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Bibliography on the Dosimetry of Radon and Radon Daughters

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BIBLIOGRAPHY ON THE DOSIMETRY OF RADON AND RADON DAUGHTERS

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BIBLIOGRAPHY ON THE DOSIMETRY OF RADON AND RADON DAUGHTERS

C. F. Holoway J. E. Turner M. L. Johnson A. S. Loeb1

ABSTRACT

This selection of 479 papers through 1976, dealing with various aspects of the dosimetry of radon and its daughters, should be of interest to those concerned with assessing literature on problems associated with uranium mines and mill tailings and with development of criteria for the disposition of sites contaminated with uranium and its decay products. Major topics include background levels, epidemiology, food chains, ingestion, inhalation, metabolic models, pathology, synergistic effects of smoking plus inhalation of radon daughters, soil, standards, uranium mine and mill tailings and contamination of water. The principal elements covered are uranium, radium, radon, polonium, lead and bismuth. The papers are classified into 35 categories, ranging alphabetically from AIR to WORKING LEVEL, each containing up to seven subcategories.

INTRODUCTION

This Bibliography presents a listing of 479 references, mainly through 1976, with information on the dosimetry of radon and its daughters. Publications on monitoring and personnel dosimeters are outside the scope of this work. The included papers deal with radon-daughter aerosols, information obtained from air measurements, the deposition of inhaled radon daughters in the respiratory tract and the many problems associated with estimating doses to various cells, particularly those in the respiratory system. References include information about the thickness and movement of mucus and the irradiation of critical cells by alpha particles, as well as the dynamics of inhaled particulate matter--controversial subjects in the literature for many years. Contributions of animal experiments and human epidemiological studies with workers and the general population are also included in the cited references, as are discussions of the man-rem, the working level and other dosimetric concepts.

The production of the Bibliography was stimulated by current interest in problems associated with uranium mines and mill tailings and with the development of criteria for the disposition of sites contaminated

with radium. The importance of these problems is underscored by active programs in a number of federal and state agencies. References in the Bibliography were also useful in compiling background material for the Workshop on Dosimetry of Radon and Radon Daughters at the Oak Ridge National Laboratory (ORNL) in April 1977. A summary of the Workshop findings is given in the report ORNL-5348.¹

The present Bibliography was selected and compiled to give representative, rather than exhaustive, coverage. It is available as a computerized file for remote terminal searching and printouts via the ORLOOK Program at ORNL and was the nucleus for a review of larger scope.²

Records are arranged alphabetically by author. Each record consists of a maximum of six fields, as follows:

AUTHOR: Because of clerical and tabulating restrictions, only the first two authors of each reference are tabulated. A semicolon following the second name indicates that there are additional authors. Where specific authors are not given, such as with agency and committee reports, the corporate author is included in the author index.

CORPAUTH: This field gives the author's affiliation, sponsoring organization or location. No attempt was made to compile complete information on corporate authors.

TITLE: Titles have been shortened without doing violence to their basic content. By converting symbols such as "Pb" into "Lead," indexing consistency has been improved.

PUB_DESC: The computer field for Publication Description includes journal name and volume, or report acronym and number, and pages but not year. Occasionally, additional information (such as editor names, conference name or number or translation number) is given in this field to facilitate library search for the article.

PUB_DATE: The year of publication is given separately to facilitate computer manipulation of material by date.

CATEGORY: Each paper was classified by a major category and a sub-category, usually on the basis of its major thrust, but frequently on the basis of some special point or contribution made by the paper but not implied by the title. Use of the Category Index should be supplemented

by the Permuted Title Index. Subcategories are shown by the two-tiered, indented structure of the Category Index.

The ten largest categories for the 479 papers cited, with number of papers for each category, are as follows:

<u>Category</u>	<u>No. Papers</u>	<u>Category</u>	<u>No. Papers</u>
Air	62	Lung	20
Pathology	48	Standards	18
Metabolism	41	Tailings	18
Epidemiology	40	Inhalation	17
Ratio	23	Working Level	15

No paper appears in more than one category.

The ten most frequently used words in the authors' titles for the 479 papers cited are as follows:

<u>Title Word</u>	<u>No. Papers</u>	<u>Title Word</u>	<u>No. Papers</u>
Radon	206	Daughters	65
Mines/Miners	115	Dose	53
Uranium	111	Lung	53
Polonium	81	Exposure	50
Lead	73	Cancer	48

Papers selected for this Bibliography are distributed chronologically as follows:

<u>Year</u>	<u>No. Papers</u>	<u>Year</u>	<u>No. Papers</u>
1879	1	1960	3
1925	1	1961	1
1932	1	1962	7
1933	1	1963	6
1935	2	1964	24
1940	1	1965	13
1943	1	1966	15
1944	1	1967	24
1945	1	1968	28
1946	1	1969	34
1949	2	1970	34
1950	4	1971	17
1952	1	1972	36
1953	7	1973	55
1954	5	1974	45
1956	5	1975	44
1957	2	1976	23
1958	6	1977	3
1959	3	Date not available	21
		Total	479

Since this is a selective and not exhaustive Bibliography, research and development needs are not necessarily reflected in the number of papers for a given category, title or year. Papers on the dosimetry of radon and its daughters, as are cited in papers and reports of ICRP committee members, have reached a degree of mathematical refinement which probably reflects accurately not only the interests of the members but of the world literature on the subject over the past 50 years.

ACKNOWLEDGMENT

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 CORPAUTH: EPA
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 CORPAUTH: Chiba
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 the Atmosphere
 PUB DESC: Phys. Behav. Radioact. Contam. in
 Atmos., IAEA
 CATEGORY: AIR; Polonium

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 CORPAUTH: Chiba
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 Dusts at Various Temperatures
 PUB DESC: Health Physics 17:340-341
 PUB DATE: 1969
 CATEGORY: AIR; Polonium

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 AUTHOR: Ackery, D.M.; Goddard, B.A.
 CORPAUTH: Southampton, England
 TITLE: Lung Dosimetry: Anatomic and Physiologic
 Considerations
 PUB DESC: HEW/FDA-76-8044, pp. 464-474
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 CATEGORY: DOSIMETRY; Lung

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 AUTHOR: Adams, N.; Spoor, N.L.
 CORPAUTH: Harwell
 TITLE: Maximum Permissible Concentrations of
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 PUB DESC: NRPB-R9
 PUB DATE: 1973
 CATEGORY: STANDARDS; Uranium

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 AUTHOR: Afanasev, M.K.; Krisyuk, E.M.
 TITLE: Standards for Natural Radioactive
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 PUB DESC: Gig. Sanit. 32:64-67 (Tr=TT-67-51409)
 PUB DATE: 1967
 CATEGORY: BACKGROUND; Buildings

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 AUTHOR: Altshuler, B.; Nelson, N.
 CORPAUTH: NYU
 TITLE: Estimation of Lung Tissue Dose from the
 Inhalation of Radon and Daughters
 PUB DESC: Health Physics 10:1137-1161
 PUB DATE: 1964
 CATEGORY: DOSIMETRY; Radon

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 PUB DATE: 1968
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 PUB DESC: CONF-741018, pp. 355-360 (Population
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 CATEGORY: PATHOLOGY; Radon

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AUTHOR: Cohen, N.; Kneip, T.J.
 TITLE: Method for Analysis of Lead-210 in Urine
 of Miners
 PUB DESC: Health Physics 17:125-130
 PUB DATE: 1969
 CATEGORY: METABOLISM; Lead

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AUTHOR: Cohn, S.H.; Skow, R.K.;
 TITLE: Radon Inhalation Studies in Rats
 PUB DESC: Archives Industrial Hygiene 7:508-515
 PUB DATE: 1953
 CATEGORY: INHALATION; Radon

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AUTHOR: Comey, D.D.
 CORPAUTH: Chicago
 TITLE: Legacy of Uranium Tailings
 PUB DESC: Bulletin Atomic Scientists 31:42-45
 PUB DATE: 1975
 CATEGORY: TAILINGS

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AUTHOR: Committee 2 Task Group, Snyder, W.S.
 (Chairman)
 TITLE: Report of Task Group on Reference Man
 PUB DESC: ICRP No. 23, p. 390
 PUB DATE: 1975
 CATEGORY: INHALATION; Lead

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AUTHOR: Congress, U.S., House Rep.
 TITLE: Radiation Exposure of Uranium Miners,
 Testimony to JCAE, June 5-9
 PUB DESC: Atomic Energy Clearinghouse 13:18-30
 PUB DATE: 1967
 CATEGORY: STANDARDS; Radon

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AUTHOR: Congress, U.S., House Rep.
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 PUB DESC: Atomic Energy Clearinghouse 13:30-33
 PUB DATE: 1967
 CATEGORY: STANDARDS; Radon

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AUTHOR: Cook, J.E.
 TITLE: Uranium Mining-Nature of the Dosimetry
 Problem
 PUB DESC: AAEC/E-272
 PUB DATE: 1973
 CATEGORY: DOSIMETRY; Uranium

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AUTHOR: Cooper, J.A.; Jackson, P.O.;
 TITLE: Characteristics of Attached Radon-222
 Daughters Under Laboratory and Field
 Conditions vs Underground Mines
 PUB DESC: PB-237557
 PUB DATE: 1974
 CATEGORY: AIR; Radon

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AUTHOR: Cooper, W.C.
 CORPAUTH: USPHS, Washington
 TITLE: Epidemiological Study of Mortality and
 Lung Neoplasms in U.S. Uranium Miners
 PUB DESC: J. Occupational Medicine 4:614-627
 PUB DATE: 1962
 CATEGORY: EPIDEMIOLOGY; Uranium

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AUTHOR: Cox, W.M.; Blanchard, R.L.;
 TITLE: Relation of Radon Concentration in
 Atmosphere to Moisture in Soils and
 Atmosphere Thermal
 PUB DESC: Advances in Chem. Series 93:436-446
 PUB DATE: 1970
 CATEGORY: SOIL; Radon

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AUTHOR: Crockett, P.W.
 CORPAUTH: NTIS, Virginia
 TITLE: Occupational Health: Radioactivity.
 Bibliography with Abstracts
 PUB DESC: NTIS/PS-75/565 Pt.4, Report for
 1964-1965, 1975
 CATEGORY: HAZARD; Nuclear

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AUTHOR: Cross, F.T.; Bloomster, C.H.;
 TITLE: Evaluation of Methods for Setting
 Occupational Health Standards for Uranium
 Miners
 PUB DESC: PB-237744. Final Report June
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 PUB DATE: 1974
 CATEGORY: STANDARDS; Uranium

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AUTHOR: Crozier, W.D.; Biles, N.
 TITLE: Measurement of Radon-220 in the
 Atmosphere Below 50 Centimeters
 PUB DESC: Journal of Geophysical Research
 71:4735-4741
 PUB DATE: 1966
 CATEGORY: AIR; Radon

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AUTHOR: Csiky, I.
 CORPAUTH: Nat. Inst. Pub. Health
 TITLE: Radioactivity of Some Hungarian
 Spring-Waters and Dose from Their Consumption
 PUB DESC: Health Physics Probs. Internal Contam.
 pp. 441-444
 PUB DATE: 1973
 CATEGORY: RATIO; Radium/Radon

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AUTHOR: Cuddihy, R.G.
 TITLE: Respiratory Tract Retention of Inhaled
 Particles in Experimental Animals
 PUB DESC: LF-56, pp. 137-142
 PUB DATE: 1976
 CATEGORY: LUNG; Model

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 TITLE: Exhalation of Radon from the Earth
 PUB DESC: Terrest. Magnet. Atmos. Elect. 51:37-44
 PUB DATE: 1946
 CATEGORY: SOIL; Radon

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AUTHOR: Culot, M.V.J.; Olson, H.G.;
 TITLE: Effective Diffusion Coefficient of Radon
 in Concrete, Theory and Method for Field
 Measure
 PUB DESC: Health Physics 30:263-270
 PUB DATE: 1976
 CATEGORY: DIFFUSION; Coefficient

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AUTHOR: Culot, M.V.J.; Schiager, K.J.
 CORPAUTH: Fort Collins
 TITLE: Final Rept on Research Supported by EPA,
 AEC
 PUB DESC: COO-2273-1, 239 pp.
 CATEGORY: TAILINGS

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AUTHOR: Czegledi, P.; Dobrovolszky, A.;
 CORPAUTH: Budapest
 TITLE: Natural Lead-210 and Polonium-210 in
 Young Human Bones
 PUB DESC: Isotopenpraxis 6:422-423
 PUB DATE: 1970
 CATEGORY: RATIO; Lead/Polonium

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AUTHOR: D'Souza, T.J.; Mistry, K.E.
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 Translocation of Polonium-210, Lead-210 in
 Plants
 PUB DESC: CONF-660341 India Symp., pp. 381-401
 PUB DATE: 1966
 CATEGORY: VEGETATION

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AUTHOR: Dahl, A.H.; Schiager, K.J.
 CORPAUTH: Fort Collins
 TITLE: Radon Progeny Inhalation Study as
 Applicable to Uranium Mining Operations
 PUB DESC: COO-1500-3 (Ann. Rept. 2 for Calendar)
 PUB DATE: 1966
 CATEGORY: INHALATION; Radon

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AUTHOR: Davis, R.K.
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 on Rats 1. Gross Effects and Metabolism of
 UCI/KG Doses
 PUB DESC: MLM-961
 PUB DATE: 1954
 CATEGORY: PATHOLOGY; Polonium

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AUTHOR: Department of Labor, U.S.
 TITLE: Standards for Uranium Mining
 PUB DESC: Federal Register 67-6687, June 12, 1967
 PUB DATE: 1967
 CATEGORY: STANDARDS

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AUTHOR: Desai, V.S.; Sitken, M.J.
 CORPAUTH: Oxford
 TITLE: Radon Escape from Pottery, Effect of
 Wetness
 PUB DESC: Archaeometry 16
 PUB DATE: 1974
 CATEGORY: AIR; Radon

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AUTHOR: Devilliers, A.J.; Windish, J.P.
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 Community. 1. Radiation, Dust, Mortality
 Experience
 PUB DESC: British J. Industrial Medicine
 21:94-109
 PUB DATE: 1964
 CATEGORY: EPIDEMIOLOGY

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AUTHOR: Djuric, D.; Panow, D.
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 of Exposure to Radon
 PUB DESC: Rad. Health Safety in Mining, Milling
 2:431-450
 PUB DATE: 1964
 CATEGORY: POLONIUM

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AUTHOR: Dobeln, W.; Lindell, B.
 TITLE: Radon Contamination Following Ingestion
 PUB DESC: Arkiv foer Fysik 27:531-571
 PUB DATE: 1965
 CATEGORY: INGESTION; Radon

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AUTHOR: Donaldson, A.W.
 CORPAUTH: HEW
 TITLE: Epidemiology of Lung Cancer Among Uranium
 Miners
 PUB DESC: Health Physics 16:563-569
 PUB DATE: 1969
 CATEGORY: EPIDEMIOLOGY

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AUTHOR: Drew, R.T.
 CORPAUTH: NYU
 TITLE: Lead-212 Distribution Studies in the Rat
 PUB DESC: Health Physics 20:617-623
 PUB DATE: 1971
 CATEGORY: METABOLISM; Lead

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AUTHOR: Drew, R.T.; Eisenbud, M.
 CORPAUTH: NYU
 TITLE: Pulmonary Dose from Radon-220 Received by
 Indigenous Rodents of Morro do Ferro, Brazil
 PUB DESC: Radiation Research 42:270-281
 PUB DATE: 1970
 CATEGORY: BACKGROUND; Radon

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AUTHOR: Droessmar, F.
 TITLE: Polonium in Tobacco
 PUB DESC: Naturwissenschaften Rundsch. 20:338
 PUB DATE: 1967
 CATEGORY: SMOKING; Polonium

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AUTHOR: Duggan, M.J.
 CORPAUTH: Sutton, England
 TITLE: Hazard from Airborne Radon-220 and Its
 Daughter Products
 PUB DESC: Health Physics 24:301-310
 PUB DATE: 1973
 CATEGORY: AIR; Radon

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AUTHOR: Duggan, M.J.; Howell, D.M.;
 TITLE: Concentrations of Radon in Coal Mines in
 England and Scotland
 PUB DESC: Nature 219:1149
 PUB DATE: 1968
 CATEGORY: AIR; Radon

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AUTHOR: Duggan, M.J.; Howell, D.M.
 CORPAUTH: Sutton, England
 TITLE: Measurement of Unattached Fraction of
 Airborne Polonium-210
 PUB DESC: Health Physics 17:423-427
 PUB DATE: 1969
 CATEGORY: AIR; Polonium

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AUTHOR: Duggan, M.J.; Soilleux, P.J.;
 TITLE: Exposure of United Kingdom Miners to Radon
 PUB DESC: British J. Industrial Medicine
 27:106-109
 PUB DATE: 1970
 CATEGORY: EPIDEMIOLOGY

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AUTHOR: Duncan, D.L.; Eadie, G.G.
 CORPAUTH: EPA, Las Vegas
 TITLE: Environmental Surveys of Uranium Tailings
 Pile and Surrounding Areas, Salt Lake City,
 Utah (Final Report)
 PUB DESC: EPA-520/6-74-006
 PUB DATE: 1974
 CATEGORY: TAILINGS

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 TITLE: Lung Cancer Mortality Experience on Men
 in Certain Occupations in California
 PUB DESC: American J. Public Health 50:1475
 PUB DATE: 1960
 CATEGORY: EPIDEMIOLOGY

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AUTHOR: Duric, D.; Kilibarda, M.
 CORPAUTH: Belgrade, Serbia
 TITLE: Distribution and Elimination of Polonium
 PUB DESC: Arh. Hig. Rada Toksikol. 14:317-325
 PUB DATE: 1964
 CATEGORY: METABOLISM; Polonium

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AUTHOR: Dyck, W.; Smith, A.Y.
 TITLE: Use of Radon-222 in Surface Waters for
 Uranium Geochemical Prospecting
 PUB DESC: Canadian Mining Journal 89:100-103
 PUB DATE: 1968
 CATEGORY: WATER; Radon

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AUTHOR: Eckerman, K.F.; Rundo, J.
 TITLE: Measure of Lead-210 & Lead-210/Radium-226
 Ratios in Human Bone in-Vitro
 PUB DESC: ANL-7960 (Pt.2)
 PUB DATE: 1972
 CATEGORY: RATIO; Radium/Lead

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AUTHOR: Efimova, A.N.; Vorobaev, A.M.
 TITLE: Determination of Lead-210 in the Air
 PUB DESC: Gig. Sanit. 1:69-71
 PUB DATE: 1972
 CATEGORY: AIR; Lead

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AUTHOR: Eisenbud, M.; Laurer, G.R.;
 CORPAUTH: NYU
 TITLE: In-Vivo Measure of Lead-210 as an
 Indicator of Cumulative Radon Daughter
 Exposure in Uranium Miners
 PUB DESC: Health Physics 16:637-646
 PUB DATE: 1969
 CATEGORY: WORK LEVEL

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AUTHOR: Engel, S.
 CORPAUTH: Royal Coll. Surg.
 TITLE: Comparative Anatomy and Pulmonary
 Air-Cleansing Mechanisms in Man and Certain
 Experimental Animals
 PUB DESC: Health Physics 10:967-971
 PUB DATE: 1964
 CATEGORY: LUNG; Model

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AUTHOR: EPA, Washington, DC
 TITLE: Preliminary Findings Radon Daughter
 Levels in Structures Constructed on Reclaimed
 Florida Phosphate Lands
 PUB DESC: ORP/CSD-75-4
 PUB DATE: 1975
 CATEGORY: TAILINGS

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AUTHOR: Ermilov, A.P.; Klinov, V.V.;
 TITLE: Wall Influence on Free Polonium-218 and
 Lead-214 Distribution in a Closed Volume of
 Air
 PUB DESC: Atomic Energy (USSR) 25:60-61
 PUB DATE: 1968
 CATEGORY: AIR; Polonium

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AUTHOR: Evans, R.D.
 TITLE: Protection of Radium Dial Workers and
 Radiologists from Injury by Radium
 PUB DESC: Journal Industrial Hygiene and
 Toxicology 25:253-274
 PUB DATE: 1943
 CATEGORY: PATHOLOGY; Radium

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AUTHOR: Evans, R.D.
 TITLE: Radium and Mesothorium Poisoning,
 Dosimetry and Instrumentation Techniques
 PUB DESC: MIT-952-4, pp. 76-111
 PUB DATE: 1967
 CATEGORY: PATHOLOGY; Radon

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AUTHOR: Evans, R.D.
 TITLE: Engineers Guide to the Elementary
 Behavior of Radon Daughters
 PUB DESC: Health Physics 17:229-252
 PUB DATE: 1969
 CATEGORY: RADON

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AUTHOR: Evans, R.D.; Goodman, C.
 TITLE: Determination of Thoron Gas Content of
 Air and Its Bearing on Lung Cancer Hazard in
 Industry
 PUB DESC: J. Industrial Hygiene Toxicology
 22:89-99
 PUB DATE: 1940
 CATEGORY: STANDARDS

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AUTHOR: Eve, I.S.
 TITLE: Some Suggested Maximum Permissible
 Intakes of Uranium
 PUB DESC: Health Physics 10:773-776
 PUB DATE: 1964
 CATEGORY: STANDARDS; ICRP

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AUTHOR: Federal Radiation Council
 TITLE: Guidance for the Control of Radiation
 Hazards in Uranium Mining
 PUB DESC: Report no. 8 Revised, 60 pages, 28
 References
 PUB DATE: 1967
 CATEGORY: WORK LEVEL

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AUTHOR: Feher, I.
 CORPAUTH: Budapest
 TITLE: Some Remarks on Natural Radiation Burden
 of Population
 PUB DESC: KFKI-75-29, 7 pp.
 PUB DATE: 1975
 CATEGORY: BACKGROUND; Buildings

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AUTHOR: Fernau, A.; Smereker, H.
 TITLE: Ueber Verbleiben Radioakt. Substanz im
 Organismus Bei Radium-Emanation
 PUB DESC: Strahlentherapie 46:365-373
 PUB DATE: 1933
 CATEGORY: INHALATION; Radon

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AUTHOR: Perri, E.S.; Christiansen, H.
 TITLE: Lead-210 Tobacco and Cigarette Smoke
 PUB DESC: Public Health Reports 82:828-
 PUB DATE: 1967
 CATEGORY: SMOKING; Lead

<121>

AUTHOR: Filipy, R.E.; Stuart, B.O.;
 TITLE: Effects of Inhaled Uranium Mine Air
 Contaminants in Beagle Dogs
 PUB DESC: Exptl. Lung Cancer, E. Karbe, Ed.
 (Springer-Verlag)
 PUB DATE: 1974
 CATEGORY: CORRELATION; Biological

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AUTHOR: Findeisen, W.
 TITLE: Ueber das Absetzen Kleiner, in der Luft
 Suspend. Teilchen in Menschlichen Lunge Bei
 der Atmung
 PUB DESC: Archiv. Gesamte Physiologie
 PUB DATE: 1935
 CATEGORY: LUNG; Model

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AUTHOR: Findel, M.P.
 TITLE: Toxicity of Polonium-210 in Mice. 1.
 Thirty Day LD50, Retention and Distribution
 PUB DESC: Amer. J. Roentgenol. Rad. Ther. Nucl.
 Med. 70, 477
 PUB DATE: 1953
 CATEGORY: PATHOLOGY; Polonium

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AUTHOR: Fink, R.M. (ed.)
 TITLE: Biological Studies with Polonium, Radium
 and Plutonium
 PUB DESC: Natl. Nucl. En. Ser., Manhattan, Div.
 8, 411 pp.
 PUB DATE: 1950
 CATEGORY: PATHOLOGY; Comparative

<125>

AUTHOR: Fink, R.M.; Cole, K.S.
 CORPAUTH: University of Chicago
 TITLE: Radium/Plutonium, Polonium/Plutonium
 Ratios
 PUB DESC: CN-3167, pp. 46-54 (Conf. on Pu,
 Nickson, J.J., ed)
 PUB DATE: 1945
 CATEGORY: PATHOLOGY; Polonium

<126>

AUTHOR: Folsom, T.R.; Beasley, T.M.
 CORPAUTH: Scripps Inst.
 TITLE: Contributions from Polonium-210 to
 Natural Radiation Environment of Marine
 Organisms
 PUB DESC: Interact. Rad. Contam. Const. Marine
 Env. (IAEA)
 PUB DATE: 1972
 CATEGORY: DOSIMETRY; Polonium

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AUTHOR: Foreman, H.; Moss, W.;
 TITLE: Clinical Experiences with Radioactive
 Materials
 PUB DESC: Amer. J. Roentgen. Radium Ther. Nucl.
 Med. 79:1071-1079
 PUB DATE: 1958
 CATEGORY: METABOLISM; Polonium

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AUTHOR: Francis, C.W.; Chester, G.
 TITLE: Determination of Lead-210 Mean Residence
 Time in the Atmosphere
 PUB DESC: Environmental Science and Technology
 4:586-589
 PUB DATE: 1970
 CATEGORY: AIR; Lead

<129>

AUTHOR: Franklin, J.C.; Marguardt, R.P.
 CORPAUTH: Bureau of Mines, Washington
 TITLE: Continuous Radon Gas Survey of the
 Twilight Mine
 PUB DESC: BM-TPR-93, 13
 PUB DATE: 1976
 CATEGORY: AIR; Radon

<130>

AUTHOR: Fry, L.M.; Menon, K.K.
 TITLE: Determination of Tropospheric Residence
 Time of Lead-210
 PUB DATE: 1962
 CATEGORY: AIR; Lead

<131>

AUTHOR: Fuchs, G.
 CORPAUTH: Vienna
 TITLE: Radiation in Pathogenesis of Bronchial
 Carcinoma
 PUB DESC: Krebsarzt 20:271-273
 PUB DATE: 1965
 CATEGORY: HAZARD; Nuclear

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<132>

AUTHOR: Fujimoto, K.; Abe, S.
 CORPAUTH: Chiba
 TITLE: Outdoor and Indoor Doses
 PUB DESC: NIRS-M, pp. 77-79
 PUB DATE: 1975
 CATEGORY: BACKGROUND; Buildings

<133>

AUTHOR: Furnica, G.H.; Toader, M.
 CORPAUTH: Public Health Inst., Bucharest
 TITLE: Eval. of Lead-210, Bismuth-210, and
 Polonium-210 Rat Organ Burdens from
 Respiratory Radon and Daughters
 PUB DESC: Asses. Rad. Contam. in Man pp. 543-562
 (IAEA Symp)
 CATEGORY: METABOLISM; Bismuth

<134>

AUTHOR: Gabrysh, A.F.; Davis, F.J.
 TITLE: Radon Released From Concrete in Radiant
 Heating
 PUB DESC: Nucleonics 13:50
 CATEGORY: BACKGROUND; Buildings

<135>

AUTHOR: Gammage, R.B.; Kerr, G.D.;
 CORPAUTH: ORNL
 TITLE: Exploration Study of the Use of TSEE
 Dosimeters in Radon Monitoring
 PUB DESC: Health Physics 30:145-148
 PUB DATE: 1976
 CATEGORY: MONITORING; Radon

<136>

AUTHOR: Gastineau, R.M.; Walsh, P.J.
 CORPAUTH: Dept. Army
 TITLE: Thickness of Bronchial Epithelium with
 Relation to Exposure of Radon
 PUB DESC: Health Physics 23:857-860
 PUB DATE: 1972
 CATEGORY: LUNG; Model

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AUTHOR: Gemesi, J.; Szy, D.
 TITLE: Radon-222 Content in the Internal
 Atmosphere of Hungarian Residential Buildings
 PUB DESC: The Natural Radon Environment 2:
 751-756
 PUB DATE: 1973
 CATEGORY: BACKGROUND; Radon

<138>

AUTHOR: General Accounting Office, US
 TITLE: Controlling the Radiation Hazard from
 Uranium Mill Tailings
 PUB DESC: Report to Congress by Comptroller
 General, U.S.
 PUB DATE: 1975
 CATEGORY: TAILINGS

<139>

AUTHOR: George, A.C.
 CORPAUTH: HASL
 TITLE: Indoor and Outdoor Measure of Natural
 Radon and Daughters in New York City Air
 PUB DESC: Natural Radiation Environment 2:741-750
 PUB DATE: 1972
 CATEGORY: BACKGROUND

<140>

AUTHOR: George, A.C.; Breslin, A.J.
 CORPAUTH: HASL
 TITLE: Deposition of Natural Radon Daughters in
 Human Subjects
 PUB DESC: Health Physics 13:375-378
 PUB DATE: 1967
 CATEGORY: DOSIMETRY; Lung

<141>

AUTHOR: George, A.C.; Breslin, A.J.
 CORPAUTH: HASL
 TITLE: Deposition of Radon Daughters in Humans
 Exposed to Uranium Mine Atmospheres
 PUB DESC: Health Physics 17:115-124
 PUB DATE: 1969
 CATEGORY: INHALATION; Radon

<142>

AUTHOR: George, A.C.; Hinchliffe, L.
 CORPAUTH: HASL
 TITLE: Measurements of Uncombined Radon
 Daughters in Uranium Mines
 PUB DESC: Health Physics 23:791-803
 PUB DATE: 1972
 CATEGORY: AIR; Radon

<143>

AUTHOR: George, K.P.
 CORPAUTH: Bhabha
 TITLE: Investig on Human Populations Residing in
 High Background Radiation Areas of Kerala and
 Adjoin Reg.
 PUB DESC: Biol. and Envtl. Eff. Low-Level Rad.
 2:325-329
 PUB DATE: 1976
 CATEGORY: BACKGROUND

<144>

AUTHOR: Gesell, T.F.
 CORPAUTH: NERC, Las Vegas
 TITLE: Radiological Health Aspects of Radon-222
 in Liquefied Petroleum Gas
 PUB DESC: CONF-730915 (Symposium on Noble Gases)
 PUB DATE: 1973
 CATEGORY: INHALATION; Radon

<145>

AUTHOR: Gesell, T.F.
 CORPAUTH: University of Texas
 TITLE: Estimation of Dose Equivalent to U.S.
 Population from Radon in Liquefied Petroleum
 Gas
 PUB DESC: CONF-741018, pp. 347-354 (Pop.
 Exposure, Knox. Symp.)
 PUB DATE: 1974
 CATEGORY: DOSIMETRY; Radon

<146>

AUTHOR: Gloebel, B.; Muth, H.;
 TITLE: Intake and Excretion of the Natural
 Radionuclides Lead-210 and Polonium-210 by
 Humans
 PUB DESC: Strahlentherapie 131:218-226
 PUB DATE: 1966
 CATEGORY: METABOLISM; Lead

<147>

AUTHOR: Goldin, A.S.
 TITLE: Radiation Levels Inside and Outside
 Buildings
 PUB DESC: HASL-269, pp. 47-56
 PUB DATE: 1972
 CATEGORY: BACKGROUND; Buildings

<148>

AUTHOR: Goldsmith, W.A.
 TITLE: Radiological Aspects of Inactive Uranium
 Milling Sites: An Overview
 PUB DESC: Nuclear Safety 17:722-732
 PUB DATE: 1976
 CATEGORY: TAILINGS

<149>

AUTHOR: Goldsmith, W.A.; Haywood, P.F.;
 TITLE: Guidelines for Cleanup of Uranium
 Tailings from Inactive Mills
 PUB DESC: CONF-76020
 PUB DATE: 1975
 CATEGORY: TAILINGS

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AUTHOR: Gornak, K.A.; Ryumshina, T.A.
 CORPAUTH: Moscow
 TITLE: Redox Enzyme Activity in Liver from
 Internal Use of Radon Water
 PUB DESC: Byull. Eksp. Biol. Med. 71:115-119
 PUB DATE: 1971
 CATEGORY: DOSE; Response

<151>

AUTHOR: Gotchy, R.L.; Schiager, K.J.
 TITLE: Bioassay Meth. for Est. Current Exposure
 to Short-Lived Radon Daughters
 PUB DESC: Health Physics 17:199-218
 PUB DATE: 1969
 CATEGORY: WORK LEVEL

<152>

AUTHOR: Groer, P.G.; Evans, R.D.;
 TITLE: Instant Working Level Meter for Uranium
 Mines
 PUB DESC: Health Physics 24:387-395
 PUB DATE: 1973
 CATEGORY: WORK LEVEL

<153>

AUTHOR: Grossman, B.N.; Little, J.B.;
 CORPAUTH: Harvard
 TITLE: Role of Carrier Particles in Induction of
 Bronchial Cancer in Hamsters by Polonium-210
 PUB DESC: Radiation Research 47:253-254
 PUB DATE: 1971
 CATEGORY: PATHOLOGY; Polonium

<154>

AUTHOR: Gusarov, I.I.
 TITLE: Method of Assessing Extent of Radiation
 Hazards With Simultaneous Presence of Air
 Radon-222 and Radon-220 Daughters
 PUB DESC: Gig. Sanit. 4:68-71
 PUB DATE: 1967
 CATEGORY: AIR; Radon

<155>

AUTHOR: Gusarov, I.I.; Abramov, V.I.;
 TITLE: Method for Determination of Radon in
 Exhaled Air
 PUB DESC: Hygiene and Sanitation (USSR) 8:237-243
 PUB DATE: 1967
 CATEGORY: AIR; Radon

<156>

AUTHOR: Gusarov, I.I.; Andreev, S.V.
 TITLE: MPC's of Radon, Thoron, Actinium and
 Daughters in Water and Air
 PUB DESC: Gigiena i Sanitariia 2:55-58
 PUB DATE: 1973
 CATEGORY: STANDARDS

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AUTHOR: Gusarov, I.I.; Lyapidevskii, V.K.
 TITLE: Method of Determining Doses in Inhalation
 Products of Radon Decay
 PUB DESC: Atomic Energy 10
 PUB DATE: 1961
 CATEGORY: DOSIMETRY; Radon

<158>

AUTHOR: Haerting, F.H.; Hesse, W.
 TITLE: Der Lungenkrebs, die Bergkrankheit in den
 Schneeberger Gruben
 PUB DESC: Vierteljahresschrift fuer Gerichtliche
 Medizin und Oeffentliches Sanitaetswesen 31:
 313-337
 PUB DATE: 1879
 CATEGORY: EPIDEMIOLOGY; Uranium

<159>

AUTHOR: Haider, B.; Jacobi, W.
 TITLE: Long-term Measurements of Radon Daughter
 Activity in Mines
 PUB DESC: CONF-730907-P2 (3rd IRPA)
 PUB DATE: 1968
 CATEGORY: AIR; Radon

<160>

AUTHOR: Hamard, J.; Beau, P.G.;
 TITLE: Maximum Permissible Concentration of
 Radon-222 in Air
 PUB DESC: CEA-R-3583 (LIB/TRANS-202)
 CATEGORY: DOSIMETRY; Radon

<161>

AUTHOR: Hans, J.M.; Douglas, R.L.
 CORPAUTH: Las Vegas
 TITLE: Rad Survey of Dwellings in Cane Valley,
 Arizona and Utah for Use of Uranium Mill
 Tailings
 PUB DESC: PB-245869, 43 pp.
 PUB DATE: 1975
 CATEGORY: TAILINGS

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AUTHOR: Hague, A.K.M.M.
 TITLE: Energy Expended by Alpha Particles in
 Lung Tissue
 PUB DESC: British Journal of Applied Physics
 17:905, 1966
 CATEGORY: DOSIMETRY; Micro

<163>

AUTHOR: Hague, A.K.M.M.; Collinson, A.
 CORPAUTH: Borough Polytech, London
 TITLE: Radiation Dose to Respiratory System Due
 to Radon and Its Daughter Products
 PUB DESC: Health Physics 13:431-443
 PUB DATE: 1967
 CATEGORY: DOSIMETRY; Lung

<164>

AUTHOR: Harley, J.H.
 CORPAUTH: HASL
 TITLE: Environmental Radon
 PUB DESC: CONF-730915 (Symposium on Noble Gases)
 PUB DATE: 1973
 CATEGORY: BACKGROUND; Radon

<165>

AUTHOR: Harley, J.H.
 CORPAUTH: HASL
 TITLE: Permissible Levels for Occupational
 Exposure to Radon Daughters
 PUB DESC: Health Physics 27:593-598
 PUB DATE: 1974
 CATEGORY: WORK LEVEL

<166>

AUTHOR: Harley, J.H.
 CORPAUTH: ERDA
 TITLE: Assessment of Risks in the Nuclear
 Environment: Mining, Milling, Fuel Fabrication
 PUB DESC: HPS Conf. on Environmental Nucl.
 Impact, 8-9 April, Chicago
 PUB DATE: 1976
 CATEGORY: HAZARD; Nuclear

<167>

AUTHOR: Harley, J.H.; Jetter, E.
 TITLE: Elimination of Radon from the Body
 PUB DESC: HASL-32
 PUB DATE: 1958
 CATEGORY: METABOLISM; Radon

<168>

AUTHOR: Harley, N.H.; Pasternack, B.S.
 TITLE: Rapid Estimation of Radon Daughter
 Working Levels when Daughter Equilibrium is
 Unknown
 PUB DESC: Health Physics 17:109-114
 PUB DATE: 1969
 CATEGORY: WORK LEVEL

<169>

<169>

AUTHOR: Harley, N.H.; Pasternack, B.S.
 CORPAUTH: NYU
 TITLE: Experimental Absorption Applied to Lung
 Dose from Thoron (Radon-220) Daughters
 PUB DESC: Health Physics 24:379-386
 PUB DATE: 1973
 CATEGORY: DOSIMETRY; Radon

<170>

AUTHOR: Harris, S.J.
 TITLE: Radon Levels in Mines in New York State
 PUB DESC: Archives Ind. Hyg. Occup. Medicine
 10:54-60
 PUB DATE: 1954
 CATEGORY: AIR; Radon

<171>

AUTHOR: Hartwig, S.
 CORPAUTH: University of Freiburg
 TITLE: Comment on Paper by Poet, Moore, Martell:
 "Pb210, Bi210, Po210 in the Atmosphere:
 Accurate Ratio Measure"
 PUB DESC: Journal Geophysical Research
 78:7155-7156
 PUB DATE: 1973
 CATEGORY: RATIO

<172>

AUTHOR: Havens, R.; Dean, K.C.
 CORPAUTH: Bur. Mines, Salt Lake City
 TITLE: Chemical Stabilization of the Uranium
 Tailings at Tuba City, Arizona
 PUB DESC: U.S. Bur. of Mines Rept. of Investig
 No. 7288,
 PUB DATE: 1969
 CATEGORY: TAILINGS

<173>

AUTHOR: Havlovic, V.
 CORPAUTH: Charles Univ.
 TITLE: Natural Radioactive Aerosols in
 Ground-Level Air...Radiological Exposure of
 Population
 PUB DESC: Health Physics 11:553-566
 PUB DATE: 1965
 CATEGORY: AIR; Radon

<174>

AUTHOR: Haywood, F.F.; Goldsmith, W.A.;
 TITLE: Assessment of Radiological Impact of the
 Abandoned Uranium Mill Tailings Pile at Salt
 Lake City
 PUB DESC: ORNL-TM-5251
 PUB DATE: 1977
 CATEGORY: TAILINGS

<175>

AUTHOR: Hems, G.
 CORPAUTH: Sutton, England
 TITLE: Acceptable Concentration of Radon in
 Drinking Water
 PUB DESC: Internat. J. Air Water Pollution
 10:769-775
 PUB DATE: 1976
 CATEGORY: DOSIMETRY; Radon

<176>

AUTHOR: Herrmann, D.B.
 CORPAUTH: Berlin
 TITLE: Effect of Cures of Peripheral Vascular
 Disorders at Bad Brambach National Radon Spa
 PUB DESC: Deut. Gesundheitsw. 23:1953-1954
 PUB DATE: 1968
 CATEGORY: WATER; Radon

<177>

AUTHOR: Hickey, J.L.S.; Campbell, S.D.
 CORPAUTH: USPHS
 TITLE: Mathematical Model for Determining Low
 Radium-226 Body Burdens from Radon-222 in the
 Breath
 PUB DESC: Health Physics 14:119-125
 PUB DATE: 1968
 CATEGORY: BACKGROUND; Radon

<178>

AUTHOR: Hilberg, A.W.
 CORPAUTH: National Academy of Sciences
 TITLE: Review of Uranium Miner Experience in the
 United States
 PUB DESC: CONF-730915 (Symp. on Noble Gases)
 PUB DATE: 1973
 CATEGORY: EPIDEMIOLOGY; Radon

<179>

AUTHOR: Hilding, A.C.
 TITLE: Phagocytosis Mucous Flow and Ciliary
 Action
 PUB DESC: Archives Environmental Health 6:61
 PUB DATE: 1963
 CATEGORY: DOSIMETRY; Lung

<180>

AUTHOR: Hill, A.
 CORPAUTH: Uravan, Colorado
 TITLE: Rapid Measurement of Radon Decay Products
 Unattached Fractions and Working Level Values
 of Mine Atmospheres
 PUB DESC: Health Physics 28:472-474
 PUB DATE: 1975
 CATEGORY: DOSIMETRY; Radon

<181>

AUTHOR: Hill, C.R.
 TITLE: Natural Occurrence of Unsupported
 Polonium-210 in Tissue
 PUB DESC: Health Physics 9:952-953
 PUB DATE: 1963
 CATEGORY: BACKGROUND; Man

<182>

AUTHOR: Hill, C.R.
 CORPAUTH: Inst. Cancer Res, Surrey
 TITLE: Polonium-210 in Man
 PUB DESC: Nature 208:423-428
 PUB DATE: 1965
 CATEGORY: METABOLISM; Polonium

<183>

AUTHOR: Hill, C.R.
 TITLE: Routes of Uptake of Polonium-210 into
 Human Tissues
 PUB DESC: Radioecology Concentration Processes
 (Pergam), pp. 297-302
 PUB DATE: 1967
 CATEGORY: METABOLISM; Polonium

<184>

AUTHOR: Hoelgye, Z.
 CORPAUTH: Pribem, Czech
 TITLE: Problems of Excretion Analysis of
 Polonium-210 in Uranium Miners
 PUB DESC: Strahlentherapie 140:573-576
 PUB DATE: 1970
 CATEGORY: METABOLISM; Polonium

<185>

AUTHOR: Holaday, D.A.
 CORPAUTH: USPHS
 TITLE: History of the Exposure of Miners to Radon
 PUB DESC: Health Physics 16:547-552
 PUB DATE: 1969
 CATEGORY: EPIDEMIOLOGY

<186>

AUTHOR: Holaday, D.A.; Archer, V.E.;
 TITLE: Summary of United States Exposure
 Experiences in Uranium Mining Industry
 PUB DESC: Monogr. Nucl. Med. Biol. 2:457-459
 PUB DATE: 1968
 CATEGORY: EPIDEMIOLOGY

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AUTHOR: Holaday, D.A.; Jones, J.H.
 TITLE: Evaluation of Uranium Mine Atmosphere by
 Measurement of the Working Level and Radon
 PUB DESC: Radiation Data Reports 14:653-657
 PUB DATE: 1973
 CATEGORY: AIR; Radon

<188>

AUTHOR: Holgye, A.
 TITLE: Urinary Excretion of Polonium-210 by
 Czechoslovakian Uranium Miners
 PUB DESC: Cas. Lek. Cesk. 108, 1450-1455
 (ANL-Tr-847)
 PUB DATE: 1969
 CATEGORY: POLONIUM

<189>

AUTHOR: Holleman, D.F.
 CORPAUTH: Colorado State University
 TITLE: Radiation Dosimetry for the Respiratory
 Tract of Uranium Miners
 PUB DESC: COO-1500-12, 140 pp.
 PUB DATE: 1968
 CATEGORY: DOSIMETRY; Lung

<190>

AUTHOR: Holoway, C.F.; Goldsmith, W.A.;
 TITLE: Uranium Tailings Bibliography
 PUB DESC: ORNL-5109, 1,212 references
 PUB DATE: 1975
 CATEGORY: TAILINGS

<191>

AUTHOR: Holtzman, R.B.
 TITLE: Sources of Lead-210 in Uranium Miners
 PUB DESC: Health Physics 18, 105-112

<192>

AUTHOR: Holtzman, R.B.
 CORPAUTH: Argonne
 TITLE: Measurement of Natural Contents of
 Lead-210 and Polonium-210 in Human Bone -
 Estimate of WB Burdens
 PUB DESC: Health Physics 9:385-400
 PUB DATE: 1963
 CATEGORY: BACKGROUND; Man

<193>

AUTHOR: Holtzman, R.B.
 CORPAUTH: ANL
 TITLE: Lead-210 and Polonium-210 in Potable
 Waters in Illinois
 PUB DESC: Natural Radiation Environment I:227-237
 PUB DATE: 1964
 CATEGORY: WATER

<194>

AUTHOR: Holtzman, R.B.
 TITLE: Sources of Lead-210 in Uranium Miners
 PUB DESC: ANL-7489, pp. 37-43. HP 18:105-112
 PUB DATE: 1970
 CATEGORY: BACKGROUND; Lead

<195>

AUTHOR: Holtzman, R.B.; Simmons, D.V.;
 TITLE: Distribution of Radium-226, Lead-210,
 Polonium-210 in Long Bones of a Radium Dial
 Painter
 PUB DESC: ANL-7960 (Pt.2)
 PUB DATE: 1972
 CATEGORY: RATIO

<196>

AUTHOR: Holtzman, R.B.; Spencer, H.;
 TITLE: Metabolic Balances of Lead-210 and
 Polonium-210 in Unexposed Men
 PUB DESC: CONF-730907-P2, pp. 1406-1411 (IRPA3)
 PUB DATE: 1974
 CATEGORY: METABOLISM; Lead

<197>

AUTHOR: Horsfield, K.; Cumming, G.
 TITLE: Morphology of the Bronchial Tree in Man
 PUB DESC: Journal of Applied Physiology
 24:373-383
 PUB DATE: 1968
 CATEGORY: LUNG; Model

<198>

AUTHOR: Hosler, C.R.
 TITLE: Urban-Rural Climatology of Atmospheric
 Radon Concentrations
 PUB DESC: Journal Geophysical Research
 73:1155-1166
 PUB DATE: 1968
 CATEGORY: AIR; Radon

<199>

AUTHOR: Hosler, C.R.; Lockhart, L.B.
 CORPAUTH: Weather Bureau and USNRes., Washington
 TITLE: Simultaneous Measurements of Radon-222,
 Lead-214, Bismuth-214 in Air Near the Ground
 PUB DESC: Journal Geophysical Research
 70:4537-4546
 PUB DATE: 1965
 CATEGORY: AIR; Radon

<200>

AUTHOR: Hukkoo, R.K.; Katoch, D.S.
 CORPAUTH: Bhabha
 TITLE: Whole-Body Counting of Uranium Mine
 Workers
 PUB DESC: BARC-389, 26 pp
 PUB DATE: 1969
 CATEGORY: DOSIMETRY; Bismuth

<201>

AUTHOR: Hunt, V.R.; Radford, E.P.;
 TITLE: Naturally Occurring Concentrations of
 Alpha-Emitting Isotopes in a New England
 Population
 PUB DESC: Health Physics 19:235-243
 PUB DATE: 1970
 CATEGORY: RATIO; Radium/Lead

<202>

AUTHOR: Hursh, J.B.
 CORPAUTH: University of Rochester
 TITLE: Origin and Basis of Present Standards for
 Uranium
 PUB DESC: ERDA-93, pp. 26-34
 PUB DATE: 1975
 CATEGORY: STANDARDS; Uranium

<203>

AUTHOR: Hursh, J.B.; Mercer, T.T.
 TITLE: Measurement of Lead-212 Loss Rate from
 Human Lungs
 PUB DESC: J. Applied Physiology 28:268-274
 PUB DATE: 1970
 CATEGORY: METABOLISM; Lead

<204>

AUTHOR: Hursh, J.B.; Morken, D.A.
 TITLE: Fate of Radon Ingested by Man
 PUB DESC: Health Physics 11:465-476
 PUB DATE: 1965
 CATEGORY: METABOLISM; Radon

<205>

AUTHOR: IAEA
 TITLE: Uranium Mining
 PUB DESC: Inhalation Risks from Radioact.
 Contam., IAEA, pp. 87-94
 PUB DATE: 1973
 CATEGORY: HAZARD; Nuclear

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AUTHOR: ICRP 2
 TITLE: Permissible Dose for Internal Radiation
 PUB DESC: Pergamon Press page 77, also issued as
 Health Physics 3, 77
 PUB DATE: 1960
 CATEGORY: STANDARDS; ICRP

<207>

AUTHOR: Israel, H.
 TITLE: Diffusionskoeffizient des Radons in
 Bodenluft
 PUB DESC: Z. Geophys. 25:104-108
 PUB DATE: 1959
 CATEGORY: DIFFUSION; Coefficient

<208>

AUTHOR: Israel, H.; Becker, F.
 TITLE: Emanationsgehalt der Bodenluft und
 Untergrunds-Tektonik
 PUB DESC: Naturwissenschaften 23:818
 PUB DATE: 1935
 CATEGORY: SOIL; Radon

<209>

AUTHOR: Ivanov, Z.; Vasilev, G.;
 TITLE: Effects of Combined Action of Tobacco
 Smoke and Radon-222 on the Organism
 PUB DESC: Rentgenologija i Radiologija 14:188-192
 PUB DATE: 1975
 CATEGORY: INHALATION; Radon

<210>

AUTHOR: Jacobi, W.
 TITLE: Dose to the Human Respiratory Tract by
 Inhalation of Short-Lived Radon-222 and
 Radon-220 Decay Prods
 PUB DESC: Health Physics 10:1163-1174
 PUB DATE: 1964
 CATEGORY: DOSIMETRY; Lung

<211>

AUTHOR: Jacobi, W.
 CORPAUTH: Berlin
 TITLE: Activity and Potential Alpha-Energy of
 Radon-222 and Radon-220 Daughters in
 Different Air Atmospheres
 PUB DESC: Health Physics 22:441-450
 PUB DATE: 1972
 CATEGORY: INHALATION

<212>

AUTHOR: Jacobi, W.
 CORPAUTH: Berlin
 TITLE: Relations Between Inhaled Potential Alpha
 Energy of 222Rn and 220Rn
 Daughters...Bronchial
 PUB DESC: Health Physics 23:3-11
 PUB DATE: 1972
 CATEGORY: DOSIMETRY; Radon

<213>

AUTHOR: Jacobi, W.
 TITLE: Lung Cancer Hazards by Inhalation of
 Radon-222 Decay Products
 PUB DESC: Biophysik 10, 103-114
 Translation:BNWL-TR-126
 PUB DATE: 1973
 CATEGORY: PATHOLOGY; Radon

<214>

AUTHOR: Jacobi, W.
 CORPAUTH: Meitner Inst., Berlin
 TITLE: Problems of Recommendation for a Maximum
 Permissible Inhalation Intake of Short-Lived
 Radon Daughters
 PUB DESC: Health Physics Prechs. Internal Contam.,
 pp. 109-136 (IRPA2Eur)
 PUB DATE: 1973
 CATEGORY: WORK LEVEL

<215>

AUTHOR: Jacobi, W.
 CORPAUTH: Munich, Inst. Rad. Prot.
 TITLE: Relation between Cumulative Exposure to
 Radon-Daughters, Lung Dose and Lung Cancer
 Risk
 PUB DESC: CONF-730915 (Symposium on Noble Gases)
 PUB DATE: 1973
 CATEGORY: DOSIMETRY; Radon

<216>

AUTHOR: Jacobi, W.; Andre, K.
 TITLE: Vertical Distribution of Radon-222,
 Radon-220 and Their Decay Products in the
 Atmosphere
 PUB DESC: J. Geophysical Research 68:3799-3814
 PUB DATE: 1963
 CATEGORY: AIR; Radon

<217>

AUTHOR: Jacobi, W.; Schraub, A.
 TITLE: Internal Radiation Exposure by Radon-222,
 Radon-220, and Their Short-Lived Daughters
 PUB DESC: Natuerliche Strahlenexposition des
 Menschen
 PUB DATE: 1974
 CATEGORY: DOSIMETRY; Radon

<218>

AUTHOR: Jacoe, P.W.
 TITLE: Occurrence of Radon in Non-Uranium Mines
 in Colorado
 PUB DESC: Archives Ind. Hyg. Occup. Medicine
 8:118
 PUB DATE: 1953
 CATEGORY: AIR; Radon

<219>

AUTHOR: Jaworowski, Z.
 CORPAUTH: Inst. Nucl. Res., Poland
 TITLE: Lead-210 in Bone, Hair, Lymph Nodes of
 Uranium Miners
 PUB DESC: Atompraxis 11:271-273, 1965
 CATEGORY: METABOLISM; Lead

<220>

AUTHOR: Jaworowski, Z.
 TITLE: Lead-210 Hazards to Uranium Miners
 PUB DESC: Proc. 2nd Symp. Health Physics
 1:117-120
 PUB DATE: 1966
 CATEGORY: LEAD

<221>

AUTHOR: Johnson, I.E.; Watters, R.L.
 TITLE: Polonium-210 Oxide Metabolism in Ruminants
 PUB DESC: COO-2044-5
 PUB DATE: 1972
 CATEGORY: METABOLISM; Polonium

<222>

AUTHOR: Johnson, R.H.; Bernhardt, D.E.;
 TITLE: Assessment of Potential Radiological
 Health Effects from Radon in Natural Gas
 PUB DESC: EPA-520-1-73-4
 PUB DATE: 1973
 CATEGORY: PATHOLOGY; Radon

<223>

AUTHOR: Johnson, R.H.; Bernhardt, D.E.;
 TITLE: Radiological Health Significance of Radon
 in Natural Gas
 PUB DESC: CONF-730915 (Symp. on Noble Gases)
 PUB DATE: 1973
 CATEGORY: PATHOLOGY; Radon

<224>

AUTHOR: Jonassen, N.
 CORPAUTH: Tech. University, Denmark
 TITLE: Effect of Atmospheric Pressure Variations
 on Radon-222 Concentrations in Unventilated
 Rooms
 PUB DESC: Health Physics 29:216-220
 PUB DATE: 1975
 CATEGORY: RATIO

<225>

AUTHOR: Joshi, L.U.; Mahadevan, T.N.
 CORPAUTH: Bhabha
 TITLE: Seasonal Variations of Lead-210 in
 Ground-Level Air in India
 PUB DESC: Health Physics 15:67-71
 PUB DATE: 1968
 CATEGORY: AIR; Lead

<226>

AUTHOR: Joshi, L.U.; Rangarajan, C.;
 CORPAUTH: Bhabha
 TITLE: Investig. on Lead-210 Concns in Various
 Regions of India
 PUB DESC: Health Physics 20:665-668
 PUB DATE: 1971
 CATEGORY: AIR; Lead

<227>

AUTHOR: Kahlos, H.
 CORPAUTH: Inst. Rad. Phys. Helsinki
 TITLE: Radon Problem in Non-Uranium Mines in
 Finland
 PUB DESC: Vuoriteollisuus-Bergshanteringen
 32:90-94
 PUB DATE: 1974
 CATEGORY: AIR; Radon

<228>

AUTHOR: Kahlos, H.; Suomela, M.
 CORPAUTH: Helsinki
 TITLE: Elimination Rate and Rad Exposure
 Following Ingestion of Radon-222 Water
 PUB DESC: SPL-A-16
 PUB DATE: 1970
 CATEGORY: METABOLISM; Radon

<229>

AUTHOR: Kanapilly, G.M.; Raabe, O.G.;
 TITLE: Measure of in-Vitro Dissolution of
 Aerosol Particles vs Dissol in Lower Resp
 Tract, Inhal
 PUB DESC: Health Physics 24:497-507
 PUB DATE: 1973
 CATEGORY: LEACHING; Biological

<230>

AUTHOR: Kanapilly, G.M.; Raabe, O.G.;
 TITLE: Method for Determining Dissolution
 Characterist of Accidentally Released
 Radioactive Aerosols
 PUB DESC: CONF-730907-P2, IRPA
 PUB DATE: 1974
 CATEGORY: LUNG; Model

<231>

AUTHOR: Kaufman, R.F.; O'Connell, M.F.
 CORPAUTH: EPA, Las Vegas
 TITLE: Radiologic Considerations of Geothermal
 Resources in Western United States
 PUB DESC: Amer. Association. Pet. Geol. Bulletin
 59
 PUB DATE: 1975
 CATEGORY: GEOTHERMAL; Radon

<232>

AUTHOR: Kauranan, P.; Miettinen, J.K.
 TITLE: Polonium-210 and Lead-210 in the Arctic
 Food Chain and the Natural Radiation Exposure
 of Lapps
 PUB DESC: Health Physics 16:287-295
 PUB DATE: 1969
 CATEGORY: INGESTION; Lead

<233>

AUTHOR: Kauranan, P.; Miettinen, J.K.
 TITLE: Lead-210 and Polonium-210 in Arctic Food
 Chain and Natural Radiation Exposure of Lapps
 PUB DESC: NYO-3446-15
 PUB DATE: 1971
 CATEGORY: FOOD CHAIN

<234>

AUTHOR: Kaznachee, V.P.
 CORPAUTH: Novosibirsk
 TITLE: Deuterium and Free Radicals in Radon
 Water of Belokurikh Health Resort
 PUB DESC: Vop. Kurotol. Fizioter. Lech...38
 PUB DATE: 1973
 CATEGORY: WATER; Radon

<235>

AUTHOR: Kennedy, A.R.; Little, J.B.
 CORPAUTH: Harvard
 TITLE: Cellular Localization of I.T.-Admin
 Polonium-210 in Hamster Lung by
 Autoradiography...
 PUB DESC: Exptl. Lung Cancer, E. Karbe, Ed.,
 Springer-Verlag
 PUB DATE: 1974
 CATEGORY: PATHOLOGY; Polonium

<236>

AUTHOR: Kenny, A.W.; Crooks, R.N.;
 TITLE: Radium, Radon, Daughter Products in
 Certain Drinking Waters in Great Britain
 PUB DESC: J. Inst. Water Engineers 20:123-134
 PUB DATE: 1966
 CATEGORY: WATER

<237>

AUTHOR: Kerr, G.D.
 CORPAUTH: ORNL
 TITLE: Measurement of Radon Progeny
 Concentrations in Air
 PUB DESC: Trans. Amer. Nuclear Soc. 17:542-543
 PUB DATE: 1973
 CATEGORY: AIR; Radon

<238>

AUTHOR: Kerr, G.D.
 TITLE: Measurement of Radon Progeny
 Concentrations in Air by Alpha-Particle
 Spectrometry
 PUB DESC: ORNL/TM-4924
 PUB DATE: 1975
 CATEGORY: MONITORING; Radon

<239>

AUTHOR: Kerr, G.D.; Abdullah, S.A.;
 TITLE: Measurements of Radon Daughter
 Concentrations in Air
 PUB DESC: ORNL-4979
 PUB DATE: 1974
 CATEGORY: BACKGROUND; Buildings

<240>

AUTHOR: Khandekar, R.N.; Anand, S.J.S.
 TITLE: Measurement of Lead-210 in Human Bone at
 Bombay, India
 PUB DESC: Health Physics 20:83-85
 PUB DATE: 1971
 CATEGORY: BACKGROUND; Man

<241>

AUTHOR: Khandekar, R.N.; Meyers, O.
 TITLE: Measure of Lead-210 in Urine of Persons
 with Radium Burdens and Assessment of
 Long-Term
 PUB DESC: Assess. Radioact. Contamin. in Man
 247-54 (IAEA)
 PUB DATE: 1972
 CATEGORY: RATIO; Radium/Lead

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<242>

AUTHOR: Kilibarda, M.; Petrovic, D.;
 TITLE: Contamination with Polonium-210, Uranium
 and Radium-226 Due to Smoking
 PUB DESC: Radiation Protect. Pt. 2., pp.
 1099-1103
 PUB DATE: 1968
 CATEGORY: SMOKING; Uranium

<243>

AUTHOR: Kirichenko, V.N.; Ivanov, V.D.
 TITLE: Measure of Absorbed Dose by a Trachea
 Model Placed in Radon-Containing Atmos... of
 Mine
 PUB DESC: Gig. Sanit. 1:66-71
 PUB DATE: 1970
 CATEGORY: DOSIMETRY; Lung

<244>

AUTHOR: Kirichenko, V.N.; Khachirovhirov, D.G.;
 TITLE: Re: Radon Daughter Distrib. within Mucous
 Layer of Dog, Rabbit, Exptl.
 PUB DESC: Gigiena i Sanitariia 2:52
 PUB DATE: 1970
 CATEGORY: LUNG; Physiology

<245>

AUTHOR: Klemenic, J.; Berkoff, E.W.
 TITLE: Financial Aspects of Domestic Uranium
 Mining and Milling Industry Over Next 15 Years
 PUB DESC: TID-26289, 40 pp.
 PUB DATE: 1972
 CATEGORY: ECONOMICS

<246>

AUTHOR: Kotin, P.; Courington, D.;
 TITLE: Pathogenesis of Cancer in a Ciliated
 Mucous-Secreting Epithelium
 PUB DESC: Amer. Review Respiratory Diseases
 93:115
 PUB DATE: 1966
 CATEGORY: PATHOLOGY; Lung

<247>

AUTHOR: Kotrappa, P.
 CORPAUTH: University of Rochester
 TITLE: Calculation of Burden and Dose to
 Respiratory Tract from Continuous Inhal of
 Radioact Aerosol
 PUB DESC: Health Physics 17:429-432
 PUB DATE: 1969
 CATEGORY: DOSIMETRY; Lung

<248>

AUTHOR: Kotrappa, P.; Bhanti, D.P.;
 CORPAUTH: Bhabha
 TITLE: Diffusion Sampler Useful for Measuring
 Diffusion Coefficients and Unattached
 Fraction Radon-222 and Radon-220 Decay
 PUB DESC: Z. Geophys. 29:155-162
 PUB DATE: 1975
 CATEGORY: DIFFUSION; Coefficient

<249>

AUTHOR: Kotrappa, P.; Bhanti, D.P.;
 CORPAUTH: Bhabha
 TITLE: Diffusion Coefficients for Unattached
 Decay Products of Thoron: Dependence on
 Ventil, Humidity
 PUB DESC: Health Physics 31:378-380
 PUB DATE: 1976
 CATEGORY: DIFFUSION; Coefficient

<250>

AUTHOR: Kotrappa, P.; Mayya, Y.S.
 CORPAUTH: Bhabha
 TITLE: Revision of Raghavayya and Jones' Data on
 Radon Decay Products in Mine Air
 PUB DESC: Health Physics 31:380-382
 PUB DATE: 1976
 CATEGORY: AIR; Radon

<251>

AUTHOR: Krishnaswami, S.; Somayajulu, B.L.K.;
 TITLE: Lead-210/Radium-226 Disequilibrium in the
 Santa Barbara Basin
 PUB DESC: Earth Planetary Science Letters
 27:388-392
 PUB DATE: 1975
 CATEGORY: RATIO; Radium/Lead

<252>

AUTHOR: Krisyuk, E.M.; Lisachenko, E.P.;
 TITLE: Investigation and Standardization of the
 Radioactivity of Construction Materials
 PUB DESC: Proceedings 3rd International
 Radiation Protection Association, September
 9-14, Washington, D.C. (CONF-730907-P), Pages
 870-881
 PUB DATE: 1973

<253>

AUTHOR: Krisyuk, E.M.; Tarasov, S.I.;
 TITLE: Study and Standardization of
 Radioactivity in Structural Materials
 PUB DESC: SZS-157
 PUB DATE: 1974
 CATEGORY: BACKGROUND; Buildings

<254>

AUTHOR: Kruger, J.; Andrews, M.
 CORPAUTH: Pretoria
 TITLE: Measurement of Attachment Coefficient of
 Radon-220 Decay Products to Monodisp.
 Polysty. Aer
 PUB DESC: J. Aerosol. Science 7:21-36
 PUB DATE: 1976
 CATEGORY: AIR; Radon

<255>

AUTHOR: Kuroda, P.K.
 TITLE: Radioactivity of Spring Waters of Hot
 Springs National Park and Vicinity in Arkansas
 PUB DESC: American Journal of Science 252:76-86
 PUB DATE: 1954
 CATEGORY: GEOTHERMAL; Radon

<256>

AUTHOR: Kusak, V.
 TITLE: Etiopathogenesis of Bronchogenic
 Pulmonary Carcinoma in Miners from Uranium
 Mines
 PUB DESC: Strahlentherapie 138:549-555
 PUB DATE: 1969
 CATEGORY: PATHOLOGY; Uranium

<257>

AUTHOR: Ladinskaya, L.A.; Parfenov, Yu.D.;
 TITLE: Lead-210 and Polonium-210 Content in Air,
 Water, Foodstuffs and Human Body
 PUB DESC: Arch. Environmental Health 27:254-258
 PUB DATE: 1973
 CATEGORY: RATIO; Lead/Polonium

<258>

AUTHOR: Lafuma, J.; Masse, R.;
 TITLE: Experimental Study of Inhaled Radioactive
 Pollutants, 1. Data. 2. Lesions. 3.
 Dose-Effect Validity
 PUB DESC: LF-Tr-111
 PUB DATE: 1974
 CATEGORY: DOSE; Response

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AUTHOR: Landahl, H.D.
 TITLE: Removal of Air-Borne Droplets by the
 Human Respiratory Tract
 PUB DESC: Bull. Math. Biophys. 12:43
 PUB DATE: 1950
 CATEGORY: LUNG; Model

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AUTHOR: Langford, J.C.
 CORPAUTH: BNWL
 TITLE: Particulate Lead, Lead-210 and
 Polonium-210 in the Environment
 PUB DESC: Health Physics 20:331-336
 PUB DATE: 1971
 CATEGORY: RATIO; Lead/Polonium

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AUTHOR: Lebedev, B.I.; Lebedeva, G.A.;
 TITLE: Carcinogenic Effects of Polonium-210 in
 Dogs Treated with Oxathiol
 PUB DESC: CONF-720505, pp. 168-180 (Hanford
 Symp. Rad. Carcin.)
 PUB DATE: 1973
 CATEGORY: PATHOLOGY; Polonium

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AUTHOR: Lebedev, B.I.; Lebedeva, G.A.;
 TITLE: Tumor Formation in Dogs After Prolonged
 Period Following Polonium-210 and Oxathiol
 Introduction
 PUB DESC: Voprosy Onkologii 19:97-102
 PUB DATE: 1973
 CATEGORY: PATHOLOGY; Polonium

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AUTHOR: Lebedev, Y.A.; Pavlov, I.V.
 TITLE: Radiation Safety in Mine Passages
 PUB DESC: Atomic Energy (USSR) 32:111-114
 PUB DATE: 1972
 CATEGORY: AIR; Radon

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AUTHOR: Lippman, M.
 CORPAUTH: NYU
 TITLE: Regional Deposition of Particles in the
 Human Respiratory Tract
 PUB DESC: Handbook of Physiology, Section 9,
 Reactions to Environmental Agents Chapter 14,
 pp 213-232 (1977), 91 references
 PUB DATE: 1977
 CATEGORY: DOSIMETRY; Lung

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AUTHOR: Lisco, H.; Kennedy, A.R.;
 CORPAUTH: Harvard
 TITLE: Histologic Observations on Pathogenesis
 of Lung Cancer in Hamsters After
 Administration of Polonium-210
 PUB DESC: Exptl. Lung Cancer: Carcin. and
 Bioass., E. Karbe, Ed.
 PUB DATE: 1974
 CATEGORY: PATHOLOGY; Polonium

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AUTHOR: Little, J.B.; Grossman, B.N.;
 TITLE: Factors Influencing Lung Cancer Induction
 in Hamsters by Intratracheal Administration
 of Polonium-210
 PUB DESC: CONF-720505, pp. 119-137
 PUB DATE: 1973
 CATEGORY: PATHOLOGY; Polonium

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AUTHOR: Little, J.B.; Kennedy, A.R.
 TITLE: Lung Cancer Induced in Hamsters by Low
 Doses of Alpha from Polonium-210
 PUB DESC: Science 188:737-738
 PUB DATE: 1975
 CATEGORY: SMOKING; Polonium

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AUTHOR: Little, J.B.; O'Toole, W.F.
 CORPAUTH: Harvard
 TITLE: Respiratory Tract Tumors in Hamsters
 Induced by Benzpyrene and Polonium-210 Alpha
 Radiation
 PUB DESC: Cancer Research 34:3026-3039
 PUB DATE: 1974
 CATEGORY: PATHOLOGY; Polonium

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AUTHOR: Little, J.B.; Radford, E.P.
 TITLE: Distribution of Polonium-210 in Pulmonary
 Tissues of Cigarette Smokers
 PUB DESC: New England J. Medicine 273:1343-1351
 PUB DATE: 1965
 CATEGORY: DOSIMETRY; Polonium

<270>

AUTHOR: Little, J.B.; Radford, E.P.
 TITLE: Polonium-210 in Bronchial Epithelium of
 Heavy Smokers
 PUB DESC: Science 155:606-607
 PUB DATE: 1967
 CATEGORY: SMOKING; Polonium

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AUTHOR: Lloyd, R.D.; Mays, C.W.;
 CORPAUTH: Utah
 TITLE: Lead-210 Studies in Beagles
 PUB DESC: Health Physics 28:575-583
 PUB DATE: 1975
 CATEGORY: METABOLISM; Lead

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AUTHOR: Lorenz, E.
 TITLE: Radioactivity and Lung Cancer: Critical
 Review of Lung Cancer in Miners of Schneeberg
 PUB DESC: J. National Cancer Institute 5:1-15
 PUB DATE: 1944
 CATEGORY: EPIDEMIOLOGY

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AUTHOR: Lough, S.A.
 CORPAUTH: HASL
 TITLE: Natural Radiation Environment
 PUB DATE: 1958
 CATEGORY: BACKGROUND; Radon

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AUTHOR: Lowder, W.M.; Harley, J.H.;
 CORPAUTH: HASL
 TITLE: Data Needs for Assessment of Population
 Dose From Background Radiation
 PUB DESC: Population Exposure Symposium
 (CONF-741018), pp. 23-28
 PUB DATE: 1974
 CATEGORY: BACKGROUND; Radon

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AUTHOR: Lucas, H.F.; Holtzman, R.B.;
 TITLE: Radium-226, Radium-228, Lead-210 and
 Fluoride in Persons with Osteogenic Sarcoma
 PUB DESC: Science 144:1573-1575
 PUB DATE: 1964
 CATEGORY: EPIDEMIOLOGY

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AUTHOR: Lukasik, S.; Szczeklik E.;
 TITLE: Effect of Radon Inhalation at Swieradow
 Spa on Water/Electrolyte Balance in
 Hypertension
 PUB DESC: Polish Medical Journal 8:21-28
 PUB DATE: 1969
 CATEGORY: METABOLISM; Radon

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AUTHOR: Lundin, F.E.; Lloyd, J.W.
 TITLE: Mortality of Uranium Miners in Relation
 to Radiation Exposure, Hard-Rock Mining and
 Cigarette Smoking - 1950 Through September
 1967
 PUB DESC: Health Physics 16:571-578
 PUB DATE: 1969
 CATEGORY: EPIDEMIOLOGY; Uranium

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AUTHOR: Lundin, F.E.; Wagoner, J.K.
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 Cancer Quantitative and Temporal Aspects
 PUB DESC: Joint Monograph No. 1 by National
 Institute for Occupational Safety and Health
 and National Institute of Environmental
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 174 pages, 175 References
 PUB DATE: 1971
 CATEGORY: EPIDEMIOLOGY; Uranium

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AUTHOR: Maeda, K.; Abe, S.;
 TITLE: Evaluation of Long-Term Survey of Death
 Causes in Population Near Radiation-Rich Hot
 Spring
 PUB DESC: CONF-730907-P1 (IRPA 3)
 PUB DATE: 1974
 CATEGORY: EPIDEMIOLOGY

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AUTHOR: Maertens, A.; Jacobi, W.
 CORPAUTH: Hahn-Meitner Institute, Berlin
 TITLE: In-Vivo Bestimmung
 Aerosolteilchendeposition im Atemtrakt bei
 Mund- bzw. Nasenatmung
 PUB DESC: Aerosole in Physik, Medizin und
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 PUB DATE: 1974
 CATEGORY: LUNG; Physiology

<281>

AUTHOR: Magno, P.J.; Groulx, P.R.;
 TITLE: Lead-210 in Air and Total Diets in the
 United States During 1966
 PUB DESC: Health Physics 18:383-388
 PUB DATE: 1970
 CATEGORY: AIR; Lead

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AUTHOR: Malatova, I.; Dvorak, V.;
 CORPAUTH: Prague
 TITLE: Assessment of Radon-222 Fraction Retained
 in Mice After Single Injection of Radium-224
 PUB DESC: Radiation Research 55:160-168
 PUB DATE: 1973
 CATEGORY: RATIO; Radium/Radon

<283>

AUTHOR: Mancuso, T.F.; Sanders, B.S.
 CORPAUTH: University of Pittsburgh
 TITLE: Study of Lifetime Health and Mortality
 Experience of Employees of ERDA Contractors
 PUB DESC: COO-3428-6, 93 pp.
 PUB DATE: 1975
 CATEGORY: EPIDEMIOLOGY

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AUTHOR: Marenco, A.; Fontan, J.
 TITLE: Sources of Polonium-210 Within Troposphere
 PUB DESC: Tellus 24:38-46
 CATEGORY: AIR; Polonium

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AUTHOR: Margocsy, N.; Feraru, H.;
 TITLE: Study of Absorption Natural Uranium and
 Lead-210...in an Area of Roumania of
 Increased National Background
 PUB DESC: Health Phys. Probs. Internal Contam.,
 pp. 401-406
 PUB DATE: 1973
 CATEGORY: BACKGROUND; Lead

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AUTHOR: Markun, F.; Huff, D.R.
 TITLE: Interference from Inhaled Radon in
 Measurement of Low Radium Levels In-Vivo
 PUB DESC: ANL-8060 (Pt. 2)
 PUB DATE: 1973
 CATEGORY: RATIO; Radium/Radon

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AUTHOR: Marquardt, W.
 TITLE: Influences on Natural Radioactivity in
 the Layer of Air Near the Ground
 PUB DESC: Z. Meteorol. 19:222-231
 PUB DATE: 1967
 CATEGORY: AIR; Radon

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AUTHOR: Marshall, J.H.; Groer, P.G.;
 TITLE: Dose to Endosteal Cells and Relative
 Distribution Factors for Radium-224 and
 Pu-239 vs Radium-226
 PUB DESC: ANL-75-3 (Pt. 2)
 PUB DATE: 1974
 CATEGORY: DOSIMETRY; Micro

<289>

AUTHOR: Marshall, J.H.; Groer, P.G.
 TITLE: Theory of Induction of Bone Cancer by
 Alpha Radiation
 PUB DESC: Health Effects of Plutonium and Radium
 PUB DATE: 1976
 CATEGORY: DOSE; Response

<290>

AUTHOR: Martell, E.A.
 TITLE: Tobacco Radioactivity and Cancer in
 Smokers
 PUB DESC: American Scientist 63:404-412
 PUB DATE: 1975
 CATEGORY: SMOKING

<291>

AUTHOR: Martin, J.E.; Mills, W.A.
 CORPAUTH: EPA, Washington
 TITLE: Environmental Radiation Standards
 Considerations for Krypton-85 and Radon
 PUB DESC: CONF-730915 (Symposium on Noble Gases)
 PUB DATE: 1973
 CATEGORY: STANDARDS; Radon

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AUTHOR: Martland, H.S.; Conlon, P.;
 TITLE: Some Unrecognized Dangers in Use and
 Handling of Radioactive Substances, Esp.
 Storage of Radium Daughter in RES
 PUB DESC: J. American Medical Association
 85:1769-1776
 PUB DATE: 1925
 CATEGORY: PATHOLOGY; Radium

<293>

AUTHOR: Martz, D.E.; Schiager, K.J.
 CORPAUTH: Colorado State University
 TITLE: Protection Against Radon Progeny
 Inhalation Using Filter-Type Respirators
 PUB DESC: Health Physics 17:219-228
 PUB DATE: 1969
 CATEGORY: MONITORING; Radon

<294>

AUTHOR: Mason, T.J.; Fraumeni, J.F.;
 TITLE: Uranium Mill Tailings and Cancer
 Mortality in Colorado
 PUB DESC: Journal National Cancer Institute
 49:661-664
 PUB DATE: 1972
 CATEGORY: EPIDEMIOLOGY

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AUTHOR: Mattson, R.
 CORPAUTH: Helsinki
 TITLE: Seasonal Variation of Short-Lived Radon
 Progeny (Lead-210, Polonium-210) in Ground Air
 PUB DESC: J. Geophysical Research 75:1741-1744
 PUB DATE: 1970
 CATEGORY: RATIO; Lead/Polonium

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AUTHOR: Mays, C.W.; Haldin, R.;
 CORPAUTH: University of Utah
 TITLE: Radon Exhalation in Radiothorium-Burdened
 Beagles
 PUB DESC: Radiation Research 9:438-444
 PUB DATE: 1958
 CATEGORY: METABOLISM; Radon

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AUTHOR: Mays, C.W.; Lloyd, R.D.;
 TITLE: Fractional Radon Retention in Bone
 PUB DESC: Health Physics 29:761-765
 PUB DATE: 1975
 CATEGORY: RATIO; Radium/Radon

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AUTHOR: Mays, C.W.; VanDilla, M.A.;
 TITLE: Radon Retention in Radium-Injected Beagles
 PUB DESC: Radiation Research 8:480-489
 PUB DATE: 1958
 CATEGORY: METABOLISM; Radon

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AUTHOR: McInroy, J.F.; Watters, R.L.;
 TITLE: Polonium-210 Absorption in Rats-Effects
 of Biological Modification
 PUB DESC: Nature New Biology 236:118-120
 PUB DATE: 1972
 CATEGORY: METABOLISM; Polonium

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AUTHOR: Mead, G.F.
 CORPAUTH: Canberra
 TITLE: Evolution of Health Standards and of
 Methods of Enforcement in Australian Uranium
 Mining and Mill
 PUB DESC: Rad. Health Saf. Min. Mill. Nucl.
 Materials 2:535-545
 PUB DATE: 1964
 CATEGORY: STANDARDS

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AUTHOR: Mercer, T.T.
 TITLE: The Deposition Model of the Task Group on
 Lung Dynamics: A Comparison With Recent
 Experimental Data
 PUB DESC: Health Physics 29:673-680
 PUB DATE: 1975
 CATEGORY: LUNG; Model

<302>

AUTHOR: Mikhaylov, M.G.; Yotov, M.
 TITLE: Contamination of Air with Radon Decay
 Products in Dwellings in Region of Elevated
 PUB DESC: Roentgenol. Radiol. 6:112-120
 PUB DATE: 1967
 CATEGORY: BACKGROUND; Buildings

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AUTHOR: Misaki, F.L.
 CORPAUTH: Natl. Min. Health, Saf. Acad.
 TITLE: U.S. Uranium Mines and Mills Emit
 Negligible Radiation
 PUB DESC: Mining Engineering 28
 PUB DATE: 1976
 CATEGORY: AIR; Radon

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AUTHOR: Moore, H.E.; Poet, S.E.;
 TITLE: Radon-222, Lead-210, Bismuth-210,
 Polonium-210, Profiles and Aerosol Residence
 Times
 PUB DESC: Journal Geophysical Research
 78:7065-7075
 PUB DATE: 1973
 CATEGORY: RATIO

<305>

AUTHOR: Moore, H.E.; Poet, S.E.;
 CORPAUTH: Boulder, Colorado
 TITLE: Reply
 PUB DESC: Journal Geophysical Research
 78:7153-7154
 PUB DATE: 1973
 CATEGORY: RATIO

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AUTHOR: Moore, H.E.; Poet, S.E.;
 TITLE: Origin of Radon-222 and Its Long-Lived
 Daughters in Air Over Hawaii
 PUB DESC: J. Geophysical Research 79:4859-4864
 PUB DATE: 1974
 CATEGORY: AIR; Radon

<307>

AUTHOR: Morken, D.A.
 CORPAUTH: University of Rochester
 TITLE: Relation of Lung Dose Rate to Working
 Level
 PUB DESC: Health Physics 16:796-798
 CATEGORY: WORK LEVEL

<308>

AUTHOR: Morken, D.A.
 CORPAUTH: Las Vegas
 TITLE: Biological Effects of Radon on the Lung
 PUB DESC: CONF-730915 (Symp. on Noble Gases)
 PUB DATE: 1973
 CATEGORY: PATHOLOGY; Radon

<309>

AUTHOR: Morken, D.A.; Scott, J.K.
 TITLE: Effects on Mice of Continual Exposure to
 Radon & Products on Dust
 PUB DESC: UR-669
 PUB DATE: 1966
 CATEGORY: PATHOLOGY; Radon

<310>

AUTHOR: Moroz, B.B.; Parfenov, Yu.D.
 TITLE: Effects of Polonium-210 on the Organism
 PUB DESC: ABC-Tr-7300
 CATEGORY: POLONIUM

<311>

AUTHOR: Moroz, B.B.; Parfenov, Yu.D.
 CORPAUTH: Inst. Biophysics, Moscow
 TITLE: Metabolism and Biological Effects of
 Polonium-210
 PUB DESC: Atomic Energy Review 10:175-232
 PUB DATE: 1972
 CATEGORY: METABOLISM; Polonium

<312>

AUTHOR: Morrow, P.E.
 CORPAUTH: University of Rochester
 TITLE: Models for the Study of Particle
 Retention and Elimination in the Lung
 PUB DESC: Inhalation Carcinogenesis, pp. 103-119
 PUB DATE: 1970
 CATEGORY: LUNG; Model

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AUTHOR: Morrow, P.E.; ICRP 2
 TITLE: Deposition and Retention Models for
 Internal Dosimetry of the Human Respiratory
 Tract
 PUB DESC: Health Physics 12:173-207
 PUB DATE: 1966
 CATEGORY: LUNG; Model

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AUTHOR: Morrow, P.E.; ICRP 2
 TITLE: Errata and Revisions to Health Physics
 12, 173 (1966)
 PUB DESC: Health Physics 13: 1251
 PUB DATE: 1967
 CATEGORY: LUNG; Model

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AUTHOR: Morse, R.F.; Welford, G.A.
 TITLE: Dietary Intake of Lead-210
 PUB DESC: Health Physics 21:53-55, 1971
 CATEGORY: METABOLISM; Lead

<316>

AUTHOR: Moskalev, Yu.I.
 TITLE: Distribution and Biological Effects of
 Radioactive Isotopes
 PUB DESC: Book, 575 pp, Atomizdat
 PUB DATE: 1966
 CATEGORY: PATHOLOGY; Polonium

<317>

AUTHOR: Mueller, C.; Kubat, M.;
 TITLE: Effect of Occupational Risk on Reprod
 Function of Women in Mining/Milling...
 PUB DESC: Zentralbl. Gynaekol. 84:561-568
 PUB DATE: 1962
 CATEGORY: PATHOLOGY; Uranium

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AUTHOR: Muminov, Ya.K.; Drynkin, A.P.;
 TITLE: New Radon-Containing Waters of Village
 Nagornaya and Prospects for Their Use
 PUB DESC: Meditsinskii Zhurnal Uzbekistana
 2:30-31
 PUB DATE: 1974
 CATEGORY: GEOTHERMAL; Radon

<319>

AUTHOR: Naimark, D.H.
 CORPAUTH: Mound Lab.
 TITLE: Effective Half-Life of Polonium in the
 Human
 PUB DESC: MLM-272
 PUB DATE: 1949
 CATEGORY: METABOLISM; Polonium

<320>

AUTHOR: Nelson, I.C.
 TITLE: Deposition of Radon Daughters in the
 Tracheobronchial Tree
 PUB DESC: BNWL-2000 (Pt. 1)
 PUB DATE: 1976
 CATEGORY: LUNG; Model

<321>

AUTHOR: Nelson, I.C.; Parker, H.M.
 CORPAUTH: NIOSH, Cincinnati
 TITLE: Further Appraisal of Dosimetry Related to
 Uranium Mining Health Hazards
 PUB DESC: Res. Rept. Contract CPE-69-131, USPHS
 PUB DATE: 1974
 CATEGORY: DOSIMETRY; Uranium

<322>

AUTHOR: Nizhinkov, A.I.; Delgirev, E.I.;
 CORPAUTH: Leningrad
 TITLE: Metabolism of Lead-210 and Polonium-210
 in Body
 PUB DESC: CONF-730907-P2, pp. 1353-7 (IRPA3)
 PUB DATE: 1973
 CATEGORY: METABOLISM

<323>

AUTHOR: Novakova, E.; Kerteva, A.;
 CORPAUTH: Sofia
 TITLE: Blood and Urinary Polonium-210 Levels in
 Personnel Employed at the Narechen Spa
 PUB DESC: Sci. Pub. Res. Inst. Radiol. Rad.
 Hygiene 5:207-210
 PUB DATE: 1975
 CATEGORY: GEOTHERMAL; Radon

<324>

AUTHOR: Novikov, Yu.V.
 CORPAUTH: Moscow Institute Hygiene
 TITLE: Effect of Small Concentrations of Uranium
 in Water on the Population's Health
 PUB DESC: Gigiena i Sanitariia 10:33-40
 PUB DATE: 1967
 CATEGORY: EPIDEMIOLOGY

<325>

AUTHOR: Nussbaum, E.
 TITLE: Radon Solubility in Body Tissues and
 Fatty Acids
 PUB DESC: UR-503, 158 pages
 PUB DATE: 1957

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AUTHOR: Nussbaum, E.; Hursh, J.B.
 TITLE: Radon Solubility in Rat Tissues
 PUB DESC: Science 125:552-553
 PUB DATE: 1957
 CATEGORY: METABOLISM; Radon

<327>

AUTHOR: O'Connell, M.F.; Kaufman, R.F.
 CORPAUTH: EPA, Las Vegas
 TITLE: Radioactivity Associated with Hot Springs
 in Western United States
 PUB DESC: Health Physics 29, p. 902
 PUB DATE: 1975
 CATEGORY: GEOTHERMAL; Radon

<328>

AUTHOR: O'Riordan, M.C.; Duggan, M.J.;
 TITLE: Radiological Implications of Using
 By-Product Gypsum as Building Material
 PUB DESC: NRPB-R-7
 PUB DATE: 1972
 CATEGORY: BACKGROUND; Buildings

<329>

AUTHOR: Okabayashi, H.; Suzuki, M.;
 TITLE: Evaluation of a Polonium-210 Bioassay as
 an Index of U Mine Worker Exposure to Radon
 Daughters in Japan
 PUB DESC: Journal Radiation Research 16:142-151
 PUB DATE: 1975
 CATEGORY: WORK LEVEL

<330>

AUTHOR: Pacina, V.
 TITLE: Illness in Workers in the Uranium Industry
 PUB DESC: Bezpeonost A. Hygiena Prace, Prague
 PUB DATE: 1968
 CATEGORY: EPIDEMIOLOGY

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AUTHOR: Pacina, V.
 TITLE: Occupational Illness in the Uranium
 Industry
 PUB DESC: BNWL-Tr-91, 30 pp.
 PUB DATE: 1968
 CATEGORY: EPIDEMIOLOGY

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AUTHOR: Palm, P.E.; Mc Nerney, J.M.; Hatch, T.
 CORPAUTH: University of Pittsburgh
 TITLE: Respiratory Dust Retention in Small
 Animals
 PUB DESC: Archives Industrial Health 13:355-365
 (1956)
 PUB DATE: 1956
 CATEGORY: LUNG; Physiology

<333>

AUTHOR: Palmer, H.E.; Perkins, R.W.
 TITLE: Distribution and Deposition of Radon
 Daughters Attached to Dust Particles in the
 Respiratory System Exposed to Uranium Mine
 Atmospheres
 PUB DESC: Health Physics 10:1129-1135
 PUB DATE: 1964
 CATEGORY: AIR; Bismuth

<334>

AUTHOR: Palmer, R.F.; Filipy, R.E.;
 TITLE: Biological Effects in Beagle Dogs of
 Inhaled Radon Daughters, Uranium Ore Dust and
 Cigarette Smoke
 PUB DESC: BNWL-1950, Pt. 1, pp. 117-120
 PUB DATE: 1975
 CATEGORY: WORK LEVEL

<335>

AUTHOR: Palmer, R.F.; Filipy, R.E.;
 TITLE: Comparative Effects in Hamsters, Rats,
 and Mice of Exposure to Simulated Uranium
 Mine Atmospheres
 PUB DESC: BNWL-1950 Pt. 1, pp. 122
 PUB DATE: 1975
 CATEGORY: WORK LEVEL

<336>

AUTHOR: Palmer, R.F.; Filipy, R.E.;
 TITLE: Pulmonary Neoplastic Response in Beagle
 Dogs Exposed Daily to Radon Daughters, U.
 Dust, Cigaret
 PUB DESC: BNWL-2000 (Pt. 1)
 PUB DATE: 1976
 CATEGORY: PATHOLOGY; Comparative

<337>

AUTHOR: Palmer, R.F.; Jackson, P.O.;
 TITLE: Dosimetric Studies of Inhaled Radon
 Daughters in Dogs
 PUB DESC: BNWL-200 (Pt.1)
 PUB DATE: 1976
 CATEGORY: DOSIMETRY; Radon

<338>

AUTHOR: Palmer, R.F.; McDonald, K.E.;
 TITLE: Interspecies Comparison of Biological
 Effects of Inhaled Radon Daughters and
 Uranium Ore Dust
 PUB DESC: BNWL-2000 (Pt.1)
 PUB DATE: 1976
 CATEGORY: PATHOLOGY; Comparative

<339>

AUTHOR: Palmer, R.F.; Stuart, B.O.;
 TITLE: Biological Effects of Daily Inhalation of
 Radon and Its Short-Lived Daughters in
 Experimental Animals
 PUB DESC: CONF-730915 (Symp. on Noble Gases)
 PUB DATE: 1973
 CATEGORY: PATHOLOGY; Radon

<340>

AUTHOR: Palmer, R.F.; Stuart, B.O.;
 TITLE: Comparative Effects in Hamsters, Rats and
 Mice of Exposure to Simulated Uranium Mine
 Atmospheres
 PUB DESC: BNWL-1850 (Pt.1)
 PUB DATE: 1974
 CATEGORY: PATHOLOGY; Comparative

<341>

AUTHOR: Panov, D.
 TITLE: Radon and Silicon Dioxide Toxicity to Rat
 Lungs
 PUB DESC: IAEA-R-646-F, Final Rept. Nov.
 1968-Nov. 1972
 CATEGORY: PATHOLOGY; Radon

<342>

AUTHOR: Panov, D.; Petrovic, D.;
 TITLE: Importance of Polonium-210 Determin. in
 Urine of Workers in Uranium Miners
 PUB DESC: Suvrem. Med. 23
 PUB DATE: 1972
 CATEGORY: POLONIUM

<343>

AUTHOR: Parfenov, Yu.D.
 CORPAUTH: Inst. Biophysics, Moscow
 TITLE: Survival of Dogs from Polonium-210
 Internal Irradiation
 PUB DESC: Strahlentherapie 146:462-468
 PUB DATE: 1973
 CATEGORY: PATHOLOGY; Polonium

<344>

AUTHOR: Parfenov, Yu.D.
 CORPAUTH: Moscow
 TITLE: Interpretation of Exptl Data on
 Polonium-210 Metabolism for Computing
 Permissible Levels
 PUB DESC: CONF-730907-P2 (3rd IRPA)
 PUB DATE: 1974
 CATEGORY: DOSIMETRY; Polonium

<345>

AUTHOR: Parfenov, Yu.D.
 TITLE: Lifespan Species Differences in Dog,
 Rabbit, Rat of Internal Polonium-210
 Irradiation
 PUB DESC: Radiobiologiya 14:568-571 (AEC-Tr-7602)
 PUB DATE: 1974
 CATEGORY: PATHOLOGY; Polonium

<346>

AUTHOR: Parfenov, Yu.D.
 CORPAUTH: Moscow
 TITLE: Polonium-210 in the Environment and in
 the Human Organism
 PUB DESC: Atomic Energy Review 12
 PUB DATE: 1974
 CATEGORY: POLONIUM

<347>

AUTHOR: Parfenov, Yu.D.; Solovjev, A.
 TITLE: Assessment of Absorbed Doses of
 Polonium-210 in Rabbits by
 Histoautoradiographic Techniques
 PUB DESC: Strahlentherapie 144, 362-369
 PUB DATE: 1972
 CATEGORY: METABOLISM; Polonium

<348>

AUTHOR: Parker, H.M.
 CORPAUTH: BNWL
 TITLE: Dilemma of Lung Dosimetry
 PUB DESC: Health Physics 16:553-561
 PUB DATE: 1969
 CATEGORY: PHILOSOPHY

<349>

AUTHOR: Parkhomenko, G.M.; Sayapina, R.;
 TITLE: Entrapment of Radioactive Aerosols in
 Human Respiratory Organs and Eval. of
 Magnitude of Accum
 PUB DESC: Atomizdat., Moscow, Berkgaug, V.G.
 (Ed.)
 PUB DATE: 1972
 CATEGORY: INHALATION; Radon

<350>

AUTHOR: Parks, N.J.; Abrahams, C.D.;
 CORPAUTH: University of California, Davis
 TITLE: Retention and Distribution of Radium and
 Radon During and After Fractional
 Administration
 PUB DESC: UCD-472-122. Ann. Rept. June 1975
 PUB DATE: 1975
 CATEGORY: METABOLISM; Radon

<351>

AUTHOR: Patterson, R.L.; Lockhart, L.B.
 TITLE: Geographic Distribution of Lead-210 in
 Ground- Level Air
 PUB DESC: Natural Radiation Environment, pp.
 383-392
 PUB DATE: 1964
 CATEGORY: AIR; Lead

<352>

AUTHOR: Pearson, J.S.
 CORPAUTH: University of Denver
 TITLE: Sociological Analysis of Reduction of
 Hazardous Radiation in Uranium Mines
 PUB DESC: NIOSH-75-171
 PUB DATE: 1975
 CATEGORY: SOCIOLOGY

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 PUB DESC: Tellus 18:427-433
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 CATEGORY: AIR; Lead

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 TITLE: Frequency of Pulmonary Carcinoma in
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 CORPAUTH: Warsaw
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 PUB DESC: HW-81746
 PUB DATE: 1964
 CATEGORY: INHALATION; Uranium

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AUTHOR: Perraud, R.; Chameaud, J.;
 TITLE: Lung Cancer Induced in Rats by Inhalation
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 TITLE: Exptl Pulmonary Cancers in Rat Following
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 PUB DESC: Compt. Rend. Ser. D., 270:2594-2595
 PUB DATE: 1970
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AUTHOR: Pertsov, L.A.; Popov, D.K.;
 TITLE: Polonium-210 in the Human Body and in the
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 PUB DESC: AEC-Tr-7030, pp. 163-167
 PUB DATE: 1969
 CATEGORY: BACKGROUND; Man

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AUTHOR: Petrow, H.G.
 CORPAUTH: NYU
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 PUB DESC: NYO-3086-5, 157 pp.
 PUB DATE: 1966
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 CORPAUTH: NYU
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 PUB DATE: 1968
 CATEGORY: RATIO; Radium/Lead

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 PUB DESC: LF-46, 281-283
 PUB DATE: 1973
 CATEGORY: LUNG; Model

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 PUB DESC: Journal of Radiological Electrol. Med.
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 PUB DATE: 1966
 CATEGORY: METABOLISM; Radon

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AUTHOR: Pirchan, A.; Sikl, H.
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 PUB DESC: American Journal of Cancer 16:681-722
 PUB DATE: 1932
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 PUB DESC: Proc. 6th Conference Rad. Hygiene 2
 PUB DATE: 1973
 CATEGORY: PATHOLOGY; Radon

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AUTHOR: Plattner, H.
 CORPAUTH: University of Innsbruck
 TITLE: Animal Experiments Concerning Radiation
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 PUB DESC: Strahlentherapie 136:750-757
 PUB DATE: 1968
 CATEGORY: INHALATION; Radon

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 TITLE: Lead-210, Bismuth-210, Polonium-210 in
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 PUB DATE: 1972
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AUTHOR: Pohl-Rueling, J.
 CORPAUTH: Gastein
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 PUB DATE: 1973
 CATEGORY: PATHOLOGY; Radon

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 TITLE: Radon-222 Concentration in Atmosphere of
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 PUB DESC: Health Physics 16:579-584
 PUB DATE: 1969
 CATEGORY: AIR; Radon

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 TITLE: Biophysik. Untersuch. Inkorp. Nat.
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 Zerfallisprodukte
 PUB DESC: Osterreich. Akad. Wissensch.
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 PUB DATE: 1965
 CATEGORY: METABOLISM; Radon

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AUTHOR: Pohl, E.
 CORPAUTH: University of Salzburg
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 Permissible Concentrations for Radon-220 and
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 PUB DESC: Austrian Assoc. Rad. Prot. Ann. Meet.,
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 CATEGORY: STANDARDS; Radon

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AUTHOR: Pohl, E.; Pohl-Rueling, J.
 CORPAUTH: Austria
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 PUB DATE: 1967
 CATEGORY: DOSIMETRY; Lung

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AUTHOR: Popretinskii, I.F.
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 CATEGORY: DIFFUSION; Coefficient

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AUTHOR: Porstendoerfer, J.
 CORPAUTH: Giessen
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 PUB DESC: Z. Phys. 213:384-396
 PUB DATE: 1968
 CATEGORY: AIR; Radon

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AUTHOR: Pradel, J.
 CORPAUTH: Fontenay-aux-R
 TITLE: Radon Protection in Uranium Mines
 PUB DESC: CEA-CONF-2555
 PUB DATE: 1973
 CATEGORY: RADON

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AUTHOR: Raabe, O.G.
 TITLE: Absorption of Radon Daughters to some
 Submicron Polydisperse Aerosols and to Some
 Natural Aerosols
 PUB DESC: Ph.D. Thesis, University of Rochester
 PUB DATE: 1956
 CATEGORY: AIR; Radon

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AUTHOR: Raabe, O.G.
 CORPAUTH: Lovelace
 TITLE: Concerning Interactions that Occur
 Between Radon Decay Products and Aerosols
 PUB DESC: Health Physics 17:177-185
 PUB DATE: 1969
 CATEGORY: AIR; Radon

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AUTHOR: Raabe, O.G.
 CORPAUTH: Lovelace
 TITLE: Relationship of Lead-210 and Inhalation
 Exposure to Radon-222
 PUB DESC: Health Physics 18:733-734
 PUB DATE: 1970
 CATEGORY: WORK LEVEL

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 TITLE: Body Accumulation of Lead-210,
 Polonium-210 in Rats after Radon-222
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 PUB DESC: Health Phys. Probs. Internal Contam.
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 PUB DATE: 1973
 CATEGORY: METABOLISM; Radon

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AUTHOR: Radford, E.P.; Hunt, V.R.
 CORPAUTH: Harvard
 TITLE: Polonium-210: A Volatile Radioelement in
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 PUB DESC: Science 143:247-249
 PUB DATE: 1964
 CATEGORY: DOSIMETRY; Lung

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AUTHOR: Raghavayya, M.
 CORPAUTH: Bhabha
 TITLE: Estimation of Concentration of Radon
 Dissolved in Uranium Mine Waters
 PUB DESC: Radiation Protection Monitoring pp.
 227-235
 PUB DATE: 1969
 CATEGORY: WATER; Radon

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AUTHOR: Raghavayya, M.; Jones, J.H.
 CORPAUTH: Bhabha and Salt Lake City
 TITLE: Wire Screen-Filter Paper Combination for
 Measure of Fractions of Unattached Radon
 Daughters U Mines
 PUB DESC: Health Physics 26:417-429
 PUB DATE: 1974
 CATEGORY: WORK LEVEL

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AUTHOR: Raghavayya, M.; Khan, A.H.
 CORPAUTH: Bhabha
 TITLE: Radon Emanation from Uranium Mill
 Tailings Used as Backfill in Mines
 PUB DESC: CONF-730915
 PUB DATE: 1973
 CATEGORY: TAILINGS

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AUTHOR: Rangarajan, C.;
 CORPAUTH: Bhabha
 TITLE: Relative Concentrations of Radon
 Daughters in Surface Air and Significance of
 Ratios
 PUB DESC: J. Geophysical Research 80:845-848
 PUB DATE: 1975
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AUTHOR: Rekkandt, A.A.; Dobrachev, Yu.P.
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 Oxygen Consumption...
 PUB DESC: Vopr. Kurortol. Fizioter. Lech. Fiz.
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 PUB DATE: 1973
 CATEGORY: DOSE; Response

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AUTHOR: Rezanov, I.I.
 TITLE: Uranium Levels in Food
 PUB DESC: Voprosy Pitanii 28:87-88
 PUB DATE: 1969
 CATEGORY: FOOD; Uranium

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AUTHOR: Roe, F.J.C.; Walters, M.A.
 TITLE: Some Unsolved Problems in Lung Cancer
 Etiology
 PUB DESC: Progress in Experimental Tumor
 Research 6:127-227
 PUB DATE: 1965
 CATEGORY: EPIDEMIOLOGY

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AUTHOR: Roehnsch, W.
 CORPAUTH: Berlin
 TITLE: Use of Mining Refuse with Increased
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 PUB DESC: SZS-157
 PUB DATE: 1974
 CATEGORY: BACKGROUND; Buildings

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 TITLE: Biosynthesis of Tissue Proteins in Rats
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 PUB DESC: Vop. Kurortol. Fizioter.
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 PUB DATE: 1969
 CATEGORY: METABOLISM; Radon

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 AUTHOR: Ruckelshaus, W.D.
 TITLE: Radiation Protection Guidance for Federal
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 PUB DESC: Federal Register 36, 12921
 PUB DATE: 1971
 CATEGORY: STANDARDS; Radon

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 AUTHOR: Rundo, J.; Markun, P.;
 CORPAUTH: Argonne
 TITLE: Variability in Exhalation of Radon
 PUB DESC: Rad. Res. Soc. 24th Annual, San
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 PUB DATE: 1976
 CATEGORY: INHALATION; Radon

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 AUTHOR: Saccomanno, G.
 CORPAUTH: St. Mary's Hospital, Grand Junct.,
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 TITLE: Uranium Miner Lung Cancer Study
 PUB DESC: COO-1826-35 (Prog. Rept. Jul'75-Jul'76)
 PUB DATE: 1976
 CATEGORY: PATHOLOGY; Uranium

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 AUTHOR: Saccomanno, G.; Archer, V.E.;
 TITLE: Lung Cancer of Uranium Miners on the
 Colorado Plateau
 PUB DESC: Health Physics 10:1195-1201
 PUB DATE: 1964
 CATEGORY: PATHOLOGY; Uranium

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 AUTHOR: Schiager, K.J.
 CORPAUTH: Los Alamos
 TITLE: Analysis of Radiation Exposures on or
 Near Uranium Mill Tailing Piles
 PUB DESC: Radiation Data and Reports 15:411-425
 PUB DATE: 1974
 CATEGORY: TAILINGS

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 AUTHOR: Schink, D.R.; Guinasso, N.L.;
 TITLE: Radon Profiles in the Sea and A Measure
 of the Air/Sea Exchange
 PUB DESC: IEEE, Trans. Nucl. Soc. NS-17:184-193
 PUB DATE: 1970
 CATEGORY: WATER; Radon

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 AUTHOR: Schurigin, A.S.; Hollocher, T.C.
 TITLE: Radiation-Induced Lung Cancers Among
 Uranium Miners
 PUB DESC: The Nuclear Fuel Cycle (MIT Press),
 pp. 9-40
 PUB DATE: 1975
 CATEGORY: EPIDEMIOLOGY

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 AUTHOR: Scott, L.M.; Bahler, K.W.;
 CORPAUTH: Union Carbide Corporation, Nuclear
 Division
 TITLE: Mortality Experience of Uranium and
 Nonuranium Workers
 PUB DESC: Health Physics 23:555-557
 PUB DATE: 1972
 CATEGORY: EPIDEMIOLOGY; Uranium

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 AUTHOR: Scott, L.M.; West, C.M.
 CORPAUTH: Y-12
 TITLE: Excretion of Polonium-210 Oxide Following
 Accidental Inhalation
 PUB DESC: Health Physics 28:563-565
 PUB DATE: 1975
 CATEGORY: INHALATION; Polonium

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 AUTHOR: Segall, A.
 TITLE: Measurement of Background Radiation for
 Epidemiologic Studies
 PUB DESC: American Journal Public Health
 52:1660-1668
 PUB DATE: 1962
 CATEGORY: EPIDEMIOLOGY

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 AUTHOR: Seltser, R.
 TITLE: Lung Cancer and Uranium Mining: A
 Critical Review
 PUB DESC: Archives Environmental Health
 10:932-936
 PUB DATE: 1965
 CATEGORY: EPIDEMIOLOGY

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 AUTHOR: Serdyukova, A.S.; Kapitanov, Yu.T.
 TITLE: Isotopes of Radon and Its Decay Products
 in Nature
 PUB DESC: Book, 295 pp. Atomizdat, 2nd ed., 1.78
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 PUB DATE: 1975
 CATEGORY: BACKGROUND; Radon

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 AUTHOR: Servant, J.
 TITLE: Temporal and Spatial Variations of the
 Concentration of Short-Lived Decay Products
 of Radon in the Lower Atmosphere
 PUB DESC: Tellus 18:663-671
 PUB DATE: 1966
 CATEGORY: AIR; Radon

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 AUTHOR: Sevc, J.; Kunz, E.
 TITLE: Lung Cancer in Uranium Miners and
 Long-Term Exposure to Radon Daughter Products
 PUB DESC: Health Physics 30:433-437
 PUB DATE: 1976
 CATEGORY: PATHOLOGY; Uranium

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 AUTHOR: Shalaveyus, S.S.; Styro, B.I.
 TITLE: Polonium-210 in the Atmosphere and its
 Ratio to Lead-210
 PUB DESC: Nuclear Meteorology Proc., Obninsk
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 PUB DATE: 1974
 CATEGORY: AIR; Polonium

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 AUTHOR: Shapiro, J.
 TITLE: Evaluation of Pulmonary Radiation Dosage
 from Radon and Its Daughter Products
 PUB DESC: UR-298
 PUB DATE: 1954
 CATEGORY: RADON; Dosimetry

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 AUTHOR: Shapiro, J.
 TITLE: Radiation Dosage from Breathing Radon and
 Its Daughter Products
 PUB DESC: Archives of Industrial Health
 14:169-177
 PUB DATE: 1956
 CATEGORY: DOSIMETRY; Lung

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AUTHOR: Shearer, S.D.; Sill, C.W.
 CORPAUTH: USPHS & USAEC
 TITLE: Evaluation of Atmospheric Radon in the
 Vicinity of Uranium Mill Tailings
 PUB DESC: Health Physics 17:77-88
 PUB DATE: 1969
 CATEGORY: TAILINGS

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AUTHOR: Shleien, B.; Friend, A.G.
 TITLE: Local Ground-Level Air Concentrations of
 Lead-210 at Winchester, Massachusetts
 PUB DESC: Nature 210:579-580
 PUB DATE: 1966
 CATEGORY: AIR; Lead

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AUTHOR: Shleien, B.; Hansen, O.G.;
 TITLE: Tentative Method of Analysis for
 Radon-222 Content of the Atmosphere
 PUB DESC: Health Lab. Sci. 6:114-129
 PUB DATE: 1969
 CATEGORY: MONITORING; Radon

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AUTHOR: Shorter, R.G.
 CORPAUTH: Mayo Clinic
 TITLE: Cell Kinetics of Respiratory Tissues,
 Both Normal and Stimulated
 PUB DESC: Morphology of Experimental Respiratory
 Cancer 45-61
 PUB DATE: 1970
 CATEGORY: LUNG; Model

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AUTHOR: Sikl, H.
 TITLE: Present Status of Knowledge About
 Jachymov Disease
 PUB DESC: Unio Internat. Contra Cancrum Acta
 6:1366
 PUB DATE: 1950
 CATEGORY: EPIDEMIOLOGY

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AUTHOR: Snelling, R.N.
 TITLE: Environmental Survey of Uranium Mill
 Tailings Pile, Mexican Hat, Utah
 PUB DESC: Rad. Health Data Repts 12:17-28
 PUB DATE: 1971
 CATEGORY: TAILINGS

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AUTHOR: Snihs, J.O.; Schnell, P.O.;
 TITLE: Some Measurements on Lead-210 in
 Non-Uranium Miners in Sweden
 PUB DESC: SSI-1974-027, 13 pp. CONF-740935-3
 PUB DATE: 1974
 CATEGORY: BACKGROUND; Lead

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AUTHOR: Snyder, W.S.
 CORPAUTH: ORNL
 TITLE: Procedures for Calculating MPC of Uranium
 in Man
 PUB DESC: HASL-58 (Symposium Occ. Health Exp.,
 Pract. in U. Industry)
 PUB DATE: 1959
 CATEGORY: DOSIMETRY; Uranium

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AUTHOR: Snyder, W.S.
 TITLE: Dosimetry of the ICRP Model for the Lung
 PUB DESC: Radiation Dosimetry 1:147-159
 (Belgrade)
 PUB DATE: 1971
 CATEGORY: DOSIMETRY; Lung

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AUTHOR: Snyder, W.S.; Hilyer, M.J.C.;
 TITLE: Weight of the Lungs Plus Fluids for
 Reference Man
 PUB DESC: ORNL-4811, pp. 97-98
 PUB DATE: 1972
 CATEGORY: LUNG; Model

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AUTHOR: Snyder, W.S.; ICRP 2
 CORPAUTH: Chmn, Task Group
 TITLE: Respiratory System: Lungs
 PUB DESC: ICRP No. 23, pp. 158-173 (Reference
 Man Rept)
 PUB DATE: 1975
 CATEGORY: LUNG; Model

<418>

AUTHOR: Sofer, D.H.
 CORPAUTH: Parkville, Austra
 TITLE: Review of Physical Data Used in Radium
 and Radon Dosimetry
 PUB DESC: Australas. Radiol. 14:443-450
 PUB DATE: 1970
 CATEGORY: RATIO; Radium/Radon

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AUTHOR: Soilleux, P.J.
 CORPAUTH: Sutton, England
 TITLE: Measure of Size Spectrum and Charge to
 Total Ratio of Condensation Nuclei With
 Natural Radon Daughters
 PUB DESC: Health Physics 18:245-254
 PUB DATE: 1970
 CATEGORY: AIR; Radon

<420>

AUTHOR: Solnicka, H.; Bischof, W.
 TITLE: Feasibility of Estim. Exposure of Uranium
 Mining Personnel...by Determ. of Polonium in
 Hair
 PUB DESC: Prac. Lek. 23:110-12
 PUB DATE: 1971
 CATEGORY: POLONIUM

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AUTHOR: Sorokin, S.P.
 CORPAUTH: Harvard
 TITLE: The Cells of the Lung
 PUB DESC: Morphology of Experimental Respiratory
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 PUB DATE: 1970
 CATEGORY: LUNG; Model

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AUTHOR: Spencer, N.; Spittel, L.;
 TITLE: Control of Radiation Exposure in Uranium
 Mines: A Cost and Economic Analysis
 PUB DESC: BMC-UR-42, 66 pp.
 PUB DATE: 1968
 CATEGORY: ECONOMICS

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AUTHOR: Spitz, H.B.; Cohen, N.;
 CORPAUTH: NYU
 TITLE: Radon-222 Exposures and Lead-210 Body
 Burdens in Selected Residents of Grand
 Junction, Colorado
 PUB DESC: Health Physics 29:901
 PUB DATE: 1975
 CATEGORY: TAILINGS

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AUTHOR: Spitz, H.B.; Wrenn, M.E.
 TITLE: Diurnal Variation of Radon-222 in
 Residential Structures in Grand Junction,
 Colorado
 PUB DESC: HASL-287
 PUB DATE: 1974
 CATEGORY: AIR; Radon

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AUTHOR: Spodenkiewicz, T.; Gawronski, A.
 CORPAUTH: Inst. Nucl. Res., Poland
 TITLE: Method for Determining Radon-222 in Air
 Exhaled
 PUB DESC: Nukleonika 10:27-37 (AEC-Tr-6489)
 PUB DATE: 1965
 CATEGORY: DOSIMETRY; Radon

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AUTHOR: Stahlhofen, W.
 CORPAUTH: University of Giessen
 TITLE: Internal Radiation Exposure by Lead-210
 and Polonium-210
 PUB DESC: Natuerliche Strahlenexposition des
 Menschen
 PUB DATE: 1974
 CATEGORY: DOSIMETRY; Lung

<427>

AUTHOR: Stanley, L.J.; Hess, V.F.
 TITLE: Distribution of Radon-222, Radon-220 and
 Their Decay Products Above and Below Ground
 PUB DESC: J. Geophysical Research 63:373-390
 PUB DATE: 1958
 CATEGORY: SOIL; Radon

<428>

AUTHOR: Steinhäusler, F.
 TITLE: Long-term Measurements of Radon-220,
 Radon-222, Lead-214, and Lead-213
 Concentrations in the Air of Private and
 Public Buildings and Their Dependence on
 Meteorological Parameters
 PUB DESC: Health Physics 29:705-713
 PUB DATE: 1975
 CATEGORY: AIR; Radon

<429>

AUTHOR: Stewart, C.G.; Simpson, S.D.
 CORPAUTH: Chalk River
 TITLE: Hazards of Inhaling Radon-222 and Its
 Short-Lived Daughters: Consideration of
 Proposed (MPC)a
 PUB DESC: Rad. Health Saf. Min. Mill. Nucl.
 Materials 1:333-357
 PUB DATE: 1964
 CATEGORY: STANDARDS; Radon

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AUTHOR: Stuart, B.O.; Beasley, T.M.
 TITLE: Selective Tissue Accumulation of Uranium
 and Thorium After Inhalation of Uranium Ore
 Dust
 PUB DESC: BNWL-122
 PUB DATE: 1965
 CATEGORY: METABOLISM; Uranium

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AUTHOR: Stuart, B.O.; Busch, R.H.;
 TITLE: Effect in Beagles of Life-Span Inhaled
 Exposure to Simulated Uranium Mine
 Atmosphere: Radon Daughters, Ore Dust,
 Cigarette Smoke
 PUB DESC: BNWL-1750 (Pt.1)
 PUB DATE: 1973
 CATEGORY: CORRELATION; Biological

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AUTHOR: Stuart, B.O.; Filipy, R.E.;
 TITLE: Biological Effect Inhaled Radon
 Daughters, Uranium Ore Dust and Cigarette
 Smoke in Beagle Dogs
 PUB DESC: BNWL-1850 (Pt.1)
 PUB DATE: 1974
 CATEGORY: CORRELATION; Biological

<433>

AUTHOR: Stuart, B.O.; Jackson, P.O.
 TITLE: Inhalation of Uranium Ores
 PUB DESC: ERDA-93
 PUB DATE: 1975
 CATEGORY: INHALATION; Uranium

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AUTHOR: Stuart, B.O.; Willard, D.H.;
 TITLE: Chronic Exposure of Dogs to Simulated
 Uranium Mine Atmospheres
 PUB DESC: BNWL-1306 (Pt.1), pp. 60-61
 PUB DATE: 1970
 CATEGORY: METABOLISM; Radon

<435>

AUTHOR: Stuart, B.O.; Willard, D.H.
 TITLE: Uranium Mine Air Contaminants in Dogs
 Hamsters
 PUB DESC: Inhalation Carcinogenesis, pp. 413-427
 PUB DATE: 1970
 CATEGORY: WORK LEVEL

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AUTHOR: Stuart, B.O.; Willard, D.H.;
 CORPAUTH: BNWL
 TITLE: Studies of Inhaled Radon Daughters,
 Uranium Ore, Ore Dust, Diesel Exhaust and
 Cigaret Smoke in Dog, Hamster
 PUB DESC: Inhaled Particles 3:543-548
 PUB DATE: 1971
 CATEGORY: CORRELATION; Biological

<437>

AUTHOR: Sugihara, T.
 CORPAUTH: Kofu
 TITLE: Contents of Bismuth-214 and Radon in
 Radioactive Mineral Spring Waters in Japan
 PUB DESC: Yaman. Daig. Gak. Ken. Hok. 19:272-279
 PUB DATE: 1968
 CATEGORY: WATER; Radon

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AUTHOR: Sultzter, M.; Hursh, J.B.
 TITLE: Polonium in the Urine of Miners Exposed
 to Radon
 PUB DESC: UR-266
 PUB DATE: 1953
 CATEGORY: METABOLISM; Radon

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AUTHOR: Sundell, L.; Axelsson, O.;
 TITLE: Swedish Pilot Study of Lung Cancer Among
 Miners
 PUB DESC: L. AEKARTIDNINGEN 68, 5687-5693
 (BNWL-Tr-86)
 PUB DATE: 1971
 CATEGORY: EPIDEMIOLOGY

<440>

AUTHOR: Suomela, M.; Kahlos, H.
 CORPAUTH: Finland
 TITLE: Elimination Rate and Radiation Exposure
 Following Ingestion of Radon-222 Rich Water
 PUB DESC: Health Physics 23:641-652
 PUB DATE: 1972
 CATEGORY: INGESTION; Radon

<441>

AUTHOR: Swift, J.J.; Hardin, J.M.;
 CORPAUTH: EPA, Washington
 TITLE: Potential Radiological Impact on Airborne
 Releases and Gamma Rad. to Individuals Near
 Inactive Uranium Tailings
 PUB DESC: EPA-520/1-76-001,
 PUB DATE: 1976
 CATEGORY: TAILINGS

<442>

AUTHOR: Takata, N.; Watanabe, H.
 TITLE: Lead-210 Content in Foodstuffs and Its
 Dietary Intake in Japan
 PUB DESC: Journal of Radiation Research 9:29-34
 PUB DATE: 1968
 CATEGORY: FOOD; Lead

<443>

AUTHOR: Tanner, A.B.
 CORPAUTH: Geological Survey, Washington
 TITLE: Radon Migration in the Ground: A Review
 PUB DESC: Natural Radiation Environment I:161-190
 PUB DATE: 1964
 CATEGORY: SOIL; Radon

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AUTHOR: Teneva, M.
 TITLE: Dependence of Natural Radioactivity of
 Surface Layer on Soil Conditions
 PUB DESC: Khidrol. Meteorol. 21
 PUB DATE: 1972
 CATEGORY: AIR; Radon

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AUTHOR: Ter Haar, G.L.; Holtzman, R.B.;
 CORPAUTH: ANL
 TITLE: Lead and Lead-210 in Rainwater
 PUB DESC: Nature 216:353-355
 PUB DATE: 1967
 CATEGORY: WATER; Lead

<446>

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