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Bibliography on the Dosimetry of Radon and Radon Daughters

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

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BIBLIOGRAPHY ON THE DOSIMETRY OF RADON AND RADON DAUGHTERS

C. F. Holloway J. E. Turner
Health and Safety Research Division

M. L. Johnson A. S. Loebel
Energy Division

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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

The authors wish to thank Phillip J. Walsh for a number of helpful suggestions in compiling this Bibliography.

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 PUB DESC: Gig. Sanit. 32:64-67 (Tr=TT-67-51409)
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 CORPAUTH: University of Chicago
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 CATEGORY: MONITORING; Radon

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 TITLE: Indoor and Outdoor Measure of Natural
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 PUB DATE: 1967
 CATEGORY: DOSIMETRY; Lung

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 CORPAUTH: University of Texas
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 CATEGORY: BACKGROUND; Buildings

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 PUB DATE: 1976
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 CATEGORY: TAILINGS

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 PUB DATE: 1969
 CATEGORY: WORK LEVEL

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 PUB DATE: 1973
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 PUB DATE: 1971
 CATEGORY: PATHOLOGY; Polonium

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 CATEGORY: AIR; Radon

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 CATEGORY: DOSIMETRY; Radon

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 CATEGORY: EPIDEMIOLOGY; Uranium

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 CATEGORY: DOSIMETRY; Radon

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 CORPAUTH: Las Vegas
 TITLE: Rad Survey of Dwellings in Cane Valley, Arizona and Utah for Use of Uranium Mill Tailings
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 PUB DATE: 1975
 CATEGORY: TAILINGS

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 CATEGORY: DOSIMETRY; Micro

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 CORPAUTH: Borough Polytech, London
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 PUB DESC: Health Physics 13:431-443
 PUB DATE: 1967
 CATEGORY: DOSIMETRY; Lung

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

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

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 CORPAUTH: ERDA
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 TITLE: Elimination of Radon from the Body
 PUB DESC: HASL-32
 PUB DATE: 1958
 CATEGORY: METABOLISM; Radon

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 AUTHOR: Harley, W.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

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 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

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 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

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 CORPAUTH: University of Freiburg
 TITLE: Comment on Paper by Poet, Moore, Martell:
 "Pb210, Bi210, Po210 in the Atmosphere:
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 PUB DESC: Journal Geophysical Research
 78:7155-7156
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 CORPAUTH: Bur. Mines, Salt Lake City
 TITLE: Chemical Stabilization of the Uranium
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 PUB DESC: U.S. Bur. of Mines Rept. of Investig
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 CATEGORY: TAILINGS

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 CORPAUTH: Charles Univ.
 TITLE: Natural Radioactive Aerosols in
 Ground-Level Air...Radiological Exposure of
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 PUB DESC: Health Physics 11:553-566
 PUB DATE: 1965
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 AUTHOR: Haywood, F.F.; Goldsmith, W.A.;
 TITLE: Assessment of Radiological Impact of the
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 CORPAUTH: Sutton, England
 TITLE: Acceptable Concentration of Radon in
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 PUB DESC: Internat. J. Air Water Pollution
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 CORPAUTH: Berlin
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 PUB DESC: Deut. Gesundheitsw. 23:1953-1954
 PUB DATE: 1968
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 CORPAUTH: USPHS
 TITLE: Mathematical Model for Determining Low
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 PUB DESC: Health Physics 14:119-125
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 CORPAUTH: National Academy of Sciences
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 CATEGORY: EPIDEMIOLOGY; Radon

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 TITLE: Phagocytosis Mucous Flow and Ciliary
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 PUB DESC: Archives Environmental Health 6:61
 PUB DATE: 1963
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 AUTHOR: Hill, A.
 CORPAUTH: Uravan, Colorado
 TITLE: Rapid Measurement of Radon Decay Products
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 PUB DESC: Health Physics 28:472-474
 PUB DATE: 1975
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 AUTHOR: Hill, C.R.
 TITLE: Natural Occurrence of Unsupported
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 PUB DESC: Health Physics 9:952-953
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 CORPAUTH: Inst. Cancer Res, Surrey
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 PUB DESC: Nature 208:423-428
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 TITLE: Routes of Uptake of Polonium-210 into
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 CORPAUTH: Pribem, Czech
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 PUB DESC: Strahlentherapie 140:573-576
 PUB DATE: 1970
 CATEGORY: METABOLISM; Polonium

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 CORPAUTH: USPHS
 TITLE: History of the Exposure of Miners to Radon
 PUB DESC: Health Physics 16:547-552
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 AUTHOR: Holleman, D.F.
 CORPAUTH: Colorado State University
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 PUB DATE: 1968
 CATEGORY: DOSIMETRY; Lung

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 PUB DESC: ORNL-5109, 1,212 references
 PUB DATE: 1975
 CATEGORY: TAILINGS

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 TITLE: Sources of Lead-210 in Uranium Miners
 PUB DESC: Health Physics 18, 105-112

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

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 CORPAUTH: ANL
 TITLE: Lead-210 and Polonium-210 in Potable
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 PUB DESC: Natural Radiation Environment I:227-237
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 CATEGORY: WATER

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 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

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 AUTHOR: Holtzman, R.B.; Simmons, D.V.;
 TITLE: Distribution of Radium-226, Lead-210,
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 CATEGORY: RATIO

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 CATEGORY: LUNG; Model

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 TITLE: Urban-Rural Climatology of Atmospheric
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 CORPAUTH: Weather Bureau and USNRes., Washington
 TITLE: Simultaneous Measurements of Radon-222,
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 AUTHOR: Hursh, J.B.
 CORPAUTH: University of Rochester
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 PUB DESC: ERDA-93, pp. 26-34
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 CATEGORY: STANDARDS; Uranium

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 PUB DESC: J. Applied Physiology 28:268-274
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 PUB DESC: Health Physics 11:465-476
 PUB DATE: 1965
 CATEGORY: METABOLISM; Radon

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 TITLE: Uranium Mining
 PUB DESC: Inhalation Risks from Radioact.
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AUTHOR: ICRP 2
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 PUB DATE: 1959
 CATEGORY: DIFFUSION; Coefficient

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 CATEGORY: SOIL; Radon

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 CATEGORY: DOSIMETRY; Lung

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 CORPAUTH: Berlin
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 PUB DATE: 1972
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AUTHOR: Jacobi, W.
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 PUB DESC: Biophysik 10, 103-114
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 PUB DATE: 1973
 CATEGORY: PATHOLOGY; Radon

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AUTHOR: Jacobi, W.
 CORPAUTH: Meitner Inst., Berlin
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 CATEGORY: WORK LEVEL

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 CORPAUTH: Munich, Inst. Rad. Prot.
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 PUB DESC: J. Geophysical Research 68:3799-3814
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 CATEGORY: AIR; Radon

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 PUB DATE: 1974
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AUTHOR: Jacoe, P.W.
 TITLE: Occurrence of Radon in Non-Uranium Mines
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 PUB DESC: Archives Ind. Hyg. Occup. Medicine
 8:118
 PUB DATE: 1953
 CATEGORY: AIR; Radon

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

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 PUB DESC: Proc. 2nd Symp. Health Physics
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 CATEGORY: LEAD

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 PUB DESC: COO-2044-5
 PUB DATE: 1972
 CATEGORY: METABOLISM; Polonium

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

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 TITLE: Radiological Health Significance of Radon
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 PUB DESC: CONF-730915 (Symp. on Noble Gases)
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 AUTHOR: Jonassen, N.
 CORPAUTH: Tech. University, Denmark
 TITLE: Effect of Atmospheric Pressure Variations
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 PUB DATE: 1975
 CATEGORY: RATIO

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

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 CORPAUTH: Bhabha
 TITLE: Investig. on Lead-210 Concns in Various
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 PUB DESC: Health Physics 20:665-668
 PUB DATE: 1971
 CATEGORY: AIR; Lead

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

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 AUTHOR: Kahlos, H.; Suomela, M.
 CORPAUTH: Helsinki
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 PUB DATE: 1974
 CATEGORY: LUNG; Model

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 CORPAUTH: EPA, Las Vegas
 TITLE: Radiologic Considerations of Geothermal
 Resources in Western United States
 PUB DESC: Amer. Association. Pet. Geol. Bulletin
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 CATEGORY: GEOTHERMAL; Radon

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 PUB DATE: 1971
 CATEGORY: FOOD CHAIN

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 AUTHOR: Kaznacheev, V.P.
 CORPAUTH: Novosibirsk
 TITLE: Deuterium and Free Radicals in Radon
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 PUB DATE: 1973
 CATEGORY: WATER; Radon

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 TITLE: Radium, Radon, Daughter Products in
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 AUTHOR: Kerr, G.D.
 CORPAUTH: ORNL
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 CATEGORY: MONITORING; Radon

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

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 AUTHOR: Khandekar, R.N.; Anand, S.J.S.
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 PUB DESC: Health Physics 20:83-85
 PUB DATE: 1971
 CATEGORY: BACKGROUND; Man

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 AUTHOR: Khandekar, R.N.; Meyers, O.
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 CATEGORY: RATIO; Radium/Lead

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 CATEGORY: SMOKING; Uranium

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

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 TITLE: Re: Radon Daughter Distrib. within Mucous
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 PUB DATE: 1970
 CATEGORY: LUNG; Physiology

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 CATEGORY: ECONOMICS

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 CATEGORY: PATHOLOGY; Lung

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 AUTHOR: Kotrappa, P.
 CORPAUTH: University of Rochester
 TITLE: Calculation of Burden and Dose to
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 PUB DATE: 1969
 CATEGORY: DOSIMETRY; Lung

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 AUTHOR: Kotrappa, P.; Bhanti, D.P.;
 CORPAUTH: Bhabha
 TITLE: Diffusion Sampler Useful for Measuring
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 PUB DESC: Z. Geophys. 29:155-162
 PUB DATE: 1975
 CATEGORY: DIFFUSION; Coefficient

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 CORPAUTH: Bhabha
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 Decay Products of Thoron: Dependence on
 Ventil. Humidity
 PUB DESC: Health Physics 31:378-380
 PUB DATE: 1976
 CATEGORY: DIFFUSION; Coefficient

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 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

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 PUB DESC: Earth Planetary Science Letters
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 PUB DATE: 1975
 CATEGORY: RATIO; Radium/Lead

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 PUB DESC: Proceedings 3rd International
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 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

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 AUTHOR: Kruger, J.; Andrews, M.
 CORPAUTH: Pretoria
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 PUB DESC: J. Aerosol. Science 7:21-36
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 PUB DESC: American Journal of Science 252:76-86
 PUB DATE: 1954
 CATEGORY: GEOTHERMAL; Radon

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 CATEGORY: PATHOLOGY; Uranium

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 PUB DESC: Arch. Environmental Health 27:254-258
 PUB DATE: 1973
 CATEGORY: RATIO; Lead/Polonium

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 Pollutants, 1. Data. 2. Lesions. 3.
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 PUB DATE: 1974
 CATEGORY: DOSE; Response

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 AUTHOR: Landahl, H.D.
 TITLE: Removal of Air-Borne Droplets by the
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 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.;
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 PUB DESC: CONF-720505, pp. 168-180 (Hanford Symp. Rad. Carcin.)
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 TITLE: Lead-210 Studies in Beagles
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 CORPAUTH: EPA, Washington
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 CORPAUTH: Boulder, Colorado
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 CORPAUTH: NIOSH, Cincinnati
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 CORPAUTH: University of Pittsburgh
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 CATEGORY: DOSIMETRY; Radon

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 CORPAUTH: Inst. Biophysics, Moscow
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 CORPAUTH: University of California, Davis
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 PUB DATE: 1969
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 CORPAUTH: NYU
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 TITLE: Conceptual Model of the Airway Branch for
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 PUB DATE: 1973
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 CORPAUTH: University of Innsbruck
 TITLE: Animal Experiments Concerning Radiation
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 PUB DATE: 1969
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 PUB DESC: Austrian Assoc. Rad. Prot. Ann. Meet.,
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 CORPAUTH: Austria
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 PUB DATE: 1967
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 CORPAUTH: Giessen
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 CORPAUTH: Fontenay-aux-R
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 PUB DESC: CEA-CONF-2555
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 CATEGORY: RADON

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 AUTHOR: Raabe, O.G.
 TITLE: Absorption of Radon Daughters to some
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 PUB DESC: PhD. Thesis, University of Rochester
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 CORPAUTH: Lovelace
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 CATEGORY: AIR; Radon

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 CORPAUTH: Lovelace
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 PUB DESC: Health Physics 18:733-734
 PUB DATE: 1970
 CATEGORY: WORK LEVEL

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 CORPAUTH: Harvard
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 CATEGORY: DOSIMETRY; Lung

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 CORPAUTH: Bhabha
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 PUB DESC: Radiation Protection Monitoring pp.
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 CORPAUTH: Bhabha and Salt Lake City
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 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
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 CATEGORY: TAILINGS

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 CORPAUTH: Bhabha
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 CATEGORY: FOOD; Uranium

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 CORPAUTH: Berlin
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 CATEGORY: BACKGROUND; Buildings

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 CORPAUTH: St. Mary's Hospital, Grand Junct.,
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 PUB DATE: 1976
 CATEGORY: PATHOLOGY; Uranium

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 CATEGORY: PATHOLOGY; Uranium

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 CORPAUTH: Los Alamos
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 PUB DESC: Radiation Data and Reports 15:411-425
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 AUTHOR: Scott, L.M.; Bahler, K.W.;
 CORPAUTH: Union Carbide Corporation, Nuclear
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 PUB DATE: 1972
 CATEGORY: EPIDEMIOLOGY; Uranium

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 CORPAUTH: Y-12
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 CATEGORY: INHALATION; Polonium

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 PUB DATE: 1962
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 PUB DESC: Archives Environmental Health
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 PUB DATE: 1965
 CATEGORY: EPIDEMIOLOGY

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 PUB DESC: Book, 295 pp. Atomizdat, 2nd ed., 1.78
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 CATEGORY: BACKGROUND; Radon

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 PUB DESC: UR-298
 PUB DATE: 1954
 CATEGORY: RADON; Dosimetry

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 PUB DESC: Archives of Industrial Health
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 PUB DATE: 1956
 CATEGORY: DOSIMETRY; Lung

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 CORPAUTH: USPHS & USAEC
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 PUB DESC: Health Physics 17:77-88
 PUB DATE: 1969
 CATEGORY: TAILINGS

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 TITLE: Local Ground-Level Air Concentrations of
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 PUB DESC: Nature 210:579-580
 PUB DATE: 1966
 CATEGORY: AIR; Lead

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 PUB DESC: Health Lab. Sci. 6:114-129
 PUB DATE: 1969
 CATEGORY: MONITORING; Radon

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 CORPAUTH: Mayo Clinic
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 PUB DATE: 1970
 CATEGORY: LUNG; Model

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 PUB DESC: Unio Internat. Contra Cancrum Acta
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 CATEGORY: EPIDEMIOLOGY

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 PUB DESC: Rad. Health Data Repts 12:17-28
 PUB DATE: 1971
 CATEGORY: TAILINGS

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 PUB DESC: SSI-1974-027, 13 pp. CONF-740935-3
 PUB DATE: 1974
 CATEGORY: BACKGROUND; Lead

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 CORPAUTH: ORNL
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 PUB DESC: HASL-58 (Symposium Occ. Health Exp.,
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 PUB DATE: 1959
 CATEGORY: DOSIMETRY; Uranium

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 PUB DATE: 1971
 CATEGORY: DOSIMETRY; Lung

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 PUB DESC: ORNL-4811, pp. 97-98
 PUB DATE: 1972
 CATEGORY: LUNG; Model

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 CORPAUTH: Chmn, Task Group
 TITLE: Respiratory System: Lungs
 PUB DESC: ICRP No. 23, pp. 158-173 (Reference
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 CATEGORY: LUNG; Model

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 CORPAUTH: Parkville, Australia
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 PUB DATE: 1970
 CATEGORY: RATIO; Radium/Radon

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 CORPAUTH: Sutton, England
 TITLE: Measure of Size Spectrum and Charge to
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 PUB DESC: Health Physics 18:245-254
 PUB DATE: 1970
 CATEGORY: AIR; Radon

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 PUB DATE: 1971
 CATEGORY: POLONIUM

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 CORPAUTH: Harvard
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 PUB DESC: Morphology of Experimental Respiratory
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 CATEGORY: LUNG; Model

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 TITLE: Control of Radiation Exposure in Uranium
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 PUB DESC: RMC-UR-42, 66 pp.
 PUB DATE: 1968
 CATEGORY: ECONOMICS

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 CORPAUTH: NYU
 TITLE: Radon-222 Exposures and Lead-210 Body
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 PUB DESC: Health Physics 29:901
 PUB DATE: 1975
 CATEGORY: TAILINGS

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 TITLE: Diurnal Variation of Radon-222 in
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 PUB DESC: HASL-287
 PUB DATE: 1974
 CATEGORY: AIR; Radon

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 CORPAUTH: Inst. Nucl. Res., Poland
 TITLE: Method for Determining Radon-222 in Air
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 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
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 PUB DESC: Natuerliche Strahlenexposition des
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 PUB DATE: 1974
 CATEGORY: DOSIMETRY; Lung

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

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 TITLE: Long-term Measurements of Radon-220,
 Radon-222, Lead-214, and Lead-213
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 PUB DESC: Health Physics 29:705-713
 PUB DATE: 1975
 CATEGORY: AIR; Radon

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 AUTHOR: Stewart, C.G.; Simpson, S.D.
 CORPAUTH: Chalk River
 TITLE: Hazards of Inhalating Radon-222 and Its
 Short-Lived Daughters: Consideration of
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 PUB DESC: Rad. Health Saf. Min. Mill. Nucl.
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 PUB DATE: 1964
 CATEGORY: STANDARDS; Radon

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 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
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 Atmosphere: Radon Daughters, Ore Dust,
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 PUB DESC: BNWL-1750 (Pt. 1)
 PUB DATE: 1973
 CATEGORY: CORRELATION; Biological

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 TITLE: Biological Effect Inhaled Radon
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 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

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

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 CORPAUTH: BNWL
 TITLE: Studies of Inhaled Radon Daughters,
 Uranium Ore, Ore Dust, Diesel Exhaust and
 Cigarette Smoke in Dog, Hamster
 PUB DESC: Inhaled Particles 3:543-548
 PUB DATE: 1971
 CATEGORY: CORRELATION; Biological

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

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 TITLE: Polonium in the Urine of Miners Exposed
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 PUB DESC: UR-266
 PUB DATE: 1953
 CATEGORY: METABOLISM; Radon

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 AUTHOR: Sundell, L.; Axelson, O.;
 TITLE: Swedish Pilot Study of Lung Cancer Among
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 PUB DESC: L. AEKARTIDNINGEN 68, 5687-5693
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 PUB DATE: 1971
 CATEGORY: EPIDEMIOLOGY

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

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 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

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 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

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 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

<445>
 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>
 AUTHOR: Thomas, J.A.
 TITLE: Method for Calc'n of Absorbed Dose to Epithelium ... After Inhalation of Radon Daughters
 PUB DESC: Ann. Occup. Hygiene 7:271-284
 PUB DATE: 1964
 CATEGORY: DOSIMETRY; Radon

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 AUTHOR: Toth, A.
 TITLE: Evaluation of Radium Exposure by Measuring Exhaled Radon
 PUB DESC: Kiserl. Orvostud. 16:428-438
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 PUB DATE: 1964
 CATEGORY: INHALATION; Radon

<448>
 AUTHOR: Toth, A.
 CORPAUTH: Pecs, Hungary
 TITLE: Respiratory Dosage From Polonium-218, Lead-214 and Bismuth-214 to a Hungarian Population
 PUB DESC: Health Physics 23:281-289
 PUB DATE: 1972
 CATEGORY: DOSIMETRY; Lung

<449>
 AUTHOR: Tsivoglou, E.C.; Ayer, H.E.
 CORPAUTH: Salt Lake City
 TITLE: Emanation of Radon in Uranium Mines and Control by Ventilation
 PUB DESC: Archives Industrial Hygiene 8:125-132
 PUB DATE: 1953
 CATEGORY: AIR; Radon

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 AUTHOR: Tsivoglou, E.C.; Ayer, H.E.;
 TITLE: Occurrence of Non-Equilibrium Atmospheric Mixtures of Radon and its Daughters
 PUB DESC: Nucleonics 11:40-45
 PUB DATE: 1953
 CATEGORY: AIR; Radon

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 AUTHOR: Tsivoglou, E.C.; Ayer, H.E.
 CORPAUTH: USPHS
 TITLE: Ventilation of Uranium Mines
 PUB DESC: Archives Industrial Hygiene 10:363-371
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 PUB DATE: 1954
 CATEGORY: AIR; Radon

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