

People's exposure to radiation

Planned exposure situations

Situations where protection measures can be planned in advance and the level and range of exposure can be reasonably forecast

Dose limits

(Public exposure) 1 mSv/year
(Occupational exposure)
100 mSv/5 years and
50mSv/year

Measures

Manage disposal of radioactive waste and long-lived radioactive waste

Existing exposure situations

Situations where exposure has already occurred as of the time when a decision on control is made

Reference level

A lower dose range within 1 to 20 mSv/year, with a long-term goal of 1 mSv/year

Measures

Ensure voluntary efforts for radiological protection and cultivate a culture for radiological protection

Emergency exposure situations

Contingency situations where urgent and long-term protection measures may be required

Reference level

Within 20 to 100 mSv/year

Measures

Evacuate, shelter indoors, analyze and ascertain radiological situations, prepare monitoring, conduct health examinations, manage foods, etc.

Protection Of The Public In Situations Of Prolonged Radiation Exposure

ICRP

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Protection Of The Public In Situations Of Prolonged Radiation Exposure:

ICRP Publication 82 ICRP,2000-08-31 This report provides guidance on the application of the ICRP system of radiological protection to prolonged exposure situations effecting members of the public It addresses the general application of the Commission s system to the control of prolonged exposures resulting from practices and to the undertaking of interventions in prolonged exposure situations Additionally it provides recommendations on generic reference levels for such interventions The report also considers some specific situations and discusses a number of issues that have been of concern namely natural radiation sources that may give rise to high doses the restoration and rehabilitation of sites where human activities involving radioactive substances have been carried out the return to normality following an accident that has released radioactive substances to the environment and the global marketing of commodities for public consumption that contain radioactive substances Annexes provide some examples of prolonged exposure situations and discuss the radiological protection quantities radiation induced health effects and aspects of the Commission s system of radiological protection relevant to prolonged exposure

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Protection of the Public in Situations of Prolonged Radiation Exposure ICRP., International Commission on Radiological Protection. Committee 4, 1999

Protection of the Public in Situations of Prolonged Radiation Exposure, 1999

Challenges in Radiation Protection and Nuclear Safety Regulation of the Nuclear Legacy Malgorzata Sneve, Mikhail F. Kiselev, 2008-07-19

A NATO workshop was held in September 2007 under the Security through Science framework to consider the current challenges in regulation of the nuclear legacy. The overall objective was to share East West competence and experience in radiation protection and nuclear safety supervision of installations built during the cold war particularly in relation to regulatory strategies for safe decommissioning of unique or unusual nuclear facilities and remediation activities. There were over 60 participants from 8 countries as well as representatives from the International Commission on Radiological Protection the International Atomic Energy Agency and NATO. The organisations involved included regulatory authorities operators and technical support organizations. The new Russian Federation Unified State Programme for Handling Spent Fuel and Radioactive Waste was introduced and the steps necessary to set this up as a comprehensive programme of activities were described. Some waste management sites are in a poor state. Legacy management experience was provided from the UK France and the USA. Information was provided on methods for site characterisation and separation of wastes into exempt low level and intermediate level waste and the complication of dealing at the same time with chemical hazards such as beryllium. Strategies for contaminated site management were also explained and the associated risk assessment methods outlined. The Russian Federation has responsibility to manage its own nuclear legacy. But it is also one of several countries in the global network of nuclear activities. Harmonisation of approaches is valuable in building future cooperation but local conditions may influence the best local solution. Accordingly future exchanges such as those provided for by this workshop should be encouraged. There are many complex issues to be addressed and they cannot all be solved at once. Clear recognition of the major threats as well as weakness in regulatory processes can be useful in directing future resources. However at this stage it is clear that there are specific regulatory issues to address as well as a need to maintain development of an enhanced overall safety culture. Such guidance needs to be thoroughly based on the best use of scientific and technical information. At the same time part of the solution relates to policy issues and value judgements and so broader interaction among regulators operators and other stakeholders is to be encouraged.

Social and Ethical Aspects of Radiation Risk Management Deborah Oughton, Sven Ove Hansson, 2013-09-07

Social and Ethical Aspects of Radiation Risk Management provides a comprehensive treatment of the major ethical and social issues resulting from the use of ionizing radiation. It covers topics such as nuclear fuel cycles radioactive waste treatment nuclear bomb testing nuclear safety management stakeholder engagement cleanup after nuclear accidents ecological risks from radiation environmental justice health and safety for radiation workers radiation dose

standards the ethics of clinical radiology and the principles of radiation protection and their ethical underpinnings With authors ranging from philosophers to radiation protection officials and practitioners the book spans from theoretical to practical implications of this important area of radiation risk assessment and management Covers all the major social and ethical issues in relation to radiation protection Information is easily accessible and non technical Authors include leading radiation protection officials as well as specialists who are more independent of the radiation protection system thus presenting both authoritative and more critical views Includes theoretical perspectives as well as practical experience

Nuclear Law Stephen Tromans, 2010-03-12 This book is a practical guide to the international EC and UK law applying to the various uses of nuclear energy and radioactive substances The first edition was produced in 1997 and given the renaissance of interest in nuclear power in the UK and worldwide this new updated and much expanded edition is timely It will cover the law relating to the permitting and operation of nuclear power stations the decommissioning and clean up of former nuclear facilities radiological protection the management of radioactive waste and spent fuel liability and insurance and the security and transport of radioactive materials Readers will find a clear framework explaining the development and application of nuclear law and how domestic law is based on and influenced by international and European requirements and by its historical context In the commercial context the chapters dealing specifically with new build and with decommissioning will be vital reading *Principles and Standards for the Disposal of Long-lived Radioactive Wastes* N. Chapman, C.

McCombie, 2003-10-07 This handbook is concerned with developing principles and standards for the safe disposal of solid radioactive wastes by burial deep in the Earth's crust Radioactive wastes have focussed thinking on long term environmental protection issues in an unprecedented way Consequently the way in which principles and standards are set and the thinking behind this is of wider interest than to the nuclear field alone The issues are not just technical and scientific There is also a much wider philosophical context to the debate centering on ethics human values and the expectations of society In this handbook it is intended that all these issues are brought together suggesting appropriate ways forward in each area culminating in a proposed structure for safety regulations It also aims to provide a detailed discussion of some of the most difficult logical and ethical issues facing those wishing to dispose of long lived radioactive wastes Infrastructure and Methodologies for the Justification of Nuclear Power Programmes Agustin Alonso, 2012-01-19 The potential development of

any nuclear power programme should include a rigorous justification process reviewing the substantial regulatory economic and technical information necessary for implementation given the long term commitments involved in any new nuclear power project Infrastructure and methodologies for the justification of nuclear power programmes reviews the fundamental issues and approaches to nuclear power justification in countries considering nuclear new build or redevelopment Part one covers the infrastructure requirements for any new nuclear power programme with chapters detailing the role and responsibilities of government regulatory bodies and nuclear operator and the need for human resources and technical capability at the

national level Part two focuses on issues relevant to the justification process including nuclear safety radiation protection and emergency planning Current designs and advanced reactors and radioactive waste management are also considered along with the economic social and environmental impacts of nuclear power development Part three reviews the development of nuclear power programme from nuclear power plant site selection and licensing through construction and operation and on to decommissioning Finally a series of valuable appendices detail the UK experience of justification nuclear safety culture and training and the multinational design evaluation programme MDEP With its distinguished editor and expert team of contributors Infrastructure and methodologies for the justification of nuclear power programmes is an essential reference for international and national stakeholders in this field particularly governmental non governmental and regulatory bodies nuclear power operators and consultants Offers a comprehensive analysis of the infrastructure and methodologies required to justify the creation of nuclear power programmes in any country Provides coverage of the main issues and potential benefit linked to nuclear power Reviews the implementation of a nuclear power programme with particular reference to the requirements and methods involved in construction

The Physics of Diagnostic Imaging Second Edition David Dowsett, Patrick A Kenny, R Eugene Johnston, 2006-04-28 Over recent years there has been a vast expansion in the variety of imaging techniques available and developments in machine specifications continue apace If radiologists and radiographers are to obtain optimal image quality while minimising exposure times a good understanding of the fundamentals of the radiological science underpinning diagnostic imaging is essential The second edition of this well received textbook continues to cover all technical aspects of diagnostic radiology and remains an ideal companion during examination preparation and beyond The content includes a review of basic science aspects of imaging followed by a detailed explanation of radiological sciences conventional x ray image formation and other imaging techniques The enormous technical advances in computed tomography including multislice acquisition and 3D image reconstruction digital imaging in the form of image plate and direct radiography magnetic resonance imaging colour flow imaging in ultrasound and positron radiopharmaceuticals in nuclear medicine are all considered here A chapter devoted to computers in radiology considers advances in radiology information systems and computer applications in image storage and communication systems The text concludes with a series of general topics relating to diagnostic imaging The content has been revised and updated throughout to ensure it remains in line with the Fellowship of the Royal College of Radiologists FRCR examination while European and American perspectives on technology guidelines and regulations ensure international relevance

Radiation Protection Jacob Shapiro, 2002 This highly successful manual has served for nearly three decades as the definitive guide to the safe use of radioactive materials Completely revised and updated the fourth edition presents a new dimension by adding coverage of nonionizing radiation and is thus concerned with the entire field of radiation protection The author takes the novel approach of introducing the whole range of energies possessed by particles and electromagnetic waves at the beginning of the text

thus integrating coverage of ionizing and nonionizing radiation rather than considering them as two separate disciplines He goes on to cover the entire spectrum of radiation sources including radionuclides x ray machines accelerators nuclear reactors power lines microwave towers and cellular phones With its expanded coverage including a broader focus on public health issues this new volume will serve as an important training and reference resource not only for research scientists physicians and engineers but for regulatory officials attorneys engineers and environmental health and safety professionals The breadth of citations alone makes this resource invaluable

Marine Radioactivity ,2004-09-17 This book on Marine Radioactivity sets out to cover most of the aspects of marine radioactivity which have been the focus of scientific study in recent decades The authors and their reviews divide into topic areas which have defined the field over its history They cover the suite of natural radioisotopes which have been present in the oceans since their formation and quantitatively dominate the inventory of radioactivity in the oceans Also addressed are the suite of artificial radionuclides introduced to the oceans as a consequence of the use of the atom for development of nuclear energy nuclear weapons and various applications of nuclear science The major source of these continues to derive from the global fallout of atmospheric tests of nuclear weapons in the 1950s and 1960s but also includes both planned and accidental releases of radioactivity from both civilian and military nuclear technology The other division of the major study direction depends on whether the objective is to use the radionuclides as powerful tools to study oceanic processes to describe and understand the ocean distribution of the various natural or artificial radionuclides or to assess the different radionuclides impact on and pathways to man or marine organisms The oceans cover 70% of the Earth s surface and thus contains a corresponding large share of the Earth s radioactivity Marine Radioactivity covers topics of recent scientific study in this young field It examines both natural radioactivity radioactivity naturally present in oceans since their formation and artificial radioactivity radioactivity introduced by man and use of atomic and nuclear energy with regard to possible effects on the global environment

Airborne Radioactive Contamination in Inhabited Areas ,2009-08-14 For many decades investigations of the behaviour and implications of radioactive contamination in the environment have focused on agricultural areas and food production This was due to the erroneous assumption that the consequences of credible contaminating incidents would be restricted to rural areas However due to the Chernobyl accident more than 250 000 persons were removed from their homes demonstrating a great need for knowledge and instruments that could be applied to minimise the manifold adverse consequences of contamination in inhabited areas Also today the world is facing a number of new threats including radiological terrorism which would be likely to take place in a city where most people would become directly affected A recent report from the US Commission on the Prevention of Weapons of Mass Destruction Proliferation and Terrorism concludes that it is most likely that a large radiological or even nuclear terror attack on a major city somewhere in the world will occur before 2013 For the first time ever the specific problems of airborne radioactive contamination in inhabited areas

are treated in a holistically covering treatise pinpointing factorial interdependencies and describing instruments for mitigation The state of the art knowledge is here explained in Airborne Radioactive Contamination in Inhabited Areas y leading scientists in the various disciplines of relevance Unique holistic description of airborne radioactive contamination of inhabited areas and its consequences State of the art information on problems associated with both accidental and malicious contamination events in particularly dirty bombs Detailed description of processes and parameters governing the severity of contaminating incidents Written by key experts in the world

Geological Repository Systems for Safe Disposal of Spent Nuclear Fuels and Radioactive Waste Michael J Apted,Joonhong Ahn,2017-05-25 Geological Repository Systems for Safe Disposal of Spent Nuclear Fuels and Radioactive Waste Second Edition critically reviews state of the art technologies and scientific methods relating to the implementation of the most effective approaches to the long term safe disposition of nuclear waste also discussing regulatory developments and social engagement approaches as major themes Chapters in Part One introduce the topic of geological disposal providing an overview of near surface intermediate depth and deep borehole disposal spanning low medium and high level wastes Part Two addresses the different types of repository systems crystalline clay and salt also discussing methods of site surveying and construction The critical safety issue of engineered barrier systems is the focus of Part Three with coverage ranging from nuclear waste canisters to buffer and backfill materials Lastly Parts Four and Five focus on safety security and acceptability concentrating on repository performance assessment then radiation protection environmental monitoring and social engagement Comprehensively revised updated and expanded with 25% new material on topics of current importance this is the standard reference for all nuclear waste management and geological repository professionals and researchers Contains 25% more material on topics of current importance in this new comprehensive edition Fully updated coverage of both near surface intermediate depth and deep borehole disposal in one convenient volume Goes beyond the scientific and technical aspects of disposal to include the political regulatory and societal issues involved all from an international perspective

Proceedings of the 2nd Annual International Conference on Material, Machines and Methods for Sustainable Development (MMMS2020) Banh Tien Long,Yun-Hae Kim,Kozo Ishizaki,Nguyen Duc Toan,Ivan A. Parinov,Ngoc Pi Vu,2021-03-26 This book presents selected peer reviewed proceedings of the 2nd International Conference on Material Machines and Methods for Sustainable Development MMMS2020 held in the city of Nha Trang Vietnam from 12 to 15 November 2020 The purpose of the conference is to explore and ensure an understanding of the critical aspects contributing to sustainable development especially materials machines and methods The contributions published in this book come from authors representing universities research institutes and industrial companies and reflect the results of a very broad spectrum of research from micro and nanoscale materials design and processing to mechanical engineering technology in industry Many of the contributions selected for these proceedings focus on materials modeling eco material processes and mechanical manufacturing

The Natural Radiation Environment VII

J.P. McLaughlin, E.S. Simopoulos, F. Steinhäusler, 2005-03-30 The Natural Radiation Environment Symposium NRE VII the Seventh in the NRE series which commenced forty years ago in 1963 at Rice University Texas was held in Rhodes Greece in May 2002 During the intervening four decades the research work presented at these NRE Symposia has contributed to a deeper understanding of natural radiation and in particular of its contribution to human radiation exposures It is clear from the quality and diversity of the 143 papers in this volume of Radioactivity in the Environment series that the study of the natural radiation environment is an active and continually expanding field of research The papers in this volume fall into a number of main and topical research areas namely the measurement and behaviour of natural radionuclides in the environment cosmic radiation measurement and dosimetry the external penetrating radiation field at ground level TENR Technologically Enhanced Natural Radiation and NORM Naturally Occurring Radioactive Materials studies assessment of the health effects of radon regulatory aspects of natural radiation exposures In these papers the results of many new surveys of natural radionuclide levels in the environment and of improved methods of detection are described While some of the natural radiation sources investigated are unmodified by human activity many accounts are given here of exposures to natural sources which have been enhanced by technology Such TENR and NORM exposures are shown to range from activities such as mining oil and gas exploitation the use of industrial by products as building materials to space travel to name but a few In several cases quite high doses to some individuals are shown to occur Accounts are given here of methods to prevent and reduce exposures to such sources

Food Toxicology Debasis Bagchi, Anand Swaroop, 2016-11-25 Food toxicology studies how natural or synthetic poisons and toxicants in diverse food products cause harmful detrimental or adverse side effects in living organisms Food toxicology is an important consideration as food supply chain is becoming more multinational in origin and any contamination or toxic manifestation may cause serious wide spread adverse health effects Food Toxicology covers various aspects of food safety and toxicology including the study of the nature properties effects and detection of toxic substances in food and their disease manifestations in humans It will also include other aspects of consumer product safety The first two chapters discuss the measurement of toxicants and toxicity and the importance of dose response in food toxicology Additional chapters discuss the aspects of food associated carcinogenesis and food derived chemical carcinogenesis food allergy pathogens associated with fruits and vegetables and the detrimental effects of radionuclides exposure The chapters also cover the most important heavy metal contaminants namely mercury lead and vanadium and Fluoride toxicity which is extensively discussed in its own chapter Toxicologists scientists researchers in food toxicology nutritionists and public health care professionals will find valuable information in this book on all possible intricate areas of food toxicology

Routledge Handbook of Water and Health Jamie Bartram, 2015-09-25 This comprehensive handbook provides an authoritative source of information on global water and health suitable for interdisciplinary teaching for advanced undergraduate and postgraduate students It covers both developing and developed country concerns It is

organized into sections covering hazards including disease chemicals and other contaminants exposure interventions intervention implementation distal influences policies and their implementation investigative tools and historic cases It offers 71 analytical and engaging chapters each representing a session of teaching or graduate seminar Written by a team of expert authors from around the world many of whom are actively teaching the subject the book provides a thorough and balanced overview of current knowledge issues and relevant debates integrating information from the environmental health and social sciences

Nuclear Accidents Jean-Claude Amiard, 2020-02-26 Detailing the estimation and perception of nuclear risk this book follows military and civilian nuclear accidents plus the systems put in place by national and international authorities for recording and analyzing feedback Prevention and anticipation being the best defenses against a nuclear accident the authorities have also categorized the different types of accidents and are doing research to better understand and control them In light of this this book shows how the authorities take practical measures to protect neighboring populations and limit radioactive contamination of the environment Frances experience in this arena is well documented and a chapter of this book is devoted to the fight against terrorist attacks in the nuclear field *Nuclear Accidents* is based on scientifically recognized publications as well as on reports from the various countries concerned and the national and international organizations competent in this field IAEA WHO UNSCEAR IRSN etc

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