING LIGHT ELEMENT REACTIONS. 25-120

NUCLEAR MATTER THEORY FOR PION SCATTERING FROM NUCLEI. 25-144

PERTURBATION THEORY OF EFFECTIVE HAMILTONIANS. 25-158

RELATIVISTIC HYDRODYNAMIC THEORY OF HEAVY ION COLLISIONS 25-195

THEORY OF THE SCATTERING OF PIONS BY NUCLEAR MATTER. 25-219

FOLDED DIAGRAM THEORY, TIME DEPENDENT APPROACH OF JOHNSON AND BARANGER. 25-81

GAUGE THEORY AT FINITE TEMPERATURE OF SU(3) SYMMETRY BREAKING AND QUARK MASSES. 25-87

PLANAR CHANNELING THEORY. QUANTUM AND CLASSICAL. 27-13

REDUCTION OF SINGULAR COLLISION INTEGRALS IN PERTURBATION THEORY 27-14

TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY. JANUARY 1 - MARCH 31, 1975. 27-19

TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, JANUARY 1 - MARCH 31, 1975. 27-19

QUARTERLY REPORT TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, OCTOBER 1 THROUGH DECEMBER 31, 1974. 28-35

TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY. APRIL 1 - JUNE 30, 1975. 28-38

TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY. JULY 1 - SEPTEMBER 30, 1975. 28-39

THEORY OF IMPLOSION. 30-89

THERAPEUTIC
BIOMEDICAL PROGRAM LEADING TO THERAPEUTIC TRIALS OF PION RADIATION THERAPY AT LOS ALAMOS. 5-16

CHARACTERISTICS OF A NEGATIVE PION BEAM IN A THERAPEUTIC APPLICATION. 5-38

THERAPY
SURVIVAL OF CULTURED MAMMALIAN CELLS IRRADIATED AT VARIOUS DEPTHS IN THE LAMPF NEGATIVE PION THERAPY BEAM. 5-139

BIOMEDICAL PROGRAM LEADING TO THERAPEUTIC TRIALS OF PION RADIATION THERAPY AT LOS ALAMOS. 5-16

MESON RADIOBIOLOGY AND THERAPY. 5-99

THERMAL
ON THE THERMAL RATE COEFFICIENT AND ACTIVATION ENERGY OF THE IODINE + IODINE(2) ATOM EXCHANGE REACTION. 6-12

PARADOX: THE THERMAL RATE COEFFICIENT FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION. 6-13

PHONON THERMAL CONDUCTIVITY OF SUPERCONDUCTING LEAD - THALLIUM ALLOYS. 8-35

ANOMALOUS THERMAL PROPERTY BEHAVIOUR OF URANIUM AT LOW TEMPERATURES. 8-4

THERMAL BEHAVIOR OF ORDERED LIQUID HELIUM -3. 8-54

THERMAL CONDUCTION ALONG STRAIGHT THETA PINCHES AND PLASMA COLUMNS. 10-145

NUMERICAL STUDIES OF THE THERMAL EVOLUTION OF INTRUSIONS IN RELATIONSHIP TO OBSERVED TEMPERATURES IN GT-2. 11-34

VISCOUS MELT FLOW AND THERMAL ENERGY TRANSFER FOR A ROCK MELTING PENETRATOR: LITHOTHERMODYNAMICS. 11-61

GRAVITY ASSIST HEAT PIPES FOR THERMAL CONTROL SYSTEMS. 13-7

HIGH TEMPERATURE VACUUM THERMAL STABILITY TESTS OF EXPLOSIVES. 15-13

INFLUENCE OF METALS ON THE THERMAL DECOMPOSITION OF S-TRIAMINOTRINITROBENZENE (TATB). 15-15

INDEPENDENT FISSION YIELDS OF RUBIDIUM AND CESIUM FROM THERMAL NEUTRON INDUCED FISSION OF PLUTONIUM 239. 16-6

TWO DIMENSIONAL EFFECTS ON THERMAL OUTPUT. 18-53

TEMPERATURE DEPENDENT ORDINARY AND THERMAL DIFFUSION OF TRITIUM THROUGH METAL BARRIERS 20-151

INDICATIONS OF STRONGLY FLUX LIMITED ELECTRON THERMAL CONDUCTION IN LASER TARGET EXPERIMENTS. 20-55

OPTION: A COMPUTER CODE TO SOLVE STEADY STATE FLUID THERMAL ENGINEERING PROBLEMS. 21-62

IMPROVEMENT IN OXIDATION RESISTANCE OF THE LEADING EDGE THERMAL PROTECTION FOR A SPACE SHUTTLE. 23-30

LOW TEMPERATURE THERMAL AND ELECTRICAL PROPERTIES OF CHEMICAL VAPOR DEPOSITED NIOBIUM3GERMANIUM 21-34

THERAL AND OTHER PROPERTIES OF REFRACTORIES TECHNICAL REPORT PROGRAM NO R056. 23-58

NEUTRON ENERGY AND VELOCITY DISTRIBUTIONS FROM THERMAL DEUTERIUM TRITIUM REACTIONS 25-129

THERMAL NEUTRON CAPTURE AND ABSORPTION CROSS SECTIONS FOR NICKEL 59 25-220

CRYOGENIC THERMAL EXPANSION OF Y 12 GRAPHITE FUEL ELEMENTS 30-16

THERMAL AND FLOW PERFORMANCE ANALYSIS OF THE KIWI-B 4E REACTOR 30-90

THERMALLY
SYMMETRY AND STABILITY STUDIES OF THERMALLY GENERATED MAGNETIC FIELDS IN LASER PRODUCED PLASMAS 20-147

THERMOCHEMICAL
FUNDAMENTAL ASPECTS OF SYSTEMS FOR THE THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER. 7-8

THERMOCHEMISTRY
THERMOCHEMISTRY OF EXPLOSIVES 15-27

THERMOCOUPLE
STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR FOUR MONTH PERIOD ENDING JULY 20, 1962. 30-86

THERMODYNAMIC
STATISTICAL THERMODYNAMIC PROPERTIES OF HEXAFLUORIDE MOLECULES. 4-64

THERMODYNAMIC PROPERTIES OF THE BINAPY LAVES PHASE COMPOUNDS OF PLUTONIUM WITH THE GROUP VIIIA METALS. 7-23

THERMODYNAMIC PROPERTIES OF FLUIDS BELOW 20 DEGREES KELVIN 8-55

SELF INTERACTING, BOSON, QUANTUM, FIELD THEORY AND THE THERMODYNAMIC LIMIT IN D DIMENSIONS. 21-72

THERMODYNAMIC PROPERTIES OF PLUTONIUM HEXAFLUORIDE. A PRELIMINARY REPORT 23-59

THERMODYNAMICS
ENTROPY CORRELATION FOR THE 4F AND 5F METALS RELATION OF ELECTRONIC PROPERTIES TO METALLIC RADII, MAGNETIC TRANSFORMATIONS AND THERMODYNAMICS OF VAPORIZATION. 4-21

NETWORK THERMODYNAMICS: AN OVERVIEW 5-105

ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON PART I. PHASE BOUNDARY, THERMODYNAMICS AND LATTICE PARAMETER. 9-1

THERMOGRAVIMETRY
OXYGEN POTENTIAL OF URANIUM - PLUTONIUM OXIDE AS DETERMINED BY CONTROLLED ATMOSPHERE THERMOGRAVIMETRY. 2-19

THERMOLUMINESCENCE
DECAY CHARACTERISTICS OF SOIL THERMOLUMINESCENCE. 11-11

THERMONUCLEAR
PRESSURE PROFILES IN A THERMONUCLEAR PLASMA SHEATH CONTAINING ENERGETIC ALPHA PARTICLES. 10-106

CONTROLLED THERMONUCLEAR RESEARCH AT THE LOS ALAMOS SCIENTIFIC LABORATORY 10-12

SYMBOLIC COMPUTATION IN CONTROLLED THERMONUCLEAR RESEARCH. 10-142

THERMONUCLEAR FUSION. 10-146

XPECT: A MONTE CARLO PROGRAM TO PREDICT THE EXPECTED TIME TO NEXT FAILURE IN CONTROLLED THERMONUCLEAR RESEARCH SYSTEMS. 10-156

HEAT TRANSFER MODEL FOR COMPOSITE FIRST WALL MATERIALS IN A PULSED HIGH BETA CONTROLLED THERMONUCLEAR REACTOR (CTR). 10-46

CAPACITOR REQUIREMENTS FOR CONTROLLED THERMONUCLEAR EXPERIMENTS AND REACTORS. 10-5

CHARGED PARTICLE MASS AND ENERGY DEPOSITION IN A THERMONUCLEAR PLASMA. 10-7

LASL CONTROLLED THERMONUCLEAR RESEARCH PROGRAM, JANUARY - DECEMBER 1974. 10-70

TAMPED THERMONUCLEAR BURN OF DEUTERIUM -TRITIUM MICROSPHERES. 20-149

LASER DRIVEN IMPLOSION OF SPHERICAL DEUTERIUM - TRITIUM TARGETS TO THERMONUCLEAR BURN CONDITIONS. 20-68

LASER FUSION: A NEW THERMONUCLEAR POWER CONCEPT. 20-73

THETA
ANALYSIS OF VUV EMISSION IN A THETA PINCH SEEDED WITH NEON AND IRON. 4-1

PLASMA EXPERIMENTS IN THE SCYLLAC TOROIDAL THETA PINCH 10-100

PLASMA EXPERIMENTS ON THE HIGH DENSITY SCYLLA I C THETA PINCH 10-101

PROSPECTS FOR CONVERTING THORIUM -232 TO URANIUM -233 IN A LINEAR THETA PINCH HYBRID REACTOR (LTPHR) 10-109

RADIAL PLASMA STRUCTURE DURING A THETA PINCH IMPLOSION FLUTE INSTABILITIES. 10-110

RADIOACTIVITY INDUCED IN A THETA PINCH FUSION REACTOR 10-111

REVIEW OF TOROIDAL THETA PINCH THEORY 10-115

SCYLLA IV-P LINEAR THETA PINCH 10-117

SHIELDING AND ACTIVATION OF A THETA PINCH FUSION TEST REACTOR (TPFTR) 10-124

STAGED THETA PINCH EXPERIMENT 10-137

STAGED THETA PINCH EXPERIMENTS 10-138

STAGED THETA PINCH EXPERIMENTS 10-139

STRUCTURAL ENDURANCE CONSTRAINTS FOR HIGH FIELD THETA PINCH COILS COILS 10-140

THERMAL CONDUCTION ALONG STRAIGHT THETA PINCHES AND PLASMA COLUMNS 10-145

THETA PINCH FUSION TEST REACTOR 10-147

THETA PINCH TOROIDAL REACTOR 10-148

CTR APPLICATIONS OF THE HIGH DENSITY LINEAR THETA PINCH. 10-15

ENDLOSS FROM A LINEAR THETA PINCH 10-27

ASPECTS OF THETA PINCH POWER PLANT DEVELOPMENT. 10-3

ENERGY STORAGE, COMPRESSION, AND SWITCHING IN A THETA PINCH FUSION TEST REACTOR. 10-30

ENGINEERING DESIGN OF A LINEAR THETA PINCH HYBRID REACTOR (LTPHR) 10-31

ENVIRONMENTAL AND TECHNOLOGICAL IMPLICATIONS OF A THETA PINCH FUSION POWER PLANT. 10-33

EXPERIMENTAL STUDY OF PLASMA END LOSS FROM A LINEAR THETA PINCH. 10-36

FLUTE INSTABILITIES IN TWO DIMENSIONAL SIMULATIONS OF STRONGLY INHOMOGENEOUS THETA PINCH PLASMAS. 10-40

HYBRID SIMULATION OF SCREW PINCH IMPLOSIONS WITH IMPURITIES AND OF THETA PINCH IMPLOSIONS RESULTING IN REFLECTED ION BEAMS. 10-53

IMPLOSION AND STAGING IN THETA PINCHES. 10-55

IMPLOSION HEATING STUDIES IN THE SCYLLA 1B, IMPLOSION HEATING, AND STAGED THETA PINCH EXPERIMENTS. 10-56

IMPLOSION MEASUREMENTS IN A HIGH VOLTAGE, LARGE DIAMETER, MEDIUM DENSITY THETA PINCH. 10-57

CHARACTERISTICS OF HIGH DENSITY THETA PINCHES SEEDED WITH SELECTED HIGH Z ELEMENTS. 10-6

INITIAL LASER PLASMA INTERACTION EXPERIMENTS IN THE SCYLLA I-C THETA PINCH. 10-60

ION STAGE BUILDUP IN A THETA PINCH SEEDED WITH IRON. 10-64

KINETIC NONLOCAL ANALYSIS OF CROSS FIELD INSTABILITIES IN THETA PINCH PLASMAS. 10-67

LASER PLASMA INTERACTION IN THE SCYLLA I-C THETA PINCH. 10-69

LINEAR THETA PINCH AS A 14 NEUTRON SOURCE. 10-72

LINEAR THETA PINCH FERF. 10-73

LINEAR THETA PINCH NEUTRON SOURCE. 10-74

LTPF: A LINEAR THETA PINCH NEUTRON SOURCE. 10-75

MAGNETIC FIELD AND PLASMA DENSITY MEASUREMENTS IN THE STAGED THETA PINCH EXPERIMENT. 10-77

NONLOCAL ANALYSIS OF CROSS FIELD INSTABILITIES IN THETA PINCHES. 10-85

NUCLEONIC DESIGN SENSITIVITY ANALYSIS FOR THE REFERENCE THETA PINCH REACTOR (RTPR). 10-86

NUMERICAL STUDIES OF THE LINEAR THETA PINCH. 10-90

CONCEPTUAL DESIGN OF A THETA PINCH POWER PLANT 19-2

CONDITION FOR A VANISHING CROSS SECTION AT THETA = PI/2 IN BARSHAY-TEMMER REACTIONS. 25-35

THIN
THIN WINDOWS FOR GASEOUS AND LIQUID TARGETS: AN OPTIMIZATION PROCEDURE 8-56

FUSION WELDING OF THIN METAL FOILS. 13-5

FABRICATION AND CALIBRATION OF THIN PLASTIC SCINTILLATOR X RAY DETECTORS. 19-7

THIN FILM DETECTOR SYSTEM FOR LASER -FUSION STUDIES. 20-154

THINNING
INVESTIGATION OF SUBSTORM RELATED PLASMA SHEET THINNING WITH IMP-8 1-15

COMPLETE PLASMA DROPOUTS AT VELA SATELLITES DURING THINNING OF THE PLASMA SHEET. 1-2

DISTRIBUTION OF PLASMA SHEET THINNING AND RECOVERY EVENTS IN THE MAGNETOTAIL SURVEYED BY THE IMP-6 SATELLITE. 1-3

INTRINSIC DISSIPATION AND THINNING IN FILM FLOW. 8-19

THIRD
LASL PANEL ON TACTICAL NUCLEAR WARFARE. REPORT OF THE THIRD MEETING. MAY 14-15. 1974. 30-39

THOMAS
SPECIAL REPORT PRESENTED AT JULY MEETING WITH C. A. THOMAS ON FINAL PURIFICATION AND METALLURGY OF 49. 23-53

SPECIAL REPORT PRESENTED AT MAY MEETING WITH C. A. THOMAS ON FINAL PURIFICATION AND METALLURGY OF 49. 23-54

THOMAS-FERMI
RELATIVISTIC EFFECTS IN THE THOMAS-FERMI ATOM. 4-55

THOMSON
DIGITAL TELEVISION CAMERA FOR A THOMSON SCATTERING DETECTOR. 10-21

THORIUM
PROSPECTS FOR CONVERTING THORIUM -232 TO URANIUM -233 IN A LINEAR THETA PINCH HYBRID REACTOR (LTPHR). 10-109

MONOCHROMATIC PHOTON INDUCED THORIUM -232 PHOTONUCLEAR REACTIONS. 16-9

THREONINE
CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES. 5-24

CELL CYCLE DEPENDENT PHOSPHORYLATION OF SERINE AND THREONINE IN CHINESE HAMSTER CELL F1 HISTONES. 5-25

THRESHOLD
THRESHOLD OF PION CONDENSATION. 25-222

THRESHOLDS
DAMAGE THRESHOLDS IN ZINC SELENIDE, A/R COATED SODIUM CHLORIDE AND MICROMACHINED MIRRORS BY 10.6 MICRON MULTIJOULE, NANOSECOND PULSES. 20-21

TICKLISH
HADRONIC ATOMS AND TICKLISH NUCLEI: THE E2 NUCLEAR RESONANCE EFFECT 25-68

HADRONIC ATOMS AND TICKLISH NUCLEI: THE E2 NUCLEAR RESONANCE EFFECT. 25-89

TIME
L = 6.7 QUIET TIME BARIUM SHAPED CHARGE INJECTION EXPERIMENT CHACHALACA. 1-17

STUDY OF FAST TIME STRUCTURE WITHIN COSMIC GAMMA RAY BURSTS. 3-42

TIME DEPENDENT SOLUTION TO INTERSTITIAL DIFFUSION IN A TEMPERATURE GRADIENT. 7-24

LIMITING FLUX PASSAGE TIME IN NARROW SUPERCONDUCTORS. 8-25

TIME DEPENDENT CALCULATIONS OF EQUILIBRIUM AND STABILITY PROBLEMS IN SCYLLAC AND TOKAMAK GEOMETRIES. 10-149

XPECT: A MONTE CARLO PROGRAM TO PREDICT THE EXPECTED TIME TO NEXT FAILURE IN CONTROLLED THERMONUCLEAR RESEARCH SYSTEMS. 10-156

FRACTIONAL FRINGE TIME DIFFERENTIAL HOLOGRAPHIC INTERFEROMETRY. 10-41

TIME DEPENDENT DETONATIONS. 15-28

LATE TIME PHENOMENOLOGY PREDICTIONS WITH AN ALMOST LAGRANGIAN CODE. 18-22

TIME DEPENDENT TURBULENT MIXING. 18-51

TIME DEPENDENCE OF ROTATIONAL TEMPERATURE IN A HIGH PRESSURE PULSED CARBON DIOXIDE LASER. 20-155

TIME RESOLVED OUTPUT SPECTRUM FROM A HYDROGEN FLUORIDE LASER USING MIXTURES OF SULFUR HEXAFLUORIDE AND HYDROGEN IODIDE. 20-156

BAYESIAN RELIABILITY ESTIMATION: STATE OF THE ART FOR THE TIME DEPENDENT CASE. 21-10

ANALYSIS OF SOME GALERKIN SCHEMES FOR THE SOLUTION OF NONLINEAR TIME DEPENDENT PROBLEMS. 21-6

LINEAR DISCONTINUOUS FINITE ELEMENT SCHEME IN TIME DEPENDENT TRANSPORT CALCULATIONS 24-13

TIME OF FLIGHT NEUTRON SPECTROSCOPY USING APPROXIMATELY 20 METER FLIGHT PATHS TO A NUCLEAR DEVICE. 25-223

TIME ORDERING OF HIGH ENERGY MULTIPARTICLE PRODUCTION 25-224

FOLDED DIAGRAM THEORY, TIME DEPENDENT APPROACH OF JOHNSON AND BARANGER. 25-81

TIME DEPENDENT BEHAVIOR IN ELECTRON HOLE CONDENSATION. 27-18

FREE SPACE BOUNDARY CONDITIONS FOR THE TIME DEPENDENT WAVE EQUATION. 27-7

JULY 16TH NUCLEAR EXPLOSION SPACE - TIME RELATIONSHIPS. 30-34

TIME DENSITY STUDY OF WATER IN KIWI-B4 FUEL ELEMENTS WITH VARYING IMPACT VELOCITIES. 30-91

TIMES
EFFECTS OF TURBULENCE ON LOW ALTITUDE FIREBALLS AT LATE TIMES. 18-12

TIN
NEUTRON IRRADIATION OF NIOBIUM(3)TIN AND NIOBIUM - TITANIUM MULTIFILAMENTARY COMPOSITES. 8-30

NEUTRON IRRADIATION OF NIOBIUM(3)TIN AND NIOBIUM - TITANIUM MULTIFILAMENTARY COMPOSITES. 8-31

TEMPERATURE AND CURRENT DEPENDENCE OF THE MAGNETIC FIELD PROFILES OF NIOBIUM(3)TIN TAPES CARRYING A CURRENT. 8-52

EFFECTS OF NEUTRON IRRADIATION ON CRITICAL CURRENT OF NIOBIUM(3)TIN AT HIGH FIELD. 23-15

EFFECTS OF REACTOR NEUTRON, 14 MEV NEUTRON AND ENERGETIC CHARGED PARTICLE IRRADIATIONS ON THE CRITICAL CURRENT IN NIOBIUM(3)TIN. 23-16

TISSUE
PLUTONIUM AND OTHER ACTINIDE ELEMENTS IN GONADAL TISSUE OF MAN AND ANIMALS. 5-114

URANIUM IN THE TISSUE OF OCCUPATIONALLY EXPOSED WORKERS. 5-145

USE OF MESONS FOR TISSUE CHEMICAL ANALYSIS. 5-146

CESIUM -134 IN HUMAN AUTOPSY TISSUE. 5-32

IN VIVO TISSUE ANALYSIS USING MU MESIC X RAYS. 5-79

USE OF MUONIC X RAYS FOR TISSUE ANALYSIS. 22-54

TITANIUM
NEUTRON IRRADIATION OF NIOBIUM(3)TIN AND NIOBIUM - TITANIUM MULTIFILAMENTARY COMPOSITES. 8-30

NEUTRON IRRADIATION OF NIOBIUM(3)TIN AND NIOBIUM - TITANIUM MULTIFILAMENTARY COMPOSITES. 8-31

EVIDENCE FOR THE EXISTENCE OF FAULTING IN A SPLAT COOLED DELTA PLUTONIUM(TITANIUM) ALLOY. 9-10

DUCTILE TO BRITTLE TRANSITION OF URANIUM - 0.75 WT PERCENT TITANIUM PENETRATOR CORES. 23-10

TLD
ENERGY RESPONSE OF TLD BADGES LOCATED ON PERSONNEL. 17-19

TODAY'S
NONDESTRUCTIVE ASSAY PHYSICAL STANDARDS AND TODAY'S SAFEGUARDS REQUIREMENTS. 26-14

TOKAMAK
TIME DEPENDENT CALCULATIONS OF EQUILIBRIUM AND STABILITY PROBLEMS IN SCYLLAC AND TOKAMAK GEOMETRIES. 10-149

APPLICATION OF SENSITIVITY ANALYSIS TO A QUANTITATIVE ASSESSMENT OF NEUTRON CROSS SECTION REQUIREMENTS FOR THE TFTR (TOKAMAK FUSION TEST REACTOR): AN INTERIM REPORT. 10-2

EFFECT OF LARGE POLOIDAL BETA ON TOKAMAK TRANSPORT. 10-24

MAGNETOHYDRODYNAMIC STABILITY OF A SHARP BOUNDARY MODEL OF TOKAMAK. 10-78

MHD SPECTRUM OF DIFFUSE TOKAMAK EQUILIBRIA. 10-80

TOKAMAKS
STABILITY OF KINK MODES IN HIGH BETA TOKAMAKS 10-134

STABILITY OF KINK MODES IN HIGH BETA TOKAMAKS 10-135

EQUILIBRIUM AND STABILITY OF HIGH BETA DIFFUSE TOKAMAKS. 10-34

TOKYO
CONTROLLED FUSION RESEARCH HIGHLIGHTS OF THE TOKYO IAEA CONFERENCE AND SUBSEQUENT DEVELOPMENTS. 10-11

TOP
STATISTICAL WEIGHTS FOR OCTAHEDRAL SPHERICAL TOP MOLECULES 4-65

FURTHER CONSIDERATIONS ON THE LOF-DRIVEN TOP ACCIDENT FOR LMFBRS 28-15

TOPICAL
PRELIMINARY TOPICAL REPORT ON COMPARISON REACTOR DISASSEMBLY CALCULATIONS 28-29

TORNADO
VENTILATION SYSTEMS ANALYSIS DURING TORNADO CONDITIONS, JANUARY - JUNE 1975. 13-19

VENTILATION SYSTEMS ANALYSIS DURING TORNADO CONDITIONS, JULY THROUGH DECEMBER 1974 13-20

TOROIDAL
PLASMA EXPERIMENTS IN THE SCYLLAC TOROIDAL THETA PINCH. 10-100

REVIEW OF TOROIDAL THETA PINCH THEORY 10-115

SPECTRUM OF IDEAL MAGNETOHYDRODYNAMICS OF AXISYMMETRIC TOROIDAL SYSTEMS 10-127

THETA PINCH TOROIDAL REACTOR. 10-148

TOROIDAL MODE STRUCTURE IN THE SCYLLAC FULL TORUS. 10-150

DESIGN OF THE ZT-1 TOROIDAL PINCH EXPERIMENT. 10-18

TORUS
TOROIDAL MODE STRUCTURE IN THE SCYLLAC FULL TORUS. 10-150

TOTAL
ABSOLUTE INTENSITIES OF THE OUTER CORONA FROM THE JUNE 30, 1973 TOTAL SOLAR ECLIPSE. 3-1

CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES 1. AIRBORNE INSTRUMENTATION AND RESULTS. 3-10

CORONAL EMISSION LINE PROFILE OBSERVATIONS AT TOTAL SOLAR ECLIPSES. 2. 30 MAY 1965 RESULTS, DECONVOLUTION AND INTERPRETATION. 3-11

CRITICAL BOREHOLE PRESSURE FOR A VERTICAL HYDRAULIC CRACK IN THE PRESENCE OF TWO PRINCIPAL TOTAL STRESSES. 11-9

PI (PLUS AND MINUS) - HELIUM -4 TOTAL CROSS SECTIONS FROM 50-100 MEV. 25-166

TOTAL NEUTRON CROSS SECTIONS OF HELIUM -3, HELIUM -4, LITHIUM -6, LITHIUM -7 IN THE MEV RANGE. 25-225

DEPENDENCE OF THE OFF ENERGY SHELL T MATRIX ON THE TOTAL THREE MOMENTUM. 25-45

DEUTERON - DEUTERON TOTAL SCATTERING CROSS SECTIONS IN THE VELOCITY RANGE 950-2250 M/SEC. 25-47

TOTAL PLUTONIUM AND URANIUM DETERMINATION BY GAMMA RAY DENSITOMETRY. 26-28

FITPI: MODIFICATIONS TO THE OPTICAL MODEL PROGRAM PIRK FOR PARAMETER SEARCHES AND TOTAL CROSS SECTIONS. 29-3

TOWER
SILICA IN WATER IN RELATION TO COOLING TOWER OPERATION. 2-26

COOLING TOWER MODIFICATION FOR INTERMITTENT OPERATION. 13-2

TPFTR
SHIELDING AND ACTIVATION OF A THETA PINCH FUSION TEST REACTOR (TPFTR) 10-124

TRA
DOUBLE MODE CEPHEIDS AND U TRA. 3-14

TRACER
PLUTONIUM -242 VS PLUTONIUM -236 AS AN ANALYTICAL TRACER. 17-41

USE OF URANIUM -237 TRACER IN MONITORING PLUTONIUM SCRAP RECOVERY OPERATIONS. 23-62

TRACERS
HEAVY METHANES AS ATMOSPHERIC TRACERS. 1-13

PROBLEMS AND POTENTIALITIES OF STABLE ISOTOPES AS TRACERS FOR STUDYING POLLUTANT BEHAVIOR UNDER FIELD CONDITIONS. 7-13

TRACES
SINUOSITY OF STRIKE - SLIP FAULT TRACES. 11-52

TRACKING
ELECTRICAL BREAKDOWN AND TRACKING CHARACTERISTICS OF PULSED HIGH VOLTAGES IN CRYOGENIC HELIUM AND NITROGEN 8-15

TRAJECTORY
QUASICLASSICAL TRAJECTORY STUDY OF THE HYDROGEN(2) + FLUORINE(2) REACTIONS 5-11

QUASICLASSICAL TRAJECTORY STUDY OF THE MOLECULAR BEAM KINETICS OF THE DEUTERIUM ATOM - HYDROGEN HALIDE EXCHANGE REACTION. 6-15

COMPARISON OF THE COMBINED PHASE SPACE TRAJECTORY AND QUASICLASSICAL TRAJECTORY METHODS IN THE STUDY OF REACTION DYANMICS: HYDROGEN + IODINE(2) AND HYDROGEN + BROMINE(2) 6-4

FAST MOLECULAR TRAJECTORY CALCULATIONS BY HYBRID COMPUTATION: A FEASIBILITY STUDY. 6-8

TRANSDUCER
TRANSDUCER TECHNOLOGY FOR DEEP BOREHOLE GEOTHERMAL ENVIRONMENTS. 11-59

TRANSFER
NON-LINEAR RADIATIVE TRANSFER MODEL OF SW ANDROMADAE. 3-29

THEORETICAL COLORS FOR CEPHEIDS WITH TRANSFER EFFECTS NOW EVIDENT IN THEIR LIGHT CURVES 3-45

ELECTRON TRANSFER IN COLLISIONS BETWEEN ATOMIC IONS AND RARE GAS ATOMS. 4-17

ASSOCIATIVE IONIZATION AND EXCITATION TRANSFER IN HELIUM. 4-2

COLLISIONS OF NEON*(3S) AND NEON(+) WITH NEON, EXCITATION AND CHARGE TRANSFER, ELASTIC SCATTERING, AND DIFFUSION. 4-9

TRANSFER OF MOUSE IGG2 PRODUCTION BY IGM BEARING SPLEEN CELLS SEPARATED BY A FLUORESCENCE ACTIVATED CELL SORTER. 5-141

ENERGY TRANSFER IN PHOTOSYNTHESIS: PIGMENT CONCENTRATION EFFECTS AND FLUORESCENT LIFETIMES. 5-58

EXCITON TRANSFER IN DNA. 5-63

10 KA, 300 KJ MAGNETIC ENERGY TRANSFER AND STORAGE (METS) TEST FACILITY. 8-1

FORCED CONVECTION HEAT TRANSFER WITH TWO PHASE FLOW. 8-18

POOL BOILING HEAT TRANSFER TO LIQUID HELIUM AND LIQUID NITROGEN IN A NEARLY ZERO GRAVITY ENVIRONMENT. 8-36

PROPOSED METS (MAGNETIC ENERGY TRANSFER AND STORAGE) - FTR (FUSION TEST REACTOR) COUPLED SUPERCONDUCTING PROTOTYPE SYSTEM. 8-40

REVERSIBLE ENERGY TRANSFER BETWEEN INDUCTANCES. 8-41

HEAT TRANSFER MODEL FOR COMPOSITE FIRST WALL MATERIALS IN A PULSED HIGH BETA CONTROLLED THERMONUCLEAR REACTOR (CTR). 10-46

VISCOUS MELT FLOW AND THERMAL ENERGY TRANSFER FOR A ROCK MELTING PENETRATOR: LITHOTHERMODYNAMICS. 11-61

TRANSFER TECHNIQUE FOR ELECTRON MICROSCOPY OF MEMBRANE FILTER SAMPLES. 17-60

RADIATIVE TRANSFER APPROXIMATIONS IN FIREBALL MODELING. 18-38

ENGINEERING APPLICATIONS OF ADI (ALTERNATING - DIRECT - IMPLICIT) METHODS TO PIECEWISE LINEAR MULTIDIMENSIONAL HEAT TRANSFER. 21-31

USE OF A GENERAL PURPOSE HEAT TRANSFER CODE FOR CASTING SIMULATION. 23-60

ANGULAR DISTRIBUTION OF POLARIZATION TRANSFER IN HYDROGEN -2(DEUTERON,PROTON) HYDROGEN -3. 25-10

SELF SHIELDING OF ELASTIC TRANSFER MATRICES. 25-202

NUCLEAR PROPULSION TECHNOLOGY TRANSFER TO ENERGY SYSTEMS. 30-51

TRANSFORM
CARBON -13 FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE STUDIES OF FRACTIONATED CANDIDA UTILIS MEMBRANES. 5-17

FOURIER TRANSFORM CARBON -13 MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 2. LIGAND SUBSTITUTION PROCESSES. 7-7

CARBON -13 PARTIALLY RELAXED FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF ORGANOCOBRINOIDS, SELECTIVELY ENRICHED WITH CARBON -13. 14-5

FOURIER TRANSFORM CARBON -13 NUCLEAR MAGNETIC RESONANCE OF AQUEOUS NICKEL(II) - ACETIC ACID SOLUTIONS. 1. EQUILIBRIUM QUOTIENTS FROM RELATIVE ABUNDANCES OF SOLUTION SPECIES. 14-7

BELL TRANSFORM. 21-11

TRANSFORMATION
PENTAERYTHRITOL TETRANITRATE II. ITS CRYSTAL STRUCTURE AND TRANSFORMATION TO PETN I: AN ALGORITHM FOR REFINEMENT OF CRYSTAL STRUCTURES WITH POOR DATA. 9-17

TRANSFORMATIONS
ENTROPY CORRELATION FOR THE 4F AND 5F METALS: RELATION OF ELECTRONIC PROPERTIES TO METALLIC RADII, MAGNETIC TRANSFORMATIONS AND THERMODYNAMICS OF VAPORIZATION 4-21

POINCARE GENERATORS AND FW TRANSFORMATIONS FOR BHABHA FIRST ORDER FIELDS. 25-174

RELATIVISTIC ROTATION OF AXES UNDER SUCCESSIVE LORENTZ TRANSFORMATIONS. 27-15

TRANSFORMS
EFFECT OF SHORT RANGED UNITARY TRANSFORMS ON THE RATE OF THE REACTION NEGATIVE PION PLUS DEUTERON GOES TO GAMMA RAY PLUS TWO NEUTRONS. 25-52

TRANSIENT
DRIFT COMPENSATING INTEGRATOR FOR MEASUREMENT OF TRANSIENT ATOMIC ABSORPTION SIGNALS. 2-13

TRANSIENT CHARGE EXCHANGE EFFECTS IN A NEUTRAL GAS LAYER. 10-151

TRANSIENT FLOW AND EXPANSION OF A PINCH DISCHARGE PLASMA IN SELF INDUCED MAGNETIC FIELDS. 10-152

CAVITY STABILITY: FINITE ELEMENT ANALYSIS FOR STEADY AND TRANSIENT CREEP. 11-5

SOLA: A NUMERICAL SOLUTION ALGORITHM FOR TRANSIENT FLUID FLOWS. 18-47

TRANSIENT DYNAMICS OF CHEMICALLY REACTIVE GASEOUS MIXTURES WITH TURBULENCE. 18-52

DIRECT EVALUATION OF TRANSIENT SURFACE TEMPERATURES AND HEAT FLUXES. 20-25

REMOTE TRANSIENT DATA ACQUISITION SYSTEM. 21-69

SURVEY OF THE STATE OF THE ART OF FAST SINGLE TRANSIENT ANALOG TO DIGITAL CONVERTER TECHNIQUES. 21-78

KIWI TRANSIENT NUCLEAR TEST. 30-36

TRANSITION
OSCILLATOR STRENGTHS FROM LINE ABSORPTION IN A HIGH TEMPERATURE FURNACE. 2. THE (0,0) BAND OF THE B(2)SIGMA(+) -X(2)SIGMA (+) TRANSITION IN CYANOGEN. 4-48

REDUCTIVE SYNTHESES OF TRANSITION METAL FLUORIDE COMPOUNDS. THE SYNTHESIS OF RHENIUM, OSMIUM AND IRIDIUM PENTAFLUORIDES AND TETRAFLUORIDES. 7-16

ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 2. SUPERCONDUCTING TRANSITION TEMPERATURE. 9-2

LASER PHASE TRANSITION ANALOGY: APPLICATION TO FIRST ORDER TRANSITIONS. 20-79

DUCTILE TO BRITTLE TRANSITION OF URANIUM - 0.75 WT PERCENT TITANIUM PENETRATOR CORES. 23-10

MUONIC X RAYS FROM THE TRANSITION NUCLEI PLATINUM -194, 195, 196. 25-127

TRANSITIONS
URANIUM TRANSITIONS AND ENERGY LEVELS WHICH MAY BE USEFUL IN ATOMIC PHOTOIONIZATION SCHEMES FOR SEPARATING URANIUM 238 AND URANIUM -235. 2-28

IDENTIFICATION OF SOLAR FLARE IRON(XVIII) TO IRON(XXIII) EMISSION LINES FROM 2S(N)2P(K)-2S(N-1)2P(K+1) TRANSITIONS. 3-21

TRANSITIONS 2S(2)2P(K)-2S2P(K+1) OF THE FLUORINE(I), OXYGEN(I), AND NITROGEN(I) ISOELECTRONIC SEQUENCES. 4-66

TRANSITIONS 2S(2)2P(K)-2S2P(K+1) OF THE NITROGEN(I) AND CARBON(I) ISOELECTRONIC SEQUENCES. 4-67

NEUTRON DIFFRACTION STUDIES OF DEUTERIUM - SOLID STRUCTURES AND TRANSITIONS. 9-14

SHOCK WAVE TECHNIQUES FOR THE EXAMINATION OF PHASE TRANSITIONS. 18-44

LASER PHASE TRANSITION ANALOGY: APPLICATION TO FIRST ORDER TRANSITIONS. 20-79

EXCHANGE EFFECTS FROM WEAK RADIATIVE MESONIC TRANSITIONS IN PARITY VIOLATING NUCLEAR PROCESSES. 25-71

ONSET CRITERIA FOR INSULATING ELECTRONIC TRANSITIONS IN THREE DIMENSIONAL SYSTEMS 27-12

TRANSMISSION
ECONOMIC AND SYSTEM ASPECTS OF A SUPERCONDUCTING MAGNETIC ENERGY STORAGE DEVICE AND A DC SUPERCONDUCTING TRANSMISSION LINE 8-14

INVESTIGATIONS ON POTENTIAL CONDUCTORS FOR A DC SUPERCONDUCTING POWER TRANSMISSION LINE IN A 20 METER TEST BED. 8-21

PROGRESS REPORT. USERDA-DAT DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JULY 1 THROUGH SEPTEMBER 30, 1974. 8-38

SUPERCONDUCTING ELECTRIC POWER TRANSMISSION 8-44

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. APRIL 1 - JUNE 30, 1975. 8-58

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. JANUARY 1 - MARCH 31, 1975. 8-59

USERDA DIVISION OF ELECTRIC POWER TRANSMISSION AND DISTRIBUTION DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. OCTOBER 1 THROUGH DECEMBER 31, 1974. 8-60

REVIEW OF AVAILABLE TECHNOLOGY FOR NARROW BAND TRANSMISSION OF VISUAL MATERIAL. 13-15

HYBRID COMPUTER SIMULATION OF TRANSMISSION LINE CIRCUITS. 21-39

TRANSPORT
ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY. 10-1

POST-IMPLOSION ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY. 10-104

POST-IMPLOSION ANOMALOUS TRANSPORT PROPERTIES ASSOCIATED WITH THE LOWER HYBRID DRIFT INSTABILITY. 10-105

EFFECT OF LARGE POLOIDAL BETA ON TOKAMAK TRANSPORT. 10-24

INVARIANT COMPTON KERNELS FOR RADIATION TRANSPORT. 18-20

NUMERICAL METHODS FOR SOLUTION OF THE INTEGRAL EQUATIONS OF MULTI-DIMENSIONAL RADIATION TRANSPORT. 18-31

PARTICULATE TRANSPORT IN THREE DIMENSIONAL FLUID FLOWS THROUGH CURVED AND BIFURCATING VESSELS. 18-37

CLASSICAL TRANSPORT IN A MOVING FLUID. 18-4

YOKIFER: A TWO DIMENSIONAL HYDRODYNAMICS AND RADIATION TRANSPORT PROGRAM. 18-56

EFFECT OF THE AMBIPOLAR ELECTRIC FIELD ON THE TRANSPORT OF ENERGETIC ELECTRONS. 20-31

INVESTIGATION OF PATTERN RECOGNITION TECHNIQUES FOR THE IDENTIFICATION OF SPLITTING SURFACES IN MONTE CARLO PARTICLE TRANSPORT CALCULATIONS. 21-44

PARTICLE TRANSPORT SIMULATION WITH THE MONTE CARLO METHOD. 21-63

ANALYTIC TRANSPORT THEORY SOLUTIONS FOR STEADY SOURCES IN PURE ABSORBERS. 24-1

GENERALIZED DIFFUSION THEORY FOR CALCULATING THE NEUTRON TRANSPORT SCALAR FLUX. 24-12

LINEAR DISCONTINUOUS FINITE ELEMENT SCHEME IN TIME DEPENDENT TRANSPORT CALCULATIONS. 24-13

METHOD OF CHARACTERISTICS FOR THE TRANSPORT EQUATION SOLUTION. 24-15

NEUTRON AND GAMMA TRANSPORT CALCULATIONS FOR SPRINT. 24-16

ONETRAN: A DISCRETE ORDINATES FINITE ELEMENT CODE FOR THE SOLUTION OF THE ONE DIMENSIONAL MULTIGROUP TRANSPORT EQUATION. 24-17

U.S. THEORETICAL AND COMPUTATIONAL PROGRAM: TRANSPORT THEORY. 24-21

WALSH FUNCTION APPROXIMATION FOR NEUTRON TRANSPORT IN X-Y GEOMETRY. 24-22

COARSE MESH REBALANCE METHODS COMPATIBLE WITH THE SPHERICAL HARMONIC FICTITIOUS SOURCE IN NEUTRON TRANSPORT CALCULATIONS. 24-6

PION PRODUCTION FROM A CLASSICAL SOURCE: TRANSPORT AND HYDRODYNAMICAL PROPERTIES. 25-171

SELF SHIELDED CROSS SECTIONS FOR NEUTRON TRANSPORT IN IRON. 25-201

TRANSPORT AND HYDRODYNAMIC ASPECTS OF MULTIPARTICLE PRODUCTION. 25-226

TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, JANUARY 1 - MARCH 31, 1975. 27-19

QUARTERLY REPORT, TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, OCTOBER 1 THROUGH DECEMBER 31, 1974 28-35

TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, APRIL 1 - JUNE 30, 1975 28-38

TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, JULY 1 - SEPTEMBER 30, 1975 28-39

TRANSPORTATION
ALTERNATE FUELS FOR TRANSPORTATION. 2. HYDROGEN FOR THE AUTOMOBILE 12-1

TRANSURANIC
CHARACTERIZATION OF TRANSURANIC SOLID WASTES FROM A PLUTONIUM PROCESSING FACILITY. 30-11

DESIGN CRITERIA (REVISED) FOR TRANSURANIC CONTAMINATED SOLID WASTE TREATMENT DEVELOPMENT FACILITY. 30-18

MEASUREMENT OF TRANSURANIC SOLID WASTES AT THE 10-NCI/G ACTIVITY LEVEL. 30-46

MEASUREMENT OF TRANSURANIC SOLID WASTES AT THE 10-NCI/G ACTIVITY LEVEL 30-47

TRANSURANIC SOLID WASTE STUDIES AT LOS ALAMOS. 30-92

TRAP
DETERMINATION OF OXYGEN IN PLUTONIUM BY THE CAPILLARY TRAP METHOD 2-10

TREATMENT
MULTIPLE SCATTERING TREATMENT OF THE SOLVATED ELECTRON IN WATER. 4-41

DESIGN CRITERIA (REVISED) FOR TRANSURANIC CONTAMINATED SOLID WASTE TREATMENT DEVELOPMENT FACILITY. 30-18

TREATMENTS
EFFECTS OF SOLUTION AND INTERMEDIATE HEAT TREATMENTS ON THE NOTCH - RUPTURE BEHAVIOR OF INCONEL 718. 23-17

USE OF INTERMEDIATE HEAT TREATMENTS FOR THE RESTORATION OF THE NOTCH RUPTURE PROPERTIES OF INCONEL 718. 23-61

TRIALS
BIOMEDICAL PROGRAM LEADING TO THERAPEUTIC TRIALS OF PION RADIATION THERAPY AT LOS ALAMOS. 5-16

TRIAMINO
REFINEMENT OF THE CRYSTAL STRUCTURE OF MELAMINE, 2,4,6- TRIAMINO -S- TRIAZINE, USING GENERALIZED SCATTERING FACTORS AT THE OCTUPOLE LEVEL. 9-21

TRIAZINE
REFINEMENT OF THE CRYSTAL STRUCTURE OF MELAMINE, 2,4,6- TRIAMINO -S- TRIAZINE, USING GENERALIZED SCATTERING FACTORS AT THE OCTUPOLE LEVEL. 9-21

TRICHINELLA
PHYSICAL METHODS FOR RAPID ON-LINE DETECTION OF TRICHINELLA IN PORK 5-112

EVALUATION OF SOLUBLE ANTIGEN FLUORESCENT ANTIBODY TEST FOR ANTIBODIES TO TRICHINELLA SPIRALIS IN EXPERIMENTALLY INFECTED SWINE. 5-61

TRICHINELLAE
METHOD FOR DETECTION OF TRICHINELLAE. 5-100

RAPID DIGESTION PROCESS FOR DETERMINATION OF TRICHINELLAE IN MEAT. 5-122

TRICHLORIDE
LASER INDUCED CHEMILU METHODS FOR RAPID ON-LINE DETECTION OF TRICHINELLA IN PORK. 5-112

TRIDIAGONAL
GAUSSIAN ELIMINATION FOR DENSE SYSTEMS ON STAR AND A NEW PARALLEL ALGORITHM FOR DIAGONALLY DOMINANT TRIDIAGONAL SYSTEMS. 21-36

TRINUCLEON
CHARGE ASYMMETRY EFFECTS AND THE TRINUCLEON BINDING ENERGY. 2. INCLUSION OF THE TENSOR FORCE AND SINGLET REPULSION. 25-27

TRIPHOSPHATE
LACK OF SPECIFIC CORRELATION OF THE DEOXYCYTIDINE TRIPHOSPHATE POOL LEVEL WITH RATE OF DNA SYNTHESIS. 5-91

TRIPLE
FOUNDATIONS OF THE TRIPLE CENTRE APPROXIMATION. 25-83

TRIS
STRUCTURE OF TRIS(CYCLOPENTADIENYL) FLUOROURANIUM(IV). 9-26

TRISTAN
TRISTAN MAGNETIC SPECTROMETER SYSTEM. 13-17

TRITIATED
BETA ABSORPTION IN TRITIATED TARGETS AND X RAY COUNTING CORRECTIONS 20-11

TRITIUM
DEUTERIUM - TRITIUM FUSION REACTOR ACTIVATION AND AFTERHEAT. 10-19

TRITIUM HANDLING FACILITIES AT THE LOS ALAMOS SCIENTIFIC LABORATORY. 13-16

GAS HANDLING SYSTEM FOR STUDIES OF TRITIUM CONTAINING MATERIALS. 13-6

MONITOR FOR TRITIUM IN AIR CONTAINING OTHER BETA EMITTERS. 17-31

TEMPERATURE DEPENDENT ORDINARY AND THERMAL DIFFUSION OF TRITIUM THROUGH METAL BARRIERS. 20-151

ALPHA PARTICLE ENERGY ABSORPTION IN A REACTING DEUTERIUM - TRITIUM SPHERE. 20-3

FABRICATION OF LITHIUM DEUTERIUM (0.5) TRITIUM (0.5) MICROSPHERES FOR USE AS LASER FUSION TARGETS. 20-43

HYDRODYNAMICS AND BURN OF OPTIMALLY IMPLODED DEUTERIUM - TRITIUM SPHERES. 20-51

LASER DRIVEN IMPLOSION OF SPHERICAL DEUTERIUM - TRITIUM TARGETS TO THERMONUCLEAR BURN CONDITIONS. 20-68

NEUTRON ENERGY AND VELOCITY DISTRIBUTIONS FROM THERMAL DEUTERIUM - TRITIUM REACTIONS. 25-129

PHOTON SPECTRUM IN PION CAPTURE ON TRITIUM. 25-165

PION CHARGE EXCHANGE ON TRITIUM. 25-167

TRITIUM (DEUTERON,NEUTRON) HELIUM -4 AND TRITIUM (TRITON,2NEUTRON) CROSS SECTIONS AT LOW ENERGIES. 25-227

50 MEV POLARIZED NEUTRON FACILITY INCORPORATING A HIGH PRESSURE TRITIUM GAS TARGET. 25-6

TRITIUM CONTAINMENT AFTER BURIAL OF CONTAMINATED SOLID WASTE. 30-93

TRITON
INTEGRAL RELATION FOR THE ASYMPTOTIC NORMALIZATION OF THE TRITON 25-100

STUDY OF THE (TRITON,PROTON) REACTIONS ON HELIUM -4, LITHIUM -6, LITHIUM -7 AND BERYLLIUM -9. 25-211

TEST OF THE GENERALIZED PAULI PRINCIPLE AND OF SUPERMULTIPLET SYMMETRY IN THE REACTIONS TRITON + BERYLLIUM -8 TO LITHIUM -6 + HELIUM -6, LITHIUM -6(*0+) + HELIUM -6. 25-217

TRITIUM (DEUTERON,NEUTRON) HELIUM -4 AND TRITIUM (TRITON,2NEUTRON) CROSS SECTIONS AT LOW ENERGIES. 25-227

YTTRIUM -89 (TRITON,PROTON) YTTRIUM -91 REACTION AT E(T) = 20 MEV. 25-231

ZERO PLUS STATES NEAR THE N=20 NEUTRON SHELL FROM ARGON(TRITON,PROTON) REACTIONS. 25-232

CALCIUM -41 (DEUTERON,TRITON) AND (DEUTERON,H) REACTIONS. 25-24

CHARGE INDEPENDENCE IN THE MASS 6 SYSTEM AS OBSERVED IN THE LITHIUM -6 (TRITON, HELIUM -3)HELIUM -6(0.0) AND LITHIUM -6 (TRITON,TRITON') LITHIUM -6 (3.56) REACTIONS. 25-28

(TRITON,PF) REACTION ON RADIUM -226. 25-3

COMPARISON OF (TRITON,HELIUM -3), (HELIUM -3,TRITON) AND (HELIUM -3,PROTON) REACTIONS OF F-P SHELL NUCLEI. 25-32

(TRITON,PROTON) REACTION ON ARGON -36, 38, 40. 25-4

2P-1H STATES IN LEAD -209 EXCITED BY THE METASTABLE BISMUTH -210 (TRITON, ALPHA) REACTION. 25-5

ANALOGS OF THE SILICON -28 COLLECTIVE M1 STATES OBSERVED IN THE SILICON -28 (TRITON,HELIUM -3) ALUMINUM -28 REACTION. 25-9

TRITON'
CHARGE INDEPENDENCE IN THE MASS 6 SYSTEM AS OBSERVED IN THE LITHIUM -6 (TRITON, HELIUM -3)HELIUM -6(0.0) AND LITHIUM -6 (TRITON,TRITON') LITHIUM -6 (3.56) REACTIONS. 25-28

TRITONS
OPTICAL MODEL POTENTIALS FOR DEUTERONS, TRITONS AND HELIONS. 25-150

POLARIZATION MEASUREMENTS AND OPTICAL MODEL POTENTIAL FOR TRITONS. 25-175

RADIOCHEMICAL STUDIES OF SOME LOW AND MEDIUM ENERGY NUCLEAR REACTIONS PRODUCED BY ACCELERATED TRITONS, DEUTERONS, AND PROTONS. 25-194

ELASTIC SCATTERING OF 7-12 MEV TRITONS BY ALPHA PARTICLES. 25-57

TROUT
CESIUM KINETICS DATA FOR ESTIMATING FOOD CONSUMPTION RATES OF TROUT. 5-34

TUBE
INVESTIGATION OF MICRO-CHANNEL PLATES AS PARALLEL BORE ELECTRON COLLIMATORS FOR USE IN A PROXIMITY FOCUSED ULTRA FAST STREAK TUBE 19-12

PROXIMITY FOCUSED ULTRA-FAST STREAK TUBE. 20-121

TUFF
CHEMICAL CORROSION OF MOLYBDENUM AND TUNGSTEN IN LIQUID BASALT, TUFF, AND GRANITE WITH APPLICATION TO SUBTERRENE PENETRATORS. 11-7

TUMOR
PREPARATIVE METHODS FOR ANALYSIS OF DNA, PROTEIN AND NUCLEAR - TO - CYTOPLASMIC RATIOS IN NORMAL AND TUMOR CELL POPULATIONS. 5-118

ANALYSIS OF CELL AGE DISTRIBUTION DURING ASCITES TUMOR GROWTH. 5-2

DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, APRIL 1 - JUNE 30, 1975. 5-50

DEVELOPMENT OF A CELL ANALYSIS AND SORTING SYSTEM APPLICABLE TO TUMOR CELL CHARACTERIZATION AND KINETIC STUDIES, SEPTEMBER 1, 1974 - MARCH 1, 1975. 5-51

TUMORS
DNA CONSTANCY IN HETEROPLOIDY AND THE STEM LINE THEORY OF TUMORS. 5-56

INITIAL COMPARATIVE RESPONSE OF EXPERIMENTAL TUMORS TO PEAK PIONS AND X RAYS. 5-81

TUNGSTEN
EMF'S ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM: BARE ELECTRODE EFFECTS, USE OF N UNEQUAL TO 2, PREMONITORY PHENOMENA AND LIQUID STRUCTURE IN GOLD -CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS. 7-5

CHEMICAL CORROSION OF MOLYBDENUM AND TUNGSTEN IN LIQUID BASALT, TUFF, AND GRANITE WITH APPLICATION TO SUBTERRENE PENETRATORS 11-7

FRACTURE BEHAVIOR OF A PLATINUM(30 PERCENT) RHENIUM(8 PERCENT) TUNGSTEN ALLOY BETWEEN ROOM TEMPERATURE AND 1300 DEGREES CELSIUS. 23-22

FRACTURE BEHAVIOR OF IRIDIUM - 0.3 PERCENT TUNGSTEN AT HIGH STRAIN RATES. 23-23

MATRIX MOTION OF LOW VOLUME MATRIX TUNGSTEN/NICKEL/IRON COMPOSITES SINTERED IN A TEMPERATURE GRADIENT. 23-37

CHEMICAL METHODS FOR PREPARATION OF COMBINATIONS OF MOLYBDENUM, TUNGSTEN, AND URANIUM OXIDES. 23-4

PROCESS FOR IMPROVING THE LOW TEMPERATURE DUCTILITY OF TUNGSTEN BASE COMPOSITES. 23-46

CHEMICAL VAPOR DEPOSITION OF TUNGSTEN. 23-5

STRENGTHENING OF LIQUID SINTERED TUNGSTEN ALLOYS. 23-56

TUNGSTEN CARBIDE CRITICAL ASSEMBLY. [illegible]

EVALUATION OF GAMMA RAY PRODUCTION CROSS SECTIONS FROM NEUTRON INDUCED REACTIONS ON TUNGSTEN. 25-70

TUNING
TUNING OF THE BIOMEDICAL CHANNEL AT LAMPF. 5-142

TUNING OF THE FIRST SECTION OF THE BIOMEDICAL CHANNEL AT LAMPF. 5-143

TUNNEL
DISTRIBUTION OF SUPERNOVA REMNANTS IN THE GALAXY: EVIDENCE FOR A TUNNEL SYSTEM. 3-13

APPARATUS AND METHOD FOR LARGE TUNNEL EXCAVATION IN HARD ROCK. 11-4

TURBULENCE
ION COUPLING, ELECTRON HEATING, AND MAGNETIC TURBULENCE FROM PLASMA INSTABILITIES. 19-63

EFFECTS OF TURBULENCE ON LOW ALTITUDE FIREBALLS AT LATE TIMES. 18-12

TRANSIENT DYNAMICS OF CHEMICALLY REACTIVE GASEOUS MIXTURES WITH TURBULENCE. 18-52

ION WAVE TURBULENCE INDUCED BY AN EXPANDING MULTI-COMPONENT PLASMA. 20-61

TURBULENT
TIME DEPENDENT TURBULENT MIXING. 18-51

TURBULENT PUSHER BEHAVIOR. 20-157

TURNINGS
RESPONSE OF THE PLASMA SHEET AT APPROXIMATELY 18 EARTH RADII TO SUDDEN SOUTHWARD TURNINGS OF THE INTERPLANETARY MAGNETIC FIELD 1-23

TWO
TWO BARIUM PLASMA INJECTIONS INTO THE NORTHERN MAGNETOSPHERIC CLEFT. 1-30

USE OF TWO ANGLE ELASTIC AND RAMAN SCATTERING TO OBTAIN MOLECULAR DENSITY AND AEROSOL SCATTERING PROFILES. 1-31

RESONANT LINE AND SATELLITE SPECTRA FROM ONE, TWO, AND THREE ELECTRON IONS IN LASER GENERATED PLASMAS 4-57

DIFFERENTIAL EFFECTS OF TWO CHEMOTHERAPEUTIC AGENTS, STREPTOZOTOCIN AND CHLOROZOTOCIN, ON THE MAMMALIAN CELL CYCLE 5-54

INVESTIGATION OF THE TWO COMPONENT RADIATION INJURY CONCEPT USING EQUIVALENT RESIDUAL DOSE FACTORS 5-83

DESIGN AND PERFORMANCE OF TWO 10 KA SUPERCONDUCTING SWITCHES 8-10

FORCED CONVECTION HEAT TRANSFER WITH TWO PHASE FLOW 8-18

CRYSTAL DATA FOR TWO POLYMORPHIC FORMS OF PLUTONIUM DIOXIDE (PUO2). 9-7

TWO DIMENSIONAL STABILITY OF AN ELECTROMAGNETIC WAVE OBLIQUELY INCIDENT ON A NONUNIFORM PLASMA. 10-153

ENERGY SPECTRUM OF INJECTED FUSSILE IONS IN TWO COMPONENT FUSION SYSTEMS. 10-29

FLUTE INSTABILITIES IN TWO DIMENSIONAL SIMULATIONS OF STRONGLY INHOMOGENEOUS THETA PINCH PLASMAS 10-40

COMPARISON OF THREE TWO DIMENSIONAL ELECTROSTATIC PLASMA SIMULATION MODELS 10-8

CRITICAL BOREHOLE PRESSURE FOR A VERTICAL HYDRAULIC CRACK IN THE PRESENCE OF TWO PRINCIPAL TOTAL STRESSES 11-9

DISCHARGE FLOW WITH TWO DIMENSIONAL FLUID MODEL ANALYSIS 18-11

NUMERICAL CALCULATION OF FLASHING FROM LONG PIPES USING A TWO FIELD MODEL. 18-26

NUMERICAL CALCULATION OF TWO PHASE FLOWS 18-29

SIMULATION OF THE TWO STREAM INSTABILITY WITH FOUR NUMERICAL MODELS 18-45

TWO DIMENSIONAL EFFECTS ON THERMAL OUTPUT. 18-53

TWO DIMENSIONAL FIREBALL CALCULATIONS. 18-54

YOKIFER: A TWO DIMENSIONAL HYDRODYNAMICS AND RADIATION TRANSPORT PROGRAM 18-56

RAMSES, A TWO DIMENSIONAL, PIC TYPE, LASER PULSE PROPAGATION CODE. 20-128

TWO DIMENSIONAL CALCULATIONS OF ASYMMETRIC LASER FUSION TARGETS USING IRIS. 20-158

TWO DIMENSIONAL LAGRANGIAN LASER PELLET SIMULATION CODE. 20-159

COLLECTIVE ION ACCELERATION VIA THE TWO STREAM INSTABILITY. 20-18

ENERGY DEPOSITION IN A TWO DIMENSIONAL LCTR MODEL. 20-37

ION ACCELERATION BY THE RELATIVISTIC TWO STREAM INSTABILITY. 20-59

AMPLIFIERS INVOLVING TWO PHOTON ENERGY EXTRACTION SCHEMES 20-6

EXTRAPOLATED COLLOCATION FOR TWO POINT BOUNDARY VALUE PROBLEMS USING CUBIC SPLINES. 21-33

EFFICIENCY AND POSITION RESOLUTION OF TWO DIMENSIONAL POSITION SENSITIVE MULTIWIRE PROPORTION COUNTERS. 22-12

TWO BODY PHOTODISINTEGRATION OF HELIUM -3 AND HYDROGEN -3. 22-53

PARITY NONCONSERVATION IN TWO NUCLEON SYSTEMS. 25-154

ROLE OF TWO NUCLEON SHORT RANGE CORRELATIONS IN PION CHARGE EXCHANGE REACTIONS WITH NUCLEI. 25-198

COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATION FOR THE FULLY OFF SHELL TWO NUCLEON T MATRIX. 25-38

EFFECT OF SHORT RANGED UNITARY TRANSFORMS ON THE RATE OF THE REACTION NEGATIVE PION PLUS DEUTERON GOES TO GAMMA RAY PLUS TWO NEUTRONS. 25-52

EFFECTIVE TWO BODY INTERACTION IN SIMPLE NUCLEAR SPECTRA 25-53

U

DOUBLE MODE CEPHEIDS AND U TRA 3-14

CANONICAL RESOLUTION OF THE MULTIPLICITY PROBLEM FOR U(3). AN EXPLICIT AND COMPLETE CONSTRUCTIVE SOLUTION 21-15

STRUCTURAL PROPERTIES OF THE CANONICAL U(3) RACAH FUNCTIONS AND THE U(3) U(2) PROJECTIVE FUNCTIONS 21-73

U S THEORETICAL AND COMPUTATIONAL PROGRAM: TRANSPORT THEORY. 24-21

COMPARISON OF U S ALLIED AND SOVIET TACTICAL NUCLEAR FORCE CAPABILITIES AND POLICIES 30-12

NUCLEAR WEAPONS, THEIR ROLE IN U S POLITICAL AND MILITARY POSTURE, AND AN EXAMPLE 30-52

SOME U S STUDIES OF THE OKLO PHENOMENON 30-84

ULTRA
INVESTIGATION OF MICRO-CHANNEL PLATES AS PARALLEL BORE ELECTRON COLLIMATORS FOR USE IN A PROXIMITY FOCUSED ULTRA FAST STREAK TUBE 19-12

ULTRA FAST
PROXIMITY FOCUSED ULTRA FAST STREAK TUBE. 20-121

ULTRAFAST
ULTRAFAST STREAK CAMERA 20-160

ULTRASHORT
ULTRASHORT PHENOMENA 20-161

ULTRASONIC
MELTING PROPERTIES AND ULTRASONIC VELOCITY OF NITROGEN TO 20 KBAR 4-39

ULTRASOUND
BIOLOGICAL EFFECTS OF ULTRASOUND ON CULTURED MAMMALIAN CELLS. 5-14

ULTRAVIOLET
INSTANT SPECTROSCOPY IN THE VISIBLE, ULTRAVIOLET, AND VACUUM ULTRAVIOLET WITH POLAROID FILM. 2-15

ULTRAVIOLET CHARGE EXCHANGE ENERGY LOSS PARTITION AS A FUNCTION OF BURST ALTITUDE AND YIELD TO MASS RATIO 4-68

UNCERTAINTY
CROSS SECTION UNCERTAINTY ANALYSIS. 25-40

UNCOMMON
CRYOGENICS: THE UNCOMMON COLD 8-9

UNDERDENSE
ELECTROMAGNETIC SCATTERING INSTABILITIES IN WEAKLY INHOMOGENEOUS UNDERDENSE PLASMA. 20-35

UNDERSTANDING
RECENT DEVELOPMENTS IN UNDERSTANDING THE PLASMA PHYSICS OF LASER TARGET INTERACTIONS 20-130

UNEQUAL
EMF'S ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM. BARE ELECTRODE EFFECTS. USE OF N UNEQUAL TO 2. PREMONITORY PHENOMENA AND LIQUID STRUCTURE IN GOLD -CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS. 7-5

UNIFIED
UNIFIED APPROACH TO MULTIPARTICLE PRODUCTION PROCESSES AT HIGH ENERGY 27-20

UNIFORM
CONTROLLED POROSITY FILTER AND UNIFORM STRUCTURE COMPOSITES. 23-8

CALCULATIONS OF COULOMB ENERGIES FOR UNIFORM CHARGE DISTRIBUTIONS OF ARBITRARY SHAPE. 24-2

UNIQUE
UNIQUE TECHNIQUES FOR CELL CYCLE ANALYSIS UTILIZING MITHRAMYCIN AND FLOW MICROFLUOROMETRY. 5-144

UNIQUE REFRACTORY TECHNIQUES FOR FABRICATING SUBTERRENE PENETRATORS. 11-60

UNITARY
EFFECT OF SHORT RANGED UNITARY TRANSFORMS ON THE RATE OF THE REACTION NEGATIVE PION PLUS DEUTERON GOES TO GAMMA RAY PLUS TWO NEUTRONS. 25-52

UNSTABLE
ENHANCED WEAK FIELD ELECTRICAL RESISTIVITY OF A PARAMETRICALLY UNSTABLE PLASMA. 10-32

UNSTAINED
CELL CLASSIFICATION BY LASER LIGHT SCATTERING: IDENTIFICATION AND SEPARATION OF UNSTAINED LEUKOCYTES. 5-19

UNWRAPPED
NUMERICAL SIMULATION OF FLOW IN AN UNWRAPPED DOWNCOMER. 18-33

UPGRADING
EXTERNAL PRESSURIZATION AS A MEANS OF UPGRADING GLASS MICROBALLOONS 20-42

URANIUM
FAST REACTOR FISSION YIELDS FOR URANIUM -233, URANIUM -235, URANIUM -238, AND PLUTONIUM -239 AND DETERMINATION OF BURNUP IN FAST BREEDER REACTOR MIXED OXIDE FUELS. 2-14

OXYGEN POTENTIAL OF URANIUM - PLUTONIUM OXIDE AS DETERMINED BY CONTROLLED ATMOSPHERE THERMOGRAVIMETRY. 2-19

URANIUM TRANSITIONS AND ENERGY LEVELS WHICH MAY BE USEFUL IN ATOMIC PHOTOIONIZATION SCHEMES FOR SEPARATING URANIUM -238 AND URANIUM -235 2-28

AXIAL DISTRIBUTIONS OF NIOBIUM -95 AND ZIRCONIUM -95 ISOTOPES IN IRRADIATED URANIUM DIOXIDE - PLUTONIUM DIOXIDE FUEL PINS. 2-3

COPRECIPITATION OF URANIUM AND PLUTONIUM OXALATES USING SODIUM FORMALDEHYDE SULFOXYLATE REDUCTION AND DIETHYL OXALATE HYDROLYSIS PRECIPITATION 2-7

URANIUM IN THE TISSUE OF OCCUPATIONALLY EXPOSED WORKERS 5-145

KINETICS OF THE OXIDATION - REDUCTION REACTIONS OF URANIUM, NEPTUNIUM, PLUTONIUM AND AMERICIUM IN AQUEOUS SOLUTIONS 7-10

ANOMALOUS THERMAL PROPERTY BEHAVIOUR OF URANIUM AT LOW TEMPERATURES 8-4

SYNTHESIS, CHARACTERIZATION AND STRUCTURE OF URANIUM OXIDE TETRAFLUORIDE 9-27

PROSPECTS FOR CONVERTING THORIUM -232 TO URANIUM -233 IN A LINEAR THETA PINCH HYBRID REACTOR (LTPHR) 10-109

INDUCED PARAMAGNETISM IN URANIUM ALLOYS: A BORON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY OF ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND YTTRIUM TETRABORIDE 14-8

NUCLEAR CHARGE DISTRIBUTION IN FISSION SPECTRUM NEUTRON INDUCED FISSION: FRACTIONAL CUMULATIVE YIELDS OF RARE GAS NUCLIDES FROM FISSION OF URANIUM -235 AND URANIUM -238 16-10

PHOTOFISSION AND PHOTONEUTRON MEASUREMENT OF URANIUM -238 WITH MONOENERGETIC PHOTONS 16-11

GAMMA AND BETA DECAY POWER FOLLOWING URANIUM -235 AND PLUTONIUM -239 FISSION BURSTS 16-5

PLUTONIUM, AMERICIUM AND URANIUM CONCENTRATIONS IN NEVADA TEST SITE SOIL PROFILES 17-43

STUDIES OF PLUTONIUM, AMERICIUM, AND URANIUM IN ENVIRONMENTAL MATRICES 17-58

ABSORPTION SPECTRUM OF URANIUM HEXAFLUORIDE FROM 2000 TO 4200 ANGSTROMS. 20-1

OXYGEN -18 ENRICHMENT PROCESS IN URANIUM OXYFLUORIDE UTILIZING LASER LIGHT 20-113

FRAGMENT PRODUCTION IN THE INTERACTION OF 800 MEV PROTONS WITH URANIUM 22-16

DUCTILE TO BRITTLE TRANSITION OF URANIUM - 0.75 WT PERCENT TITANIUM PENETRATOR CORES. 23-10

EFFECT OF PRESSURE ON CURIE TEMPERATURE OF URANIUM (FE1-XMNX)2 COMPOUNDS 23-12

EXPERIMENTS ON URANIUM LOSS FROM URANIUM LOADED GRAPHITE AT ELEVATED TEMPERATURES 23-29

LIMITED EVALUATION OF THE CORROSION OF URANIUM AND WEAPON ASSOCIATED METALS IN SUBSTITUTE OCEAN WATER. 23-33

CHEMICAL METHODS FOR PREPARATION OF COMBINATIONS OF MOLYBDENUM, TUNGSTEN, AND URANIUM OXIDES. 23-4

USE OF URANIUM -237 TRACER IN MONITORING PLUTONIUM SCRAP RECOVERY OPERATIONS. 23-62

NEUTRON SPECTRUM FROM AN ENRICHED URANIUM -235 SPHERE. 25-135

NUCLEAR CHARGE PARAMETERS FOR THE ODD-A ACTINIDES URANIUM -235 AND PLUTONIUM -239. 25-141

PHOTOFISSION AND PHOTONEUTRON REACTIONS IN URANIUM -235. 25-160

PHOTOFISSION AND PHOTONEUTRON REACTIONS IN URANIUM -236. 25-161

RADIOCHEMICAL INVESTIGATION OF REACTIONS OF ARGON -40 AND KRYPTON -84 IONS WITH URANIUM -238 TARGETS. 25-193

SPIN DETERMINATION OF RESONANCES IN URANIUM -235. 25-209

CHARACTERISTICS OF LOW Z FRAGMENTS PRODUCED IN THE INTERACTION OF 800 MEV PROTONS WITH URANIUM. 25-25

FISSION CROSS SECTION OF URANIUM -238 IN THE NEIGHBORHOOD OF 7 MEV. 25-80

INELASTIC SCATTERING CROSS SECTIONS OF LEAD AND URANIUM FOR 14 MEV NEUTRONS. 25-99

NEUTRON MEASUREMENTS OF URANIUM -234 ISOTOPIC ABUNDANCE IN URANIUM HEXAFLUORIDE SAMPLES. 26-11

ON LINE MEASUREMENT OF THE ISOTOPIC COMPOSITION OF URANIUM IN URANIUM HEXAFLUORIDE. 26-20

PERFORMANCE OF SELECTED NONDESTRUCTIVE ASSAY TECHNIQUES ON LWR (LIGHT WATER REACTOR) (PLUTONIUM,URANIUM) DIOXIDE AND URANIUM DIOXIDE FUEL. 26-21

RECENT DEVELOPMENTS IN THE DISSOLUTION AND AUTOMATED ANALYSIS OF PLUTONIUM AND URANIUM FOR SAFEGUARDS MEASUREMENTS. 26-23

TOTAL PLUTONIUM AND URANIUM DETERMINATION BY GAMMA RAY DENSITOMETRY. 26-28

CALIFORNIUM -252 NEUTRON SOURCE SYSTEMS FOR THE ASSAY OF URANIUM AND PLUTONIUM IN FUEL RODS. 26-3

ANALYTICAL CHEMISTRY PROGRAM FOR THE ANALYSIS OF URANIUM LOADED FUEL ELEMENTS. 28-2

POSTIRRADIATION RESULTS AND EVALUATION OF SODIUM BONDED URANIUM - PLUTONIUM CARBIDE FUEL ELEMENTS IRRADIATED IN EBR-II. INTERIM REPORT 28-27

FABRICATION OF URANIUM LOADED GRAPHITE FUEL ELEMENTS FOR KIWI-B4/B5 REACTORS. 30-27

URANYL
SELF CONSISTENT FIELD CALCULATION OF THE ELECTRONIC STRUCTURE OF THE URANYL ION. 4-59

URBAN
URBAN MICROMETEOROLOGY AND INSTRUMENTATION. 30-94

UREA
SYNTHESES WITH STABLE ISOTOPES: UREA (CARBON -13), UREA (CARBON -12), AND UREA (CARBON -13,NITROGEN -15). 7-19

US
INVESTIGATION OF PERFORMANCE OF US ARMY FILTER CANISTERS AND RESPIRATORS EQUIPPED WITH PROTOTYPE FACEPIECES. 17-29

WHAT CAN RAPIDITY GAPS TEACH US ABOUT CLUSTERING 25-229

USERDA
USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. APRIL 1 - JUNE 30, 1975. 8-58

USERDA DIVISION OF ELECTRIC ENERGY SYSTEMS DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. JANUARY 1 - MARCH 31, 1975 8-59

USERDA DIVISION OF ELECTRIC POWER TRANSMISSION AND DISTRIBUTION DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. OCTOBER 1 THROUGH DECEMBER 31, 1974. 8-60

USERDA-DAT
PROGRESS REPORT. USERDA-DAT DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. JULY 1 THROUGH SEPTEMBER 30, 1974. 8-38

USERS
CINDER-7: AN INTERIM REPORT FOR USERS. 28-5

UTILIS
CARBON -13 FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE STUDIES OF FRACTIONATED CANDIDA UTILIS MEMBRANES 5-17

UTILITY
MAGNETIC ENERGY STORAGE FOR ELECTRIC UTILITY APPLICATIONS. 8-26

MAGNETIC ENERGY STORAGE FOR ELECTRIC UTILITY APPLICATIONS. 8-27

MAGNETIC ENERGY STORAGE FOR ELECTRIC UTILITY APPLICATIONS. 8-28

WILL SUPERCONDUCTING MAGNETIC ENERGY STORAGE BE USED ON ELECTRIC UTILITY SYSTEMS 8-52

UTILIZATION
FLUORINE - HYDROGEN EXPLOSION AND ITS POSSIBLE UTILIZATION IN LARGE CHEMICAL LASERS. 6-9

UTILIZING
UNIQUE TECHNIQUES FOR CELL CYCLE ANALYSIS UTILIZING MITHRAMYCIN AND FLOW MICROFLUOROMETRY. 5-144

DIAGNOSES OF DISEASE STATES BY FLUORESCENT MEASUREMENTS UTILIZING SCANNING LASER BEAMS. 5-52

OXYGEN -18 ENRICHMENT PROCESS IN URANIUM OXYFLUORIDE UTILIZING LASER LIGHT. 20-113

UV
UV PHOTOIONIZATION PROCESSES IN SEEDED HIGH PRESSURE LASER GASES. 20-162

VACANCIES
ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 1 PHASE BOUNDARY, THERMODYNAMICS AND LATTICE PARAMETER 9-1

ATOM VACANCIES AND THEIR EFFECTS ON THE PROPERTIES OF NIOBIUM NITRIDE CONTAINING CARBON, OXYGEN OR BORON. PART 2 SUPERCONDUCTING TRANSITION TEMPERATURE 9-2

VACUUM
INSTANT SPECTROSCOPY IN THE VISIBLE, ULTRAVIOLET, AND VACUUM ULTRAVIOLET WITH POLAROID FILM 2-15

HIGH ORDEB VACUUM POLARIZATION IN EXOTIC ATOMS 4-27

HIGH TEMPERATURE VACUUM THERMAL STABILITY TESTS OF EXPLOSIVES 15-13

EVACUATED REFRIGERANT CONTAINER AS A SOURCE OF VACUUM FOR AIR SAMPLING 17-26

ESTIMATE OF THE (Z-ALPHA)2 - ALPHA -2 VACUUM POLARIZATION TERM IN MUONIC LEAD. 22-13

VACUUM POLARIZATION IN STRONG, REALISTIC ELECTRIC FIELDS. 25-228

CATHODIC VACUUM ETCHING TECHNIQUES FOR GRAPHITE FUEL ELEMENT SECTIONS. 30-9

VALENCIA
ADDITIONAL NOTE ON THE ISOTOPIC COMPOSITION OF STRONTIUM IN MCCARTYS FLOW, VALENCIA COUNTY, NEW MEXICO 11-1

VALID
PHYSICAL STANDARDS AND VALID CALIBRATION. 26-22

VALIDITY
ON THE VALIDITY OF THE SLATER APPROXIMATION IN ELECTRON SCREENING IN EXOTIC ATOMS 4-47

VALUE
INITIAL VALUE PROBLEM IN RELATIVISTIC PLASMA 10-61

CONVERGENCE ESTIMATES FOR GALERKIN METHODS FOR VARIABLE COEFFICIENT INITIAL VALUE PROBLEMS. 21-27

EXTRAPOLATED COLLOCATION FOR TWO POINT BOUNDARY VALUE PROBLEMS USING CUBIC SPLINES. 21-33

SPLINE-GALERKIN METHODS FOR INITIAL VALUE PRORLEMS WITH VARIABLE COEFFICIENTS. 21-75

ERBIUM -158 TO HOLMIUM -158 DECAY SCHEME AND Q-BETA VALUE. 25-68

VALUES
SPOT TEST LIMIT OF DETECTION VALUES FOR CARCINOGENIC AROMATIC AMINES AND THEIR HOMOLOGUES AND ANALOGUES. 17-57

VAN
NONDESTRUCTIVE ASSAY OF INVENTORY VERIFICATION SAMPLES AT THE LASL VAN DE GRAAFF SMALL SAMPLE ASSAY STATION. 26-13

VANADIUM
YIELD STRENGTH OF FINE GRAINED VANADIUM PRODUCED BY HIGH RATE PHYSICAL VAPOR DEPOSITION. 23-64

VANISHING
CONDITION FOR A VANISHING CROSS SECTION AT THETA = PI/2 IN BARSHAY-TEMMER REACTIONS. 25-35

VAPOR
PREPARATION OF HIGH T(C) NIOBIUM(3) GERMANIUM SUPERCONDUCTORS BY CHEMICAL VAPOR DEPOSITION. 8-37

LASER - FUSION TARGET FABRICATION: APPLICATION OF A POLYMERIC ABLATOR COATING TO A BALL AND DISK TARGET DESIGN BY THE PHYSICAL VAPOR DEPOSITION OF POLYETHYLENE. 20-66

MICROSPHERICAL LASER TARGETS BY CHEMICAL VAPOR DEPOSITION. 20-94

HIGH RATE PHYSICAL VAPOR DEPOSITION OF REFRACTORY METALS. 23-29

LOW TEMPERATURE THERMAL AND ELECTRICAL PROPERTIES OF CHEMICAL VAPOR DEPOSITED NIOBIUM(3)GERMANIUM. 23-34

CHEMICAL VAPOR DEPOSITION OF TUNGSTEN. 23-5

VAPOR PHASE COATINGS OF METALS AND ORGANICS FOR LASER FUSION TARGET APPLICATIONS. 23-63

YIELD STRENGTH OF FINE GRAINED VANADIUM PRODUCED BY HIGH RATE PHYSICAL VAPOR DEPOSITION. 23-64

VAPORIZATION
ENTROPY CORRELATION FOR THE 4F AND 5F METALS: RELATION OF ELECTRONIC PROPERTIES TO METALLIC RADII, MAGNETIC TRANSFORMATIONS AND THERMODYNAMICS OF VAPORIZATION. 4-21

VAPORIZED
CHEMICAL EQUILIBRIA IN HOT AIR WITH MOISTURE, SALT, AND VAPORIZED METAL CONTAMINANTS. 7-2

VAPORS
PERSONAL AIR SAMPLING FOR VAPORS OF ANILINE COMPOUNDS 17-49

VARIABLE
HYDRODYNAMIC EFFECTS IN THE ATMOSPHERES OF VARIABLE STARS 3-20

EFFECT OF VARIABLE ENTROPY IN THE THEORY OF SPHERICALLY CONVERGENT DETONATION WAVES 15-8

NVERGENCE ESTIMATES FOR GALERKIN METHODS FOR VARIABLE COEFFICIENT INITIAL VALUE PROBLEMS 21-27

SPLINE-GALERKIN METHODS FOR INITIAL VALUE PROBLEMS WITH VARIABLE COEFFICIENTS 21-75

VARIABLES
CEPHEID PULSATION THEORY AND MULTIPERIODIC CEPHEID VARIABLES 3-8

VARIANT
COMPLEX CARBOHYDRATES OF A DETACHMENT VARIANT SUBLINE OF CHO CELLS 5-44

VARYING
TIME DENSITY STUDY OF WATER IN KIWI-B4 FUEL ELEMENTS WITH VARYING IMPACT VELOCITIES 30-91

VECTOR
EXPLOITING VECTOR MODE IN A SISD COMPUTER. 21-32

VEGAS
AEROSPACE INSTRUMENTATION. 1973. 19TH INTERNATIONAL SYMPOSIUM, LAS VEGAS, NV. PROCEEDINGS. INSTRUMENTATION IN THE AEROSPACE INDUSTRY, V 19. 19-1

VEHICLE
OPERATING EXPERIENCE WITH A LIQUID HYDROGEN FUELED VEHICLE. 8-34

VEHICLES
RATIONAL DYNAMIC LOADS ANALYSIS FOR AIR CUSHION VEHICLES IN RANDOM SEAWAY OR TERRAIN 30-76

VELA
COMPLETE PLASMA DROPOUTS AT VELA SATELLITES DURING THINNING OF THE PLASMA SHEET 1-2

VELOCITIES
ELASTIC CONSTANTS AND SOUND VELOCITIES. 4. THE ELASTIC CONSTANTS OF PLUTONIUM 23-18

TIME DENSITY STUDY OF WATER IN KIWI-B4 FUEL ELEMENTS WITH VARYING IMPACT VELOCITIES 30-91

VELOCITY
EQUATION OF STATE OF NITROGEN TO 21 KBAR FROM SIMULTANEOUS MEASUREMENT OF P V T AND SOUND VELOCITY. 4-22

MELTING PROPERTIES AND SOUND VELOCITY OF NITROGEN TO 21 KILOBARS. 4-38

MELTING PROPERTIES AND ULTRASONIC VELOCITY OF NITROGEN TO 20 KBAR. 4-39

SOUND VELOCITY AND THE EQUATION OF STATE OF NITROGEN(2) TO 22 KBAR. 4-63

DIRECTIONAL EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT. 8-13

INVESTIGATION OF THE SOURCES OF ASYMMETRY EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT IN TYPE II TANTALUM WIRES. 8-20

OBSERVATION OF ASYMMETRY EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT IN TYPE II TANTALUM WIRES. 8-32

PROJECTILE VELOCITY MEASUREMENTS AND QUARTZ AND MANGANIN GAUGE PRESSURE DETERMINATIONS IN GAS GUN EXPERIMENTS. 15-22

NEUTRON ENERGY AND VELOCITY DISTRIBUTIONS FROM THERMAL DEUTERIUM - TRITIUM REACTIONS. 25-129

DEUTERON - DEUTERON TOTAL SCATTERING CROSS SECTIONS IN THE VELOCITY RANGE 950-2250 M/SEC. 25-47

VENTILATION
VENTILATION SYSTEMS ANALYSIS DURING TORNADO CONDITIONS, JANUARY - JUNE 1975. 13-19

VENTILATION SYSTEMS ANALYSIS DURING TORNADO CONDITIONS, JULY THROUGH DECEMBER 1974. 13-20

DESIGN OF VENTILATION AND AIR CLEANING SYSTEMS FOR THE NEW LOS ALAMOS PLUTONIUM FACILITY. 17-10

VENTILATION DESIGN MODIFICATIONS AT LOS ALAMOS SCIENTIFIC LABORATORY MAJOR PLUTONIUM OPERATIONAL AREAS. 17-61

VERIFICATION
NONDESTRUCTIVE ASSAY OF INVENTORY VERIFICATION SAMPLES AT THE LASL VAN DE GRAAFF SMALL SAMPLE ASSAY STATION. 26-13

VERSATILE
MONITOR A VERSATILE REMOTE HANDLING SYSTEM 22-32

VERSATILE MULTIPOLE CORRECTION MAGNET OF RECTANGULAR APERTURE 22-55

VERSUS
ABSTRACTION VERSUS EXCHANGE IN THE REACTION OF HYDROGEN WITH DEUTERIUM BROMIDE 6-1

VERTICAL
CRITICAL BOREHOLE PRESSURE FOR A VERTICAL HYDRAULIC CRACK IN THE PRESENCE OF TWO PRINCIPAL TOTAL STRESSES 11-9

VESSELS
PARTICULATE TRANSPORT IN THREE DIMENSIONAL FLUID FLOWS THROUGH CURVED AND BIFURCATING VESSELS 18-37

PRESTRESSED CONCRETE REACTOR VESSELS. REVIEW OF DESIGN AND FAILURE CRITERIA 28-30

VETERINARIAN
IMPACT OF ELECTRONIC IDENTIFICATION AND DISEASE DETECTION ON THE ROLE OF THE VETERINARIAN 5-77

VIBRATIONAL
ON THE PREFERENCE FOR VIBRATIONAL ENERGY IN DIATOMIC DISSOCIATION 4-46

VIBRATIONAL SPECTRUM AND FORCE FIELD OF MOLYBDENUM HEXAFLUORIDE. 4-69

EFFECT OF REAGENT VIBRATIONAL ENERGY ON MEASURED REACTION RATE CONSTANTS 6-7

VIBRATIONS
IMPORTANCE OF THE QUADRUPOLE PAIRING FIELD IN THE J(PI)=0(+) VIBRATIONS OF SHAPE DEFORMED NUCLEI 25-97

VICINITY
WATER QUALITY IN VICINITY OF FENTON HILL SITE, 1974. 11-62

VIDEO
IMAGE INTENSIFICATION AND VIDEO RECORDING SYSTEM FOR ASTRONOMICAL OBSERVATIONS. 3-22

VIDICON
QUANTUM LIMITED NEAR INFRARED VIDICON CAMERA SYSTEM. 19-17

VIIIA
THERMODYNAMIC PROPERTIES OF THE BINARY LAVES PHASE COMPOUNDS OF PLUTONIUM WITH THE GROUP VIIIA METALS. 7-23

VILLAGE
ANAKTUVUK PASS, ALASKA VILLAGE CENSUS. 30-1

VIOLATING
PARITY VIOLATING ASYMMETRY IN NEUTRON PHOTO CAPTURE BY PROTONS AND THE ISOSPIN STRUCTURE OF THE STRANGENESS CONSERVING NONLEPTONIC WEAK INTERACTIONS. 25-155

EXCHANGE EFFECTS FROM WEAK RADIATIVE MESONIC TRANSITIONS IN PARITY VIOLATING NUCLEAR PROCESSES. 25-71

IMPLICATIONS OF PARITY VIOLATING EFFECTS IN STRANGENESS CONSERVING NONLEPTONIC PROCESSES. 25-96

VIOLATION
PARITY VIOLATION IN P-P AND P-BE REACTIONS. 25-156

VISCOUS
VISCOUS MELT FLOW AND THERMAL ENERGY TRANSFER FOR A ROCK MELTING PENETRATOR: LITHOTHERMODYNAMICS. 11-61

VISIBLE
INSTANT SPECTROSCOPY IN THE VISIBLE, ULTRAVIOLET, AND VACUUM ULTRAVIOLET WITH POLAROID FILM. 2-15

VISITOR
APPLIED MATHEMATICS RESEARCH AND VISITOR PROGRAM, JULY 1, 1974 - JUNE 30, 1975. 21-7

VISUAL
REVIEW OF AVAILABLE TECHNOLOGY FOR NARROW BAND TRANSMISSION OF VISUAL MATERIAL. 13-15

VITRO
RATE OF DNA SYNTHESIS DURING S PHASE BY MAMMALIAN CELLS IN VITRO. 5-124

REGULATION OF ADENYLATE CYCLASE ACTIVITY BY CELL SURFACE HYALURONATE IN HUMAN LIMB MESENCHYMAL CELLS IN VITRO. 5-126

HEAVY ION IRRADIATION OF HUMAN AND CHINESE HAMSTER CELLS IN VITRO. 5-74

VIVO
IN VIVO TISSUE ANALYSIS USING MU MESIC X RAYS. 5-79

VLASOV
STABILITY ANALYSIS OF SHARP BOUNDARY VLASOV FLUID SCREW PINCH EQUILIBRIA. 10-128

STABILITY ANALYSIS OF SHARP BOUNDARY VLASOV FLUID SCREW PINCH EQUILIBRIA 10-129

VLASOV FLUID MODEL WITH ELECTRON PRESSURE. 10-155

INFLUENCE OF SELF FIELDS ON THE VLASOV EQUILIBRIUM AND STABILITY PROPERTIES OF RELATIVISTIC ELECTRON BEAM - PLASMA SYSTEMS 10-59

ON THE SPECTRUM OF THE INHOMOGENEOUS VLASOV EQUATION. 10-92

VLF
VLF RADIO PHENOMENA FOLLOWING A BARIUM SHAPED CHARGE RELEASE AT L APPROXIMATELY EQUALS 6.5. 1-32

VOLCANIC
MAGMA CONTAMINATION WITHIN THE VOLCANIC PILE. ORIGIN OF ANDESITE AND DACITE. COMMENT AND REPLY 11-26

VOLCANOES
ORIGIN OF ANDESITE AND DACITE: EVIDENCE OF MIXING AT GLASS MOUNTAIN IN CALIFORNIA AND OTHER CIRCUM-PACIFIC VOLCANOES. 11-35

VOLTAGE
IMPLOSION MEASUREMENTS IN A HIGH VOLTAGE, LARGE DIAMETER, MEDIUM DENSITY THETA PINCH. 10-57

VOLTAGES
ELECTRICAL BREAKDOWN AND TRACKING CHARACTERISTICS OF PULSED HIGH VOLTAGES IN CRYOGENIC HELIUM AND NITROGEN 8-15

VOLUME
ISOTHERMAL LINEAR AND VOLUME COMPRESSION OF PENTAERYTHRITOL TETRANITRATE (PETN) TO 10 GPA (100 KBAR) AND THE CALCULATED SHOCK COMPRESSION. 15-16

NUMERICAL METHODS. LOS ALAMOS TECHNICAL SERIES, VOLUME 2, PART 1, CHAPTERS 1-5. 21-57

NUMERICAL METHODS. LOS ALAMOS TECHNICAL SERIES, VOLUME 2, PART 2, CHAPTERS 6-8. 21-58

MATRIX MOTION OF LOW VOLUME MATRIX TUNGSTEN/NICKEL/IRON COMPOSITES SINTERED IN A TEMPERATURE GRADIENT. 23-37

BLAST WAVE, VOLUME 7, PART 3. 30-5

VS
PLUTONIUM -242 VS PLUTONIUM -236 AS AN ANALYTICAL TRACER 17-41

VUV
ANALYSIS OF VUV EMISSION IN A THETA PINCH SEEDED WITH NEON AND IRON. 4-1

W
BOOK REVIEW: APPLICABLE FINITE MATHEMATICS, BY D. S. MOORE AND J. W. YACKEL. 21-14

WALL
FIRST WALL MATERIALS PROBLEMS IN FUSION REACTORS. 10-39

HEAT TRANSFER MODEL FOR COMPOSITE FIRST WALL MATERIALS IN A PULSED HIGH BETA CONTROLLED THERMONUCLEAR REACTOR (CTR). 10-46

WALSH
NOISE IMMUNITY IN DIGITAL COMMUNICATION BY USE OF ORTHOGONAL SIGNAL CORRELATION AND WALSH FUNCTIONS. 19-15

WALSH FUNCTION APPROXIMATION FOR NEUTRON TRANSPORT IN X-Y GEOMETRY 24-22

WARFARE
LASL PANEL ON TACTICAL NUCLEAR WARFARE. REPORT OF THE THIRD MEETING, MAY 14-15, 1974. 30-39

WARTIME
ORGANIZING A WARTIME LABORATORY. 30-55

WASHINGTON
LOS ALAMOS PRESENTATION ON LASER FUSION TO THE JOINT COMMITTEE ON ATOMIC ENERGY, WASHINGTON, DC, MARCH 13, 1975. 20-86

WASTE
WASTE MANAGEMENT AND SAFETY CONSIDERATIONS FOR FUTURE LASL D+D (DECONTAMINATION AND DECOMMISSIONING) PROJECTS. 17-62

RADIOACTIVE WASTE OUTPUT FROM LASER -FUSION GENERATING STATIONS DURING NORMAL OPERATIONS. 20-127

DESIGN CRITERIA (REVISED) FOR TRANSURANIC CONTAMINATED SOLID WASTE TREATMENT DEVELOPMENT FACILITY. 30-18

ENVIRONMENTAL EVALUATION OF SOLID RADIOACTIVE WASTE DISPOSAL AREAS. 30-24

RELEVANCE OF NUCLIDE MIGRATION AT OKLO TO THE PROBLEM OF GEOLOGIC STORAGE OF RADIOACTIVE WASTE. 30-78

TRANSURANIC SOLID WASTE STUDIES AT LOS ALAMOS. 30-92

TRITIUM CONTAINMENT AFTER BURIAL OF CONTAMINATED SOLID WASTE. 30-93

WASTES
CHARACTERIZATION OF TRANSURANIC SOLID WASTES FROM A PLUTONIUM PROCESSING FACILITY. 30-11

HYDROGEN AND FOOD FROM NUCLEAR HEAT AND MUNICIPAL WASTES. 30-32

MEASUREMENT OF TRANSURANIC SOLID WASTES AT THE 10-NCI/G ACTIVITY LEVEL. 30-46

MEASUREMENT OF TRANSURANIC SOLID WASTES AT THE 10-NCI/G ACTIVITY LEVEL 30-47

WATER
SILICA IN WATER IN RELATION TO COOLING TOWER OPERATION 2-26

MULTIPLE SCATTERING TREATMENT OF THE SOLVATED ELECTRON IN WATER 4-41

FUNDAMENTAL ASPECTS OF SYSTEMS FOR THE THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER 7-8

LABORATORY AND NUMERICAL STUDIES OF WATER - GRANITE INTERACTIONS AT ELEVATED TEMPERATURE AND PRESSURE 11-25

ANALYSIS OF GEOTHERMAL POWER PLANT WATER USING GAMMA RAYS FROM CAPTURE OF CALIFORNIUM -252 NEUTRONS. 11-3

WATER QUALITY IN VICINITY OF FENTON HILL SITE, 1974 11-62

WATER SUPPLY AT LOS ALAMOS DURING 1974 11-63

GRAVITY WAVES GENERATED BY THE CREATION OF A CYLINDRICAL CAVITY IN WATER 15-12

DOME DEPTH ABOVE A DEPTH CHARGE IN WATER 15-5

HYDROGEN ISOTOPE SEPARATION FROM WATER 20-53

LIMITED EVALUATION OF THE CORROSION OF URANIUM AND WEAPON ASSOCIATED METALS IN SUBSTITUTE OCEAN WATER. 23-33

PERFORMANCE OF SELECTED NONDESTRUCTIVE ASSAY TECHNIQUES ON LWR (LIGHT WATER REACTOR) (PLUTONIUM,URANIUM) DIOXIDE AND URANIUM DIOXIDE FUEL 26-21

EFFECT OF ATMOSPHERIC LIQUID WATER ON ATOMIC BOMBS 30-20

TIME DENSITY STUDY OF WATER IN KIWI-B4 FUEL ELEMENTS WITH VARYING IMPACT VELOCITIES 30-91

WATT
PERFORMANCE OF MULTIHUNDRED WATT FUELED SPHERE ASSEMBLIES IN THE SAFETY SEQUENTIAL TEST PROGRAM. 17-35

WAVE
FAST SOLAR ELECTRONS, INTERPLANETARY PLASMA AND KM WAVE TYPE III RADIO BURSTS OBSERVED FROM THE IMP-6 SPACECRAFT. 1-10

SPECTRAL OBSERVATION OF ELECTROMAGNETIC WAVE DECAY DUE TO THE OTS AND DECAY PARAMETRIC INSTABILITIES. 10-126

TWO DIMENSIONAL STABILITY OF AN ELECTROMAGNETIC WAVE OBLIQUELY INCIDENT ON A NONUNIFORM PLASMA. 10-153

PARTIAL WAVE EXPANSION OF THE INDUCED COLLISION KERNEL. 18-36

SHOCK WAVE TECHNIQUES FOR THE EXAMINATION OF PHASE TRANSITIONS 18-44

NUMERICAL STUDIES OF THE INTERPLAY BETWEEN SELF PHASE MODULATION AND DISPERSION FOR INTENSE PLANE WAVE LASER PULSES. 20-105

SURFACE WAVE ABSORPTION. 20-146

INFLUENCE OF STANDING WAVE FIELDS ON THE LASER DAMAGE RESISTANCE OF DIELECTRIC FILMS. 20-56

ION WAVE TURBULENCE INDUCED BY AN EXPANDING MULTI-COMPONENT PLASMA. 20-61

BHABHA FIRST ORDER WAVE EQUATIONS. 2. MASS AND SPIN COMPOSITION, HAMILTONIANS, AND GENERAL SAKATA-TAKETANI REDUCTIONS 25-21

BHABHA FIRST ORDER WAVE EQUATIONS. 3. POINCARE GENERATORS. 25-22

CONSTRAINTS ON WAVE FUNCTION MODELS OF THE NUCLEON - NUCLEON T MATRIX. 25-37

INELASTIC PROTON SCATTERING AS A TEST OF SURFACE DELTA WAVE FUNCTIONS. 25-98

FREE SPACE BOUNDARY CONDITIONS FOR THE TIME DEPENDENT WAVE EQUATION. 27-7

BLAST WAVE. 30-4

BLAST WAVE, VOLUME 7, PART 3 30-5

WAVES
STANDING WAVES AT LOW MACH NUMBER LAMINAR BOW SHOCKS. 1-28

MACH WAVES AND REFLECTED RAREFACTIONS IN ALUMINUM 4-35

THEORY AND SIMULATION OF THE PARAMETRIC DECAY OF WHISTLER SOLITARY WAVES 10-144

EXPERIMENTAL STUDY OF AREA WAVES IN THE 8 METER SCYLLAC FEEDBACK SECTOR 10-35

GRAVITY WAVES GENERATED BY THE CREATION OF A CYLINDRICAL CAVITY IN WATER 15-12

EFFECT OF RIGIDITY ON SHOCK WAVES IN SOLIDS. 15-7

EFFECT OF VARIABLE ENTROPY IN THE THEORY OF SPHERICALLY CONVERGENT DETONATION WAVES 15-8

REFLECTED RAREFACTIONS, DOUBLE REGULAR REFLECTIONS, AND MACH WAVES IN ALUMINUM AND BERYLLIUM 18-39

THEORETICAL AND EXPERIMENTAL STUDIES OF STRONG SHOCK WAVES IN AIR 18-48

COLLISIONAL DAMPING OF LANGMUIR WAVES IN ONE DIMENSIONAL PLASMA SIMULATIONS 20-19

EXPANSION OF THE NUCLEON - NUCLEON SCATTERING AMPLITUDE IN EXCHANGED PARTIAL WAVES 25-73

WEAK
ENHANCED WEAK FIELD ELECTRICAL RESISTIVITY OF A PARAMETRICALLY UNSTABLE PLASMA 10-32

PARITY VIOLATING ASYMMETRY IN NEUTRON PHOTO CAPTURE BY PROTONS AND THE ISOSPIN STRUCTURE OF THE STRANGENESS CONSERVING NONLEPTONIC WEAK INTERACTIONS 25-155

EXCHANGE EFFECTS FROM WEAK RADIATIVE MESONIC TRANSITIONS IN PARITY VIOLATING NUCLEAR PROCESSES. 25-71

WEAKLY
OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT 1. CANTED AND PARALLEL MIRRORS. 20-107

OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT 2. PARALLEL MIRRORS, MULTITRAVEL. 20-108

OPTICAL DESIGN OF A REACTION CHAMBER FOR WEAKLY ABSORBED LIGHT 3. ASYMMETRIC CONFOCAL RESONATOR 20-109

ELECTROMAGNETIC SCATTERING INSTABILITIES IN WEAKLY INHOMOGENEOUS UNDERDENSE PLASMA 20-35

WEAPON
LIMITED EVALUATION OF THE CORROSION OF URANIUM AND WEAPON ASSOCIATED METALS IN SUBSTITUTE OCEAN WATER. 23-33

LOGNORMAL DAMAGE FUNCTION WITH OFFSET CIRCULAR NORMAL TARGET AND WEAPON LOCATIONS: MEAN AND OTHER MOMENTS 30-43

WEAPONS
MONTE CARLO STUDIES OF TARGET/MODERATOR CONFIGURATIONS FOR THE WEAPONS NEUTRON RESEARCH FACILITY 25-121

NUCLEAR WEAPONS, THEIR ROLE IN U. S. POLITICAL AND MILITARY POSTURE, AND AN EXAMPLE 30-52

WEIGHTS
STATISTICAL WEIGHTS FOR OCTAHEDRAL SPHERICAL TOP MOLECULES 4-65

WELDING
FUSION WELDING OF THIN METAL FOILS 13-5

WELL
IMMUNODIFFUSION IN GELS CONTAINING ERYTHROCYTE ANTIGEN. 1. THEORY FOR DIFFUSION OF ANTISERUM FROM A CIRCULAR WELL. 5-76

REVIEW OF GEOTHERMAL WELL TECHNOLOGY AND THE POTENTIAL APPLICATIONS OF SUBTERRENE ROCK MELTING DEVICES. 11-46

POTENTIAL WELL SHAPES FOR TENSOR TERMS INVOLVING SPIN. 25-177

WELLS
ROCK MELTING HOLE PRODUCTION SYSTEMS FOR EXPLORATORY AND PRODUCTION GEOTHERMAL ENERGY WELLS. 11-47

WEST
PETROLOGY OF DEEP SEATED CUMULATE INCLUSIONS, WEST POTRILLO MOUNTAINS, NEW MEXICO. 11-39

WHAT
WHAT WE HAVE LEARNED ABOUT PLUTONIUM FROM HUMAN DATA. 5-147

WHAT CAN RAPIDITY GAPS TEACH US ABOUT CLUSTERING 25-229

WHAT DO RAPIDITY GAPS SAY ABOUT CLUSTERING 25-230

WHISTLER
THEORY AND SIMULATION OF THE PARAMETRIC DECAY OF WHISTLER SOLITARY WAVES 10-144

WHITE
ACCURACY OF THE WHITE BOUNDARY CONDITION IN R-Z GEOMETRY. 16-1

WHOLE
SOME OBSERVATIONS ON THE COMPARATIVE EFFECTS OF INBREEDING AND WHOLE BODY X RAY EXPOSURE TO SEVENTY GENERATIONS OF MICE 5-134

CARBON 13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF WHOLE CELLS AND OF CYTOCHROME C FROM NEUROSOPORA CRASSA GROWN WITH CARBON 13 METHIONINE 14-3

WICK
PERFORMANCE TESTS OF GRAVITY ASSIST HEAT PIPES WITH SCREEN WICK STRUCTURES 13-12

WIND
HEAT FLUX INSTABILITIES IN THE SOLAR WIND 1-12

SOLAR WIND ELECTRONS 1-24

SOLAR WIND HEAVY ION ABUNDANCES 1-25

SOLAR WIND STREAM EVOLUTION AT LARGE HELIOCENTRIC DISTANCES: EXPERIMENTAL DEMONSTRATION AND THE TEST OF A MGDEL. 1-26

ELECTROMAGNETIC ION BEAM INSTABILITIES IN THE SOLAR WIND 1-5

ELECTRON HEAT FLUX INSTABILITIES IN THE SOLAR WIND. 1-6

EVIDENCE FOR LOCAL ION HEATING IN SOLAR WIND HIGH SPEED STREAMS. 1-8

EVIDENCE FOR THE REGULATION OF SOLAR WIND HEAT FLUX AT 1 AU. 1-9

SOLAR WIND DEVELOPMENT IN THE MIDDLE CORONA. 3-40

SOME OBSERVATIONS OF LOCAL WIND INTERACTIONS IN COMPLEX TERRAIN 11-55

WIND FLOW OVER SIMULATED STRUCTURES FOR MARTIAN AND TERRESTRIAL ATMOSPHERES 16-55

WINDOWS
THIN WINDOWS FOR GASEOUS AND LIQUID TARGETS: AN OPTIMIZATION PROCEDURE 8-56

WIRE
IMPROVED HOT WIRE ELECTROEXPLOSIVE DEVICES. 15-14

WIRES
INVESTIGATION OF THE SOURCES OF ASYMMETRY EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT IN TYPE II TANTALUM WIRES 8-20

OBSERVATION OF ASYMMETRY EFFECTS IN THE VELOCITY OF DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT IN TYPE II TANTALUM WIRES 8-32

WNR
NON-INTERCEPTING POSITION MONITOR FOR THE LAMPF WNR BEAM. 22-33

WORKBOOK
FUNDAMENTALS OF PASSIVE NONDESTRUCTIVE ASSAY OF FISSIONABLE MATERIAL LABORATORY WORKBOOK. 26-7

WORKERS
URANIUM IN THE TISSUE OF OCCUPATIONALLY EXPOSED WORKERS. 5-145

WORLD
WORLD ENERGY RESERVES AND CONSUMPTION 12-22

WREATH
REAL NUMBERS AS A WREATH PRODUCT. 21-68

WT
DUCTILE TO BRITTLE TRANSITION OF URANIUM - 0.75 WT PERCENT TITANIUM PENETRATOR CORES. 23-10

W44
SUPERNOVA REMNANT W44: A GALACTIC GRAVIMETER. 3-44

W44: A BUOYANT SUPERNOVA REMNANT. 3-46

X
PORTABLE FLASH X RAY SYSTEMS APPLICATIONS AND TECHNIQUES 2-20

ANALYSIS OF A SCORPIUS X-1 X RAY SPECTRUM OBTAINED WITH COOLED SILICON (LI) DETECTORS 3-3

RESULTS OF X RAY AND OPTICAL MONITORING OF SCORPIUS X-1 IN 1970. 3-39

X RAY STAR. 3-47

LASER PRODUCED L-SERIES X RAY SPECTRA. 4-34

AGE RESPONSE FOR LINE CHO CHINESE HAMSTER CELLS EXPOSED TO X IRRADIATION AND ALPHA PARTICLES FROM PLUTONIUM. 5-1

SOME OBSERVATIONS ON THE COMPARATIVE EFFECTS OF INBREEDING AND WHOLE BODY X RAY EXPOSURE TO SEVENTY GENERATIONS OF MICE. 5-134

EVIDENCE THAT X IRRADIATION INHIBITS DNA REPLICON INITIATION IN CHINESE HAMSTER CELLS. 5-62

IN VIVO TISSUE ANALYSIS USING MU MESIC X RAYS. 5-79

INITIAL COMPARATIVE RESPONSE OF EXPERIMENTAL TUMORS TO PEAK PIONS AND X RAYS. 5-81

ATOMIC SCATTERING FACTORS FOR X RAYS. 9-3

DISPERSION CORRECTIONS FOR X RAY ATOMIC SCATTERING FACTORS. 9-9

MICRO-CHANNEL PLATE AS A PARALLEL BORE COLLIMATOR FOR SOFT X RAY IMAGING. 19-14

FABRICATION AND CALIBRATION OF THIN PLASTIC SCINTILLATOR X RAY DETECTORS 19-7

NONDESTRUCTIVE FUEL ASSAY OF LASER TARGETS. 1. X RAY METHOD. 20-102

BETA ABSORPTION IN TRITIATED TARGETS AND X RAY COUNTING CORRECTIONS. 20-11

CALCULATION OF X RAY PINHOLE PHOTOGRAPHS. 20-13

REVIEW OF SOFT X RAY LASERS USING CHARGE EXCHANGE. 20-133

X RAY CONTINUUM AND LINE RADIATION FROM PLASMAS PRODUCED BY 10.6 MICROMETER LASER FOCUSED ON FLAT TARGETS. 20-164

X RAY PINHOLE CAMERAS FOR LASER PLASMA EXPERIMENTS. 20-165

FAST FRAMING AND X RAY PINHOLE CAMERA TECHNIQUES FOR STUDY OF LASER GENERATED PLASMAS. 20-44

ON THE ROOTS OF X(M)+-1 IN THE P-ADIC FIELD Q(P). 21-61

USE OF MUONIC X RAYS FOR TISSUE ANALYSIS. 22-54

MUONIC X RAY MEASUREMENTS OF NUCLEAR CHARGE RADII IN THE MASS 60 REGION 25-126

MUONIC X RAYS FROM THE TRANSITION NUCLEI PLATINUM -194, 195, 196. 25-127

X-NEUTRON
CROSS SECTIONS FOR (NEUTRON,X-NEUTRON) REACTIONS BETWEEN 7.5 AND 28 MEV. 25-41

X-Y
WALSH FUNCTION APPROXIMATION FOR NEUTRON TRANSPORT IN X-Y GEOMETRY. 24-22

DISCRETE ORDINATE TO SPHERICAL HARMONIC CONVERSIONS FOR RAY EFFECT MITIGATION IN X-Y GEOMETRY. 24-9

X-0219
SENSITIVITY OF X-0219 TO BULLET IMPACT. 15-24

X-0280
PROPERTIES OF X-0280 AND X-0281 15-23

X-0281
PROPERTIES OF X-0280 AND X-0281 15-23

X-1
ANALYSIS OF A SCORPIUS X-1 X RAY SPECTRUM OBTAINED WITH COOLED SILICON (LI) DETECTORS. 3-3

RESULTS OF X RAY AND OPTICAL MONITORING OF SCORPIUS X-1 IN 1970. 3-39

XENOLITHS
CINDER CONE SEPARATION DISTANCES: IMPLICATIONS FOR THE DEPTH OF FORMATION OF GABBROIC XENOLITHS. 11-8

XENON
SCALING AND EFFICIENT OPERATION OF THE 1730 A XENON LASER. 20-135

ELECTRICAL REQUIREMENTS OF XENON LASERS. 20-33

HALF LIVES OF XENON -129M, XENON -131M, XENON -133M, XENON -133G, AND XENON -135G. 25-90

XN
SPIN LATTICE RELAXATION IN AN AM(XN) SYSTEM: APPLICATION TO CARBON -13 RELAXATION IN ENRICHED MOLECULES. 14-11

XPECT
XPECT: A MONTE CARLO PROGRAM TO PREDICT THE EXPECTED TIME TO NEXT FAILURE IN CONTROLLED THERMONUCLEAR RESEARCH SYSTEMS. 10-156

XV
EXTENSIVE SPATIAL DISTRIBUTION OF 569.4 NM CALCIUM XV EMISSION IN THE SOLAR CORONA DURING THE ECLIPSE OF 1973. 3-15

XV-XXV
PHOTOIONIZATION CROSS SECTIONS AND RADIATIVE RECOMBINATION RATE COEFFICIENTS FOR IRON(XV-XXV) 25-162

XVIII
IDENTIFICATION OF SOLAR FLARE IRON(XVIII) TO IRON(XXIII) EMISSION LINES FROM 2S(N)2P(K)-2S(N-1)2P(K+1) TRANSITIONS. 3-21

XXIII
IDENTIFICATION OF SOLAR FLARE IRON(XVIII) TO IRON(XXIII) EMISSION LINES FROM 2S(N)2P(K)-2S(N-1)2P(K+1) TRANSITIONS. 3-21

X2
EMF'S ACROSS CADMIUM IODIDE - DICADMIUM IODIDE ELECTROLYTES USING ELECTRODES OF BARE TUNGSTEN, MOLTEN CADMIUM, AND MOLTEN GOLD - CADMIUM: BARE ELECTRODE EFFECTS, USE OF N UNEQUAL TO 2, PREMONITORY PHENOMENA AND LIQUID STRUCTURE IN GOLD -CADMIUM, AND THE CADMIUM - CADMIUM(X2) PHASE DIAGRAMS. 7-5

Y-12
CRYOGENIC THERMAL EXPANSION OF Y-12 GRAPHITE FUEL ELEMENTS 30-16

YACKEL
BOOK REVIEW: APPLICABLE FINITE MATHEMATICS, BY D. S. MOORE AND J. W. YACKEL. 21-14

YAG
AMPLIFICATION OF THE 1.32 MICRON LINE IN NEODYMIUM : YAG. 20-5

YAQUI
SINGLE BURST CALCULATIONS WITH YAQUI. 18-46

YIELD
ULTRAVIOLET CHARGE EXCHANGE ENERGY LOSS PARTITION AS A FUNCTION OF BURST ALTITUDE AND YIELD TO MASS RATIO. 4-68

COKING YIELD AND THE ACIDITY OF CARBON BLACK. 23-6

YIELD STRENGTH OF FINE GRAINED VANADIUM PRODUCED BY HIGH RATE PHYSICAL VAPOR DEPOSITION. 23-64

YIELDS
FAST REACTOR FISSION YIELDS FOR URANIUM -233, URANIUM -235, URANIUM -238, AND PLUTONIUM -239 AND DETERMINATION OF BURNUP IN FAST BREEDER REACTOR MIXED OXIDE FUELS. 2-14

NUCLEAR CHARGE DISTRIBUTION IN FISSION SPECTRUM NEUTRON INDUCED FISSION: FRACTIONAL CUMULATIVE YIELDS OF RARE GAS NUCLIDES FROM FISSION OF URANIUM -235 AND URANIUM -238 16-10

INDEPENDENT FISSION YIELDS OF RUBIDIUM AND CESIUM FROM THERMAL NEUTRON INDUCED FISSION OF PLUTONIUM -239. 16-6

YOKIFER
YOKIFER, A TWO DIMENSIONAL HYDRODYNAMICS AND RADIATION TRANSPORT PROGRAM 18-56

YOUNG
DIRECT USE OF YOUNG TABLEAU ALGEBRA TO GENERATE THE CLEBSCH-GORDAN COEFFICIENTS OF SU(2)*. 27-4

YTTRIUM
RECOVERY OF SPALLOGENIC, CARRIER FREE YTTRIUM -88 FOR RADIOISOTOPIC PHOTONEUTRON SOURCES. 7-15

INDUCED PARAMAGNETISM IN URANIUM ALLOYS: A BORON NMR (NUCLEAR MAGNETIC RESONANCE) STUDY OF ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND YTTRIUM TETRABORIDE. 14-8

YTTRIUM -89 (TRITON,PROTON) YTTRIUM -91 REACTION AT E(T) = 20 MEV 25-231

E3 ISOMERS OF YTTRIUM -93 AND SILVER -101. 25-51

Z
EXPLODING LINER INITIATED DENSE Z PINCH. 10-37

CHARACTERISTICS OF HIGH DENSITY THETA PINCHES SEEDED WITH SELECTED HIGH Z ELEMENTS 10-6

PARTIAL CHRONOLOGY OF Z PINCH STUDIES AT LOS ALAMOS SCIENTIFIC LABORATORY, 1952-1975. 10-97

CHARACTERISTICS OF LOW Z FRAGMENTS PRODUCED IN THE INTERACTION OF 800 MEV PROTONS WITH URANIUM. 25-25

DIFFERENTIAL CROSS SECTIONS FOR COHERENT PHOTON SCATTERING BY ELEMENTS Z=2 THROUGH Z=26. 25-48

ELECTRON ELASTIC SCATTERING CROSS SECTIONS FROM 1 KEV TO 100 MEV FOR ELEMENTS Z = 1 TO 100. 25-62

EQUILIBRIUM DEFORMATIONS AND EXCITATION ENERGIES FOR NONCOLLECTIVE STATES IN ODD Z RARE EARTH NUCLEI. 25-67

Z-ALPHA
ESTIMATE OF THE (Z-ALPHA)2 - ALPHA -2 VACUUM POLARIZATION TERM IN MUONIC LEAD. 22-13

ZERO
POOL BOILING HEAT TRANSFER TO LIQUID HELIUM AND LIQUID NITROGEN IN A NEARLY ZERO GRAVITY ENVIRONMENT. 8-36

ZERO PLUS STATES NEAR THE N=20 NEUTRON SHELL FROM ARGON(TRITON,PROTON) REACTIONS 25-232

ZINC
POTENTIAL CONSTANTS OF POTASSIUM ZINC TETRACYANIDE IN THE CRYSTAL LATTICE 4-50

DAMAGE THRESHOLDS IN ZINC SELENIDE, A/R COATED SODIUM CHLORIDE AND MICROMACHINED MIRRORS BY 10.6 MICRON MULTIJOULE, NANOSECOND PULSES 20-21

DEFORMED HARTREE FOCK DESCRIPTION OF THE IRON, NICKEL, AND ZINC ISOTOPES 25-44

ZIRCONIUM
DETERMINATION OF ZIRCONIUM IN PLUTONIUM-ZIRCONIUM ALLOYS 2-11

AXIAL DISTRIBUTIONS OF NIOBIUM-95 AND ZIRCONIUM-95 ISOTOPES IN IRRADIATED URANIUM DIOXIDE - PLUTONIUM DIOXIDE FUEL PINS. 2-3

NEW METHOD FOR COATING MICROSPHERES WITH ZIRCONIUM CARBIDE AND ZIRCONIUM CARBIDE-CARBON GRADED COATS 23-41

NEW METHOD FOR COATING MICROSPHERES WITH ZIRCONIUM CARBIDE AND ZIRCONIUM CARBIDE-CARBON GRADED COATS. 23-42

ZIRCONIUM CARBIDE, A KEY INGREDIENT FOR HIGH TEMPERATURE NUCLEAR FUELS 23-65

ZONE
SEISMICITY OF THE NORTHERN RIO GRANDE RIFT ZONE, NEW MEXICO 11-50

ZT-1
PLASMA PARAMETERS AND STABILITY OF THE ZT-1 PINCH EXPERIMENT 10-102

PLASMA TEMPERATURE MEASUREMENTS ON THE ZT-1 PINCH 10-103

PROGRAMMING AND STABILITY OF THE ZT-1 EXPERIMENT 10-107

STABILITY AND DIFFUSION OF THE ZT-1 REVERSED FIELD PINCH 10-130

STABILITY AND TEMPERATURE MEASUREMENTS ON ZT-1 10-131

DESIGN OF THE ZT-1 TOROIDAL PINCH EXPERIMENT 10-18

ION TEMPERATURE MEASUREMENTS ON THE ZT-1 REVERSED FIELD PINCH 10-66

MAGNETIC ENERGY STORAGE SYSTEM USED IN ZT-1 10-76

☆ U.S. GOVERNMENT PRINTING OFFICE: 1976—677-343/213