
Environmental Radioactivity

From Nuclear, Industrial, and Military Sources

Second Edition

Edited by
Michael Eisenbud

Michael Eisenbud
Thomas Gress

Environmental Radioactivity From Natural Industrial And Military Sources

Karl Heinrich Lieser



Environmental Radioactivity From Natural Industrial And Military Sources:

Environmental Radioactivity: From Natural, Industrial and Military Sources Merrill Eisenbud, Thomas F. Gesell, 1997-03 Environmental Radioactivity from Natural Industrial and Military Sources is the comprehensive source of information on radiation in the environment and human exposure to radioactivity This Fourth Edition is a complete revision and extension of the classic work reflecting major new developments and concerns as the Cold War ended nuclear weapons began to be dismantled and cleanup of the nuclear weapons facilities assumed center stage Contamination from accidents involving weapons reactors and radionuclide sources are discussed in an updated chapter including the latest information about the effects of the Chernobyl accident Important revisions are also made to the chapters on natural radioactivity nuclear fuels and power reactors radioactive waste management and various other sources of exposure Several chapters provide primers for readers who may not be familiar with the fundamentals of radiation biology protection standards and pathways for the environmental transport of radionuclides An Appendix lists the properties of the more important radionuclides found in the environment The book concludes with a commentary on contemporary social aspects of radiation exposure and risks that offers an alternative view to current often excessive concerns over radiation nuclear technology and waste Key Features Describes every important source of environmental radioactivity Reviews the vexing problems of radioactive waste management and cleanup of contaminated sites Contains measured or projected radiation dose estimates for the major sources Features 126 figures 80 tables and more than 1200 references Discusses current problems in historical context The two authors bring more than 75 years of combined experience with environmental radioactivity Provides an understanding of the sources of environmental radioactivity and human exposure from the mining of ores to final disposal of wastes Thoroughly reviews important contamination accidents

Environmental Radioactivity from Natural, Industrial and Military Sources Merrill Eisenbud, Thomas F. Gesell, 1997-03-26 Environmental Radioactivity from Natural Industrial and Military Sources is the comprehensive source of information on radiation in the environment and human exposure to radioactivity This Fourth Edition is a complete revision and extension of the classic work reflecting major new developments and concerns as the Cold War ended nuclear weapons began to be dismantled and cleanup of the nuclear weapons facilities assumed center stage Contamination from accidents involving weapons reactors and radionuclide sources are discussed in an updated chapter including the latest information about the effects of the Chernobyl accident Important revisions are also made to the chapters on natural radioactivity nuclear fuels and power reactors radioactive waste management and various other sources of exposure Several chapters provide primers for readers who may not be familiar with the fundamentals of radiation biology protection standards and pathways for the environmental transport of radionuclides An Appendix lists the properties of the more important radionuclides found in the environment The book concludes with a commentary on contemporary social aspects of radiation exposure and risks that offers an alternative view to current often excessive concerns over radiation

nuclear technology and waste Describes every important source of environmental radioactivity Reviews the vexing problems of radioactive waste management and clean up of contaminated sites Contains measured or projected radiation dose estimates for the major sources Features 126 figures 80 tables and more than 1200 references Discusses current problems in historical context The two authors bring more than 75 years of combined experience with environmental radioactivity Provides an understanding of the sources of environmental radioactivity and human exposure from the mining of ores to final disposal of wastes Thoroughly reviews important contamination accidents Environmental Radioactivity Merrill Eisenbud, 2008-09-01 **Detecting Environmental Radioactivity** Manuel García-León, 2022-11-30 This textbook presents the principles and methods for the measurement of radioactivity in the environment In this regard specific low level radiation counting and spectrometry or mass spectrometry techniques are discussed including sources distribution levels and dynamics of radioactivity in nature The author gives an accurate description of the fundamental concepts and laws of radioactivity as well as the different types of detectors and mass spectrometers needed for detection Special attention is paid to scintillators semiconductor detectors and gas ionization detectors In order to explain radiochemistry some concepts about chemical separations are introduced as well The book is meant for graduate and advanced undergraduate students in physics chemistry or engineering oriented to environmental sciences and to other disciplines where monitoring of the environment and its management is of great interest **Radioecology: Lectures In Environmental Radioactivity** E Holm, 1994-08-31 These lectures presented by experts from the Nordic countries are collected with the purpose of education in the field of environmental radioactivity The book may be used in university courses on eg health physics and environmental science Administrators and managers of environmental programmes may also find useful background information The book covers all important aspects of environmental radioactivity such as source terms atmospheric transport processes in aquatic and terrestrial systems radiochemistry and measurement techniques radioactivity in man modeling and assessment of absorbed doses The Nordic Committee for Nuclear Safety Research NKS organises joint research programmes such as the above lectures to strive for a better understanding in the Nordic countries of factors influencing nuclear safety radiation protection and emergency provisions *Encyclopedia of Ocean Sciences* , 2019-04-12 The oceans cover 70% of the Earth s surface and are critical components of Earth s climate system This new edition of Encyclopedia of Ocean Sciences Six Volume Set summarizes the breadth of knowledge about them providing revised up to date entries as well coverage of new topics in the field New and expanded sections include microbial ecology high latitude systems and the cryosphere climate and climate change hydrothermal and cold seep systems The structure of the work provides a modern presentation of the field reflecting the input and different perspective of chemical physical and biological oceanography the specialized area of expertise of each of the three Editors in Chief In this framework maximum attention has been devoted to making this an organic and unified reference Represents a one stop organic information resource on the breadth of ocean science research Reflects the input

and different perspective of chemical physical and biological oceanography the specialized area of expertise of each of the three Editors in Chief New and expanded sections include microbial ecology high latitude systems and climate change Provides scientifically reliable information at a foundational level making this work a resource for students as well as active researches

Radiation Threats and Your Safety Armin Ansari,2009-10-23 While it has aided far many more than it has harmed radiation is forever etched in the public s mind as an indiscriminate and particularly pernicious killer Consequently it is especially critical in this age of terrorist threats that we equip ourselves with accurate information and practical tools that will serve us in the rare chance that we find ourselves in a radiation crisis **Radiation Threats and Your Safety** A Guide to Preparation and Response for Professionals and Community offers a calm and authoritative approach to crisis preparation Written by a health physicist from the U S Centers for Disease Control and Prevention the book informs us about what we should know ahead of time how to prepare and the best ways to respond to a nuclear or radiological incident either as an emergency responder or community family member Organized to serve both as a preparation guide and as a reference in a crisis this book Uses common language while avoiding unnecessary scientific jargon Details protocols for both accidental and intentional radiation emergencies such as nuclear explosions and dirty bombs Shows how to prepare a family emergency plan Covers medical responses to radiation emergencies including radiation drugs Provides an emergency supply list Discusses radiation from microwaves and cellular phones as well as food irradiation There is no reason why we should feel helpless when faced with a radiation emergency We can take action to protect ourselves our families and our communities How we react to a radiation emergency will determine its true final impact To this end we need information and leaders we can depend upon

Toxicological Profile for Plutonium ,2010 *ENVIRONMENTAL AND ECOLOGICAL CHEMISTRY - Volume I* Aleksandar Sabljic,2009-02-04 Environmental and Ecological Chemistry is a component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Environmental and Ecological Chemistry prsents the essential aspects such as Fundamental Environmental Chemistry Atmospheric Chemistry Soil Chemistry Aquatic Chemistry Ecological Chemistry Chemistry of Organic Pollutants Including Agrochemicals These volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Environmental Toxicants Morton Lippmann,2000 This authoritative text critically reviews current knowledge on human exposure to selected chemical agents and physical factors in the ambient environment It provides up to date information and research for performing risk assessments

Handbook of Ecotoxicology David J. Hoffman,Barnett A. Rattner,G. Allen Burton Jr.,John Cairns Jr.,2002-11-13 Completely revised and updated with 18 new chapters this second edition includes contributions from over 75 international experts Also a Technical Review Board reviewed all manuscripts for accuracy and currency Focusing on toxic substance and how they affect the

ecosystems worldwide the book presents methods for quantifying and measuring ecotoxicological effects in the field and in the lab as well as methods for estimating predicting and modeling in ecotoxicology studies This is the definitive reference for students researchers consultants and other professionals in the environmental sciences toxicology chemistry biology and ecology in academia industry and government Toxicological Profile for Strontium ,2004 **Emergency**

Characterization of Unknown Materials Rick Houghton,William Bennett,2020-11-29 Emergency Characterization of Unknown Materials Second Edition is fully updated to serve as a portable reference that can be used in the field and laboratory by workers who are responsible for a safe response to and management of unknown hazardous materials As with the first edition the book emphasizes public safety and the management of life safety hazards including strategies and emerging technologies to identify the hazards presented by an unknown material When responding to a hazardous material emergency involving an unknown substance firefighters and HAZMAT teams are primarily interested in protecting public safety The book details risk analysis procedures to identify threats and vulnerabilities analyzing them to determine how such risks can be eliminated or reduced If an unknown material can be identified with a high degree of confidence that can considerably change the response and measures to be taken In addition the book covers practical field applications with updated and additional examples of field instruments The hazard identification methods presented are intended for use by frontline workers The test methods presented involve manipulation of small sample amounts using literally a hands on approach The three technologies used by first responders and military personnel to identify unknown chemicals Raman spectroscopy FTIR spectroscopy and high pressure mass spectroscopy are covered in depth Features Presents how to identify unknown materials and if identification is not possible to characterize the hazards of the material Offers practical examples to introduce new first responders to hazardous materials response Provides up to date field applications of the latest developments in commercially available instrumentation Details practical sample manipulations to help the reader successfully identify materials with popular high end instrumentation Includes several examples of spectra and describes ways in which the reader can utilize data to inform decision making New coverage to this edition includes a chapter and content that focuses on sample manipulation and separations using instruments developed and revised since the first edition was published These sample manipulations may be performed in the field with a very simple toolkit which is fully outlined and explained in detail Identifying the hazards of the unknown substance is essential to plan for response contingencies and sustained actions As such Emergency Characterization of Unknown Materials Second Edition will be a welcome and essential resource to all response and safety professionals concerned with hazardous materials **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.

Medical Geology of Africa Theophilus Clavell Davies, 2024-06-14. Medical Geology of Africa explores the connection between geological materials, processes and the health of humans and animals. The book fosters an improved understanding of the ways in which the geological environment impacts the geographical distribution of health problems and how they contribute to better diagnoses and therapy. Africa's unique geoenvironmental condition gives added relevance to such studies underlining the need for geoscience and public health students and practitioners to understand new principles and applications. Chapters in the book provide extended enquiry based investigations and examples that employ real geochemical datasets, epidemiological records, public health statistics and visualizations. Provides a summary of current research on Medical Geology of Africa. Identifies gaps in knowledge of the role of the geo environment in deciphering unknown aetiologies. Assembles the most recent literature on current thematic issues and prescribes directions of future research.

Nuclear and Radiochemistry Karl Heinrich Lieser, 2008-09-26. This handbook gives a complete and concise description of the up to date knowledge of nuclear and radiochemistry and applications in the various fields of science. It is based on teaching courses and on research for over 40 years. The book is addressed to any researcher wishing sound knowledge about the properties of matter be it a chemist, a physicist, a medical doctor, a mineralogist or a biologist. They will all find it a valuable source of information about the principles and applications of nuclear and radiochemistry. Research in radiochemistry includes: Study of radioactive matter in nature, investigation of radioactive transmutations by chemical methods, chemistry of radioelements etc. Applications include: Radionuclides in geo and cosmochemistry, dating by nuclear methods, radioanalysis, Mossbauer spectroscopy and related methods, behaviour of natural and man made radionuclides in the environment, dosimetry and radiation protection. All subjects are presented clearly and comprehensibly and in logical sequence. Detailed derivations of equations are avoided and relevant information is compiled in tables. The recent edition of

the multi coloured Karlsruhe Chart of the Nuclides is included Clearly a standard work by an author with extensive experience in research and teaching Basic Environmental Toxicology Lorris G. Cockerham, Barbara S. Shane, 2019-07-05 Basic Environmental Toxicology provides a thorough systematic introduction to environmental toxicology and addresses many of the effects of pollutants on humans animals and the environment Readers are introduced to the fundamentals of toxicology and ecotoxicology the effects of different types of toxicants and how toxicants affect different compartments of the environment Fundamental aspects of environmental health occupational health detection of pollutants and risk assessment are discussed The book is excellent for anyone involved in risk assessment or risk management toxicologists state and local public health officials environmental engineers industrial managers consultants and students taking environmental toxicology courses The Environmental Behaviour of Uranium IAEA, 2023-07-10 This publication is one of the series of IAEA publications on the environmental behaviour of naturally occurring radionuclides It outlines uranium behaviour in different environments as well as its transfer to and metabolism in humans The publication also provides concepts models and data required for the assessment of the impacts of uranium on non human biota Assessing the environmental and health effects of uranium poses specific challenges because of the combination of different types of hazard and potential exposures Therefore both the radiotoxicity and chemical toxicity of uranium are considered in this publication **Nuclear and Radiochemistry, 2 Volume Set** Jens-Volker Kratz, Karl Heinrich Lieser, 2013-12-04 The third edition of this classic in the field is completely updated and revised with approximately 30% new content so as to include the latest developments The handbook and ready reference comprehensively covers nuclear and radiochemistry in a well structured and readily accessible manner dealing with the theory and fundamentals in the first half followed by chapters devoted to such specific topics as nuclear energy and reactors radiotracers and radionuclides in the life sciences The result is a valuable resource for both newcomers as well as established scientists in the field **Nuclear and Radiochemistry** Jens-Volker Kratz, Karl Heinrich Lieser, 2013-08-15 The third edition of this classic in the field is completely updated and revised with approximately 30% new content so as to include the latest developments The handbook and ready reference comprehensively covers nuclear and radiochemistry in a well structured and readily accessible manner dealing with the theory and fundamentals in the first half followed by chapters devoted to such specific topics as nuclear energy and reactors radiotracers and radionuclides in the life sciences The result is a valuable resource for both newcomers as well as established scientists in the field

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