

# Sources of Background Radiation



Radon  
Gas



Food



Medical  
Tests



Cosmic Rays



Nuclear Tests

# Radiation Sources

**BM King**



## **Radiation Sources:**

Radiation Source Use and Replacement National Research Council, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, Committee on Radiation Source Use and Replacement, 2008-05-25 In the United States there are several thousand devices containing high activity radiation sources licensed for use in areas ranging from medical uses such as cancer therapy to safety uses such as testing of structures and industrial equipment Those radiation sources are licensed by the U S Nuclear Regulatory Commission and state agencies Concerns have been raised about the safety and security of the radiation sources particularly amid fears that they could be used to create dirty bombs or radiological dispersal device RDD In response to a request from Congress the U S Nuclear Regulatory Commission asked the National Research Council to conduct a study to review the uses of high risk radiation sources and the feasibility of replacing them with lower risk alternatives The study concludes that the U S government should consider factors such as potential economic consequences of misuse of the radiation sources into its assessments of risk Although the committee found that replacements of most sources are possible it is not economically feasible in some cases The committee recommends that the U S government take steps to in the near term to replace radioactive cesium chloride radiation sources a potential dirty bomb ingredient used in some medical and research equipment with lower risk alternatives The committee further recommends that longer term efforts be undertaken to replace other sources The book presents a number of options for making those replacements

Radiation Safety in the Use of Radiation Sources in Research and Education IAEA, 2024-02-09 Radiation sources used in research and education include particle accelerators sealed radioactive sources such as low activity check sources and high activity sealed radioactive sources in irradiators unsealed radioactive sources that are used as tracers in field work and in laboratory work naturally occurring radioactive material and X ray generators such as diffraction apparatus and fluorescence analyzers This Safety Guide provides recommendations on how to meet the relevant requirements of IAEA Safety Standards Series No GSR Part 3 in the use of radiation sources in research and education It provides guidance on the control of occupational exposure and of public exposure for planned exposure situations and where appropriate emergency exposure situations and on the safety measures specific to this practice The recommendations in this publication are aimed primarily at operating organizations such as educational and research establishments including schools colleges universities and technical institutes that are authorized to use radiation sources in academic programs as well as their employees students teachers and radiation protection officers The guidance will also be of interest to individuals working for regulatory bodies and other relevant organizations involved in design manufacture supply and service of radiation sources and associated equipment for research and education

Medical Management of Radiation Accidents Kenneth S. Cohen, 2001-03-28 Although radiation accidents are rare and often complex in nature they are of great concern not only to the patient and involved medical staff but to the media and public as well Yet there are few if any comprehensive publications on the medical

management of radiation accidents Medical Management of Radiation Accidents provides a complete reference *Nuclear Science Abstracts* ,1976-02

**Countering Nuclear and Radiological Terrorism** Samuel Apikyan,David Diamond,2007-05-22 In recognition that no single country possesses all the answers to the critical scientific institutional and legal questions associated with combating nuclear and radiological terrorism the 2005 Workshop and these proceedings were structured to promote wide ranging multi national exploration of critical technology needs and underlying scientific challenges to reducing the threat of nuclear radiological terrorism to illustrate through country specific presentations how resulting technologies were used in national programs and to outline the role of legal policy and institutional frameworks in countering nuclear radiological terrorism One key outcome of this book is a better understanding of the independent contributions from across the international community of the scientific and technological components and the legal policy and institutional components to combating nuclear radiological terrorism The book can serve as a tool for communicating the outcomes of the workshop to the multi national scientific communities engaged in combating nuclear radiological terrorism and to those working at governmental and policy levels

**Energy information data base** United States. Dept. of Energy. Technical Information Center,1979

*Nuclear Power and Energy Security* Samuel Apikyan,David Diamond,2009-10-19 The basic logic is very simple Countries around the globe have a need for more electrical generating capacity because of increases in population and increases in energy use per capita The needs are constrained by the requirement that the base load energy source be economical secure and not emit climate changing gases Nuclear power fits this description Therefore many countries that have not had a nuclear power program or only had a small program see a need to develop one in the future However the development of a national nuclear energy program is not so simple The purpose of the NATO Advanced Research Workshop on Nuclear Power and Energy Security was to contribute to our understanding of how these programs might evolve The workshop took place 26-29 May 2009 in Yerevan Armenia Approximately 50 participants discussed the infrastructure that is needed and some of the reactor options that might be considered The papers in this book helped define the discussion that took place The infrastructure that is needed includes a legal framework a functioning regulator a plan for waste disposal a plan for emergency response etc These needs were explained and just as importantly it was explained what international bilateral and regional cooperation is available Although there were many countries represented the Armenian experience was of particular interest because of where the meeting was located The papers on reactor options covered both innovative and evolutionary designs

ERDA Energy Research Abstracts United States. Energy Research and Development Administration,1977

**Energy Research Abstracts** ,1984

**Advanced Technologies for Physical Properties Measurement of Food and its Processing** Hao Lin,Lei Zhang,Quansheng Chen,Man Zhou,Leiying Pan,Qin Ouyang,Solomon Yao-Say Selorm Adade,Yanyu Li,2025-02-11 This book provides a comprehensive overview of the physical properties of foods and the cutting edge technologies employed to measure them Delving into key topics such as optical

thermal acoustic rheological and textural properties it provides a detailed examination of principles measurement methods and applications in food quality evaluation While it discusses advanced technologies such as near infrared spectroscopy computer vision spectral imaging acoustic resonance analysis electronic noses tongues eyes and multi sensor data fusion in detail the book also introduces intelligent equipment design and real time quality monitoring systems for the food industry including emerging technologies like 4D printing and terahertz technology The book also addresses critical questions about the application of these technologies in real world scenarios making it a must read for those seeking to understand and apply the latest advancements in food science This book is an invaluable resource for undergraduate and graduate students researchers and professionals in food science and engineering It helps readers understand the principles of various non destructive food quality measurement techniques and applies them to in situ evaluation and in field monitoring It also serves as both a textbook and a reference guide enabling readers to understand and apply advanced measurement and processing techniques for in situ evaluation and in field monitoring By providing a thorough understanding of the principles and applications of food physical properties this book ensures that its audience remains at the forefront of technological advancements in the field The book contains several chapters originally written in the Chinese language The translation was done with the help of artificial intelligence A subsequent human revision was done primarily in terms of content     Subject Headings Used in the Catalogs of the United States Atomic Energy Commission ,1965     **United States Code** United States,2013 The United States Code is the official codification of the general and permanent laws of the United States of America The Code was first published in 1926 and a new edition of the code has been published every six years since 1934 The 2012 edition of the Code incorporates laws enacted through the One Hundred Twelfth Congress Second Session the last of which was signed by the President on January 15 2013 It does not include laws of the One Hundred Thirteenth Congress First Session enacted between January 2 2013 the date it convened and January 15 2013 By statutory authority this edition may be cited U S C 2012 ed As adopted in 1926 the Code established prima facie the general and permanent laws of the United States The underlying statutes reprinted in the Code remained in effect and controlled over the Code in case of any discrepancy In 1947 Congress began enacting individual titles of the Code into positive law When a title is enacted into positive law the underlying statutes are repealed and the title then becomes legal evidence of the law Currently 26 of the 51 titles in the Code have been so enacted These are identified in the table of titles near the beginning of each volume The Law Revision Counsel of the House of Representatives continues to prepare legislation pursuant to 2 U S C 285b to enact the remainder of the Code on a title by title basis into positive law The 2012 edition of the Code was prepared and published under the supervision of Ralph V Seep Law Revision Counsel Grateful acknowledgment is made of the contributions by all who helped in this work particularly the staffs of the Office of the Law Revision Counsel and the Government Printing Office Preface     **Journal of the House of Representatives of the United States** ,2006 Some vols include supplemental

journals of such proceedings of the sessions as during the time they were depending were ordered to be kept secret and respecting which the injunction of secrecy was afterwards taken off by the order of the House      **Encyclopaedia of Occupational Health and Safety: Hazards** Jeanne Mager Stellman,1998      108-1 Hearings: Energy And Water Development Appropriations For 2004, Part 6, March 20, 2003, \* ,2004      NRL Review ,1980      **Scientific and Technical Aerospace Reports** ,1985      The Four Faces of Nuclear Terrorism Charles D. Ferguson,William C. Potter,Amy Sands,2005  
First Published in 2005 Routledge is an imprint of Taylor Francis an informa company      **AEC Authorizing Legislation, Fiscal Year 1965** United States. Congress. Joint Committee on Atomic Energy. Subcommittee on Legislation,1964  
Review ,1981

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