
Environmental Radioactivity

From Nuclear, Industrial, and Military Sources

SECOND EDITION

Edited by
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Environmental Radioactivity From Natural Industrial And Military Sources

Aleksandar Sabljic

A decorative red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the author's name.

Environmental Radioactivity From Natural Industrial And Military Sources:

Environmental Radioactivity Merrill Eisenbud, 1987 *Environmental Radioactivity* Merrill Eisenbud, 2008-09-01

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

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 presents 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

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Table of Contents Environmental Radioactivity From Natural Industrial And Military Sources

1. Understanding the eBook Environmental Radioactivity From Natural Industrial And Military Sources
 - The Rise of Digital Reading Environmental Radioactivity From Natural Industrial And Military Sources
 - Advantages of eBooks Over Traditional Books
2. Identifying Environmental Radioactivity From Natural Industrial And Military Sources
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Environmental Radioactivity From Natural Industrial And Military Sources
 - User-Friendly Interface
4. Exploring eBook Recommendations from Environmental Radioactivity From Natural Industrial And Military Sources
 - Personalized Recommendations
 - Environmental Radioactivity From Natural Industrial And Military Sources User Reviews and Ratings
 - Environmental Radioactivity From Natural Industrial And Military Sources and Bestseller Lists
5. Accessing Environmental Radioactivity From Natural Industrial And Military Sources Free and Paid eBooks

- Environmental Radioactivity From Natural Industrial And Military Sources Public Domain eBooks
 - Environmental Radioactivity From Natural Industrial And Military Sources eBook Subscription Services
 - Environmental Radioactivity From Natural Industrial And Military Sources Budget-Friendly Options
6. Navigating Environmental Radioactivity From Natural Industrial And Military Sources eBook Formats
 - ePub, PDF, MOBI, and More
 - Environmental Radioactivity From Natural Industrial And Military Sources Compatibility with Devices
 - Environmental Radioactivity From Natural Industrial And Military Sources Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Environmental Radioactivity From Natural Industrial And Military Sources
 - Highlighting and Note-Taking Environmental Radioactivity From Natural Industrial And Military Sources
 - Interactive Elements Environmental Radioactivity From Natural Industrial And Military Sources
 8. Staying Engaged with Environmental Radioactivity From Natural Industrial And Military Sources
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Environmental Radioactivity From Natural Industrial And Military Sources
 9. Balancing eBooks and Physical Books Environmental Radioactivity From Natural Industrial And Military Sources
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Environmental Radioactivity From Natural Industrial And Military Sources
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Environmental Radioactivity From Natural Industrial And Military Sources
 - Setting Reading Goals Environmental Radioactivity From Natural Industrial And Military Sources
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Environmental Radioactivity From Natural Industrial And Military Sources
 - Fact-Checking eBook Content of Environmental Radioactivity From Natural Industrial And Military Sources
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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