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Assessment of Occupational Exposure Due to
Intakes of Radionuclides Dose Coefficients for
Intakes of Radionuclides by Workers Methods
for Assessing Occupational Radiation Doses Due
to Intakes of Radionuclides Doses from Intakes
of Radionuclides by Adults and Young People
Icrp Publication 151: Occupational Intakes of
Radionuclides: Part 5 Indirect Methods for
Assessing Intakes of Radionuclides Causing
Occupational Exposure Intakes of Radionuclides
Limits for Intakes of Radionuclides by Workers
Standards for Intakes of Radionuclides Limits
for Intakes of Radionuclides by Workers ICRP
Publication 134 ICRP Publication 30 ICRP
Publication 130 General Concepts for the
Dosimetry of Internally Deposited
Radionuclides ICRP Publication 88 Limits for
Intakes of Radionuclides by Workers Committed
Equivalent Organ Doses and Committed Effective
Doses from Intakes of Radionuclides Annual
Limits on Intake of Radionuclides by Workers
Based on the 1990 Recommendations introduction
Radiobiassay Protocols for Responding to
spread spectrum
communication

2023-06-11

17/21

by ziemer

Assessment of Occupational Exposure Due to Intakes of Radionuclides

1999

the safety guide co sponsored by the ilo addresses the assessment of exposure due to intakes of radionuclides in the workplace and reflects the major changes which have occurred in international practice in internal dose assessment over the past decade the report further provides the necessary guidance to meet the requirements as laid down in safety series no 115 international basic safety standards for protection against ionizing radiation and for the safety of radiation sources

Dose Coefficients for Intakes of Radionuclides by Workers

1999

radioactive material is used in many human activities and whenever unsealed radioactive sources are present intakes of radionuclides by workers can occur intakes can occur by a number of routes and the monitoring of workers and the workplace is an integral part of any occupational radiation protection programme this report contains practical advice on the interpretation of such monitoring results and the assessment of committed effective doses to

workers

Methods for Assessing Occupational Radiation Doses Due to Intakes of Radionuclides

2004

provides assistance in the setting up of an indirect monitoring programme for workers this report gives technical advice on the collection and analysis of biological and physical samples used to estimate intakes of radionuclides the analytical methods described may also be applied to the monitoring of patients following medical treatment

Doses from Intakes of Radionuclides by Adults and Young People

1985

the first of a series of reports recommending annual limits for intakes of radionuclides by workers this report includes the main text for the whole series of publication 30 and data on twenty one elements having radioisotopes that are of considerable importance in radiological protection the actual values in icrp publication 30 have become obsolete with the newer dosimetry and

dose limits of icrp publication 60 and at present the dose coefficients in icrp publications 68 69 71 and 72 should be used to determine ali s however the vast body of biokinetic information in publication 30 still forms the basis of much of the calculations underlying those later reports

Icrp Publication 151: **Occupational Intakes of** **Radionuclides: Part 5**

2022-02-28

in its publications 56 67 69 71 and 72 icrp has provided age specific biokinetic models and using those models compiled dose coefficients doses per unit intake for intakes of radionuclides by members of the public committed effective doses for the inhalation or ingestion of radionuclides by workers who are occupationally exposed were given in publication 68 based on the most recent dosimetric and biokinetic models for adults the present report complements that series by addressing doses to the embryo fetus after intakes of radionuclides by a female member of the public or a female worker before or during pregnancy ingestion and inhalation of selected radionuclides of the 31 elements for which age dependent biokinetic models were provided in the previous reports are considered

Indirect Methods for Assessing Intakes of Radionuclides Causing Occupational Exposure

2000

this document provides the commission s recommendations for the design of individual monitoring programmes and the interpretation of results of measurements of intakes of radionuclides by radiation workers it follows the commission s general principles of monitoring for radiation protection of workers icrp 1977a and should be used in conjunction with those principles the main objective of the document is to give specific guidance on the design of monitoring programmes the calculation of derived reference levels and the interpretation of monitoring results since models are required to provide a link between the measured quantity and the appropriate limits or reference levels the document also gives general guidance on the models used finally specific values of derived reference levels are given for radionuclides chosen for their potential importance in occupational exposure these levels have been calculated for intake by inhalation only since this is the most likely route of intake the commission wishes to emphasis that the parameters used and the reference levels calculated in this document are appropriate for occupationally exposed adults only and that they are not intended to be used to evaluate exposure for members of the general public

Intakes of Radionuclides

1994

the first of a series of reports recommending annual limits for intakes ali s of radionuclides by workers this report includes the main text for the whole series of publication 30 and data on twenty one elements having radioisotopes that are of considerable importance in radiological protection the actual ali values in icrp publication 30 have become obsolete with the newer dosimetry and dose limits of icrp publication 60 and at present the dose coefficients in icrp publications 68 69 71 and 72 should be used to determine ali s however the vast body of biokinetic information in publication 30 still forms the basis of much of the calculations underlying those later reports

Limits for Intakes of Radionuclides by Workers

1979

in march 1987 the international commission on radiological protection established a task group which was requested to evaluate dose per unit intake for members of the public in section i this report incorporates age dependent physical models and appropriate biokinetic information section ii reports on doses per unit intake of isotopes of hydrogen carbon strontium zirconium niobium ruthenium

iodine caesium cerium plutonium americium and neptunium detailed appendices give extensive information on bone models for actinides and inhalation dose coefficients

Standards for Intakes of Radionuclides

1998

atoms radiation and radiation protection discover the keys to radiation protection in the fourth edition of this best selling textbook a variety of atomic and sub atomic processes including alpha beta and gamma decay or electron ejection from inner atom shells can produce ionizing radiation this radiation can in turn produce environmental and biological effects both harmful including dna damage and other impacts of so called radiation sickness and helpful including radiation treatment for cancerous tumors understanding the processes that generate radiation and the steps which can be taken to mitigate or direct its effects is therefore critical in a wide range of industries and medical subfields for decades atoms radiation and radiation protection has served as the classic reference work on the subject of ionizing radiation and its safeguards beginning with a presentation of fundamental atomic structure and the physical mechanisms which produce radiation the book also includes thorough discussion of how radiation can be detected and measured as well as guide lines

for interpreting radiation statistics and detailed analysis of protective measures both individual and environmental now updated by a new generation of leading scholars and researchers atoms radiation and radiation protection will continue to serve global scientific and industrial research communities readers of the fourth edition of atoms radiation and radiation protection will also find detailed updates of existing material including the latest recommendations of the icrp and ncrp treatment of current physiokinetic and dosimetric models all statistics now presented in si units making the book more globally accessible atoms radiation and radiation protection is a foundational guide for graduate students and researchers in health physics and nuclear physics as well as related industries

Limits for Intakes of Radionuclides by Workers

1979

this report assesses the levels and effects of exposure to ionizing radiation scientific findings underpin radiation risk evaluation and international protection standards this report comprises a report with two underpinning scientific annexes the first annex recapitulates and clarifies the philosophy of science as well as the scientific knowledge for attributing observed health effects in individuals and populations

to radiation exposure and distinguishes between that and inferring risk to individuals and populations from an exposure the second annex reviews the latest thinking and approaches to quantifying the uncertainties in assessments of risk from radiation exposure and illustrates these approaches with application to examples that are highly pertinent to radiation protection

ICRP Publication 134

2018-11-15

radiological risk assessment and environmental analysis comprehensively explains methods used for estimating risk to people exposed to radioactive materials released to the environment by nuclear facilities or in an emergency such as a nuclear terrorist event this is the first book that merges the diverse disciplines necessary for estimating where radioactive materials go in the environment and the risk they present to people it is not only essential to managers and scientists but is also a teaching text the chapters are arranged to guide the reader through the risk assessment process beginning with the source term where the radioactive material comes from and ending with the conversion to risk in addition to presenting mathematical models used in risk assessment data is included so the reader can perform the calculations each chapter also provides examples and working problems the book will be a critical component of the rebirth of nuclear energy now taking

place as well as an essential resource to prepare for and respond to a nuclear emergency

ICRP Publication 30

1979-08-31

designed to prepare candidates for the american board of health physics comprehensive examination part i and other certification examinations this monograph introduces professionals in the field to radiation protection principles and their practical application in routine and emergency situations it features more than 650 worked examples illustrating concepts under discussion along with in depth coverage of sources of radiation standards and regulations biological effects of ionizing radiation instrumentation external and internal dosimetry counting statistics monitoring and interpretations operational health physics transportation and waste nuclear emergencies and more reflecting for the first time the true scope of health physics at an introductory level basic health physics problems and solutions gives readers the tools to properly evaluate challenging situations in all areas of radiation protection including the medical university power reactor fuel cycle research reactor environmental non ionizing radiation and accelerator health physics

ICRP Publication 130

2016-04-18

radioactive sources such as nuclear power installations can pose a great threat to both humans and our environment how do we measure model and regulate such threats environmental radioactivity and emergency preparedness addresses these topical questions and aims to plug the gap in the lack of comprehensive literature in this field the book explores how to deal with the threats posed by different radiological sources including those that are lost or hidden and the issues posed by the use of such sources it presents measurement methods and approaches to model and quantify the extent of threat and also presents strategies for emergency preparedness such as strategies for first responders and radiological triage in case an accident should happen containing the latest recommendations and procedures from bodies such as the iaea this book is an essential reference for both students and academicians studying radiation safety as well as for radiation protection experts in public bodies or in the industry

General Concepts for the Dosimetry of Internally Deposited Radionuclides

1985

this book covers all aspects of chronic radiation syndrome crs based on observations in a unique sample of residents of the techa riverside villages in the southern urals who were exposed to radioactive contamination in the 1950s owing to releases of liquid radioactive wastes the opening chapters discuss the definition and classification of crs its epidemiology and pathogenesis and the pathoanatomy of crs during the development and recovery stages clinical manifestations of crs at the different stages are then described in detail and the dynamics of hematopoietic changes are thoroughly examined in the following chapters principles of diagnosis and differential diagnosis are discussed and current and potential treatment options described the medical and social rehabilitation of persons with crs is also covered this book which casts new light on the condition will be of value for all practitioners and researchers with an interest in crs

ICRP Publication 88

2001-12-31

the symposium on radionuclides in the food chain sponsored by the international life sciences institute in association with the international institute for applied systems analysis was intended to bring together policymakers and other representatives of the food industry with radiation experts involved in measuring and assessing radioactivity in

foodstuffs the symposium was made timely by the problems arising from the nuclear reactor accident at chernobyl in the ussr which brought out the lack of international agreement on guidance for responding to such radionuclide contamination of food and foodstuffs the presentations by the radiation experts covered the sources of radionuclides natural radioactivity fallout from nuclear weapons tests routine releases from nuclear facilities and various nuclear accidents the speakers represented a broad distribution in both scientific disciplines and international geographic origin they summarized the available data on measurements and indicated the current procedures for assessing radiation exposure it was hoped that the food industry representatives would bring out the problems posed to industry and governments by the presence of radioactivity in food

Limits for Intakes of Radionuclides by Workers

1982-08

Committed Equivalent Organ Doses and Committed Effective Doses from Intakes of Radionuclides

1991

**Annual Limits on Intake of
Radionuclides by Workers Based
on the 1990 Recommendations**

1991

**Radiobioassay Protocols for
Responding to Abnormal Intakes
of Radionuclides**

2003

ICRP Publication 54

1989-07-01

ICRP Publication 30

1979-08-31

**Annual Limits of Intake of
Radionuclides for Workers**

1978

**Committed Equivalent Organ
Doses and Committed Effective
Doses from Intakes of
Radionuclides**

1991

***Annual Limits of Intake of
Radionuclides for Workers***

10??

***Internal Dosimetry of
Radionuclides***

2003

**Committed Dose Equivalent to
Selected Organs and Committed
Effective Dose Equivalent from
Intakes of Radionuclides**

1987

**Monitoring Data for Intake of
Radionuclides - Acute Intake
by Inhalation**

1999

**Limits for Intake of
Radionuclides by Workers**

1990-03

ICRP Publication 56

1990-04-01

Intakes of Radionuclides

1998

***Limits for Intakes of
Radionuclides by Workers***

1979

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2002-06

Approaches to Risk Management
in Remediation of
Radioactively Contaminated
Sites

2004

Atoms, Radiation, and
Radiation Protection

2022-12-01

Sources, Effects and Risks of
Ionizing Radiation, United
Nations Scientific Committee
on the Effects of Atomic
Radiation (UNSCEAR) 2016
Report

2017-04-25

Radiological Risk Assessment and Environmental Analysis

2008-07-10

Basic Health Physics

2010-04-26

Environmental Radioactivity and Emergency Preparedness

2017-01-06

Chronic Radiation Syndrome

2014-02-11

Radionuclides in the Food Chain

2012-12-06

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