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Radioecology After Chernobyl Biogeochemical Pathways Of Artificial Radionuclides

Charles S. Shapiro



Radioecology After Chernobyl Biogeochemical Pathways Of Artificial Radionuclides:

Radioecology After Chernobyl Frederick Warner, Roy M. Harrison, 1993-06 The basic properties of isotopes of interest and their sources are described in the opening chapter the coverage is limited mainly to those whose release is due to human activities A series of case studies details the incidents which have been important for adding to knowledge of radionuclide behavior within atmospheric terrestrial aquatic and urban compartments of the environment and the pathways through which transfer occurs Major chapters give detailed reviews of current knowledge of environmental pathways of radioactivity and recommendations for future research This is followed by assessments of dosimetry and environmental effects

Actinides and the Environment P.A. Sterne, A. Gonis, A.A. Borovoi, 1998-02-28 The handling of actinides and actinide based materials provides significant technological challenges due to the toxicity and radioactivity associated with these materials These challenges are particularly apparent in the nuclear power industry Under normal operation a reactor can produce a significant amount of spent fuel requiring subsequent containment for geologic times and under accident conditions it can release lethal doses of radioactive material to the environment Inevitably radioactive material will enter the environment necessitating as complete an understanding as possible of its behavior An understanding of the interaction between actinides and the environment must be based on a knowledge of their basic physical and chemical properties To date although there is general agreement on the principles for waste disposal no facility has been built for the long term disposal of high level radioactive waste from either normal reactor operations or from accidental catastrophes This makes it most important for the scientific and technical community to develop the necessary cross disciplinary understanding that will help us implement safe and secure waste management accident remediation and accident prevention systems

Radioecology and the Restoration of Radioactive-Contaminated Sites F.F. Luykx, Martin J. Frissel, 2012-12-06 Most of the nuclear facilities built since the Second World War have ceased active operation and have been decommissioned Some of the sites are heavily contaminated with radioactive substances Correct and efficient action to mitigate the radiological consequences of such contamination will only be possible when the behaviour of radionuclides in the terrestrial environment is sufficiently well known Yet radioecologists often find it difficult to study the transfer of radioactivity in agricultural land and semi natural ecosystems because of the complexity and diversity of such environments The present book presents an analysis of all the factors that affect the behaviour of radionuclides as they move from their point of release through the environment and then enter the tissues of biota living in the ecosystems in particular plants and animals consumed by humans The course on which the book is based was held in a region that is heavily contaminated by radioactive discharges into the environment during nuclear weapons fabrication in the 1950s and 60s and due to a severe accidental release following the explosion of a rad waste tank in 1957 This allowed in situ training of the students The book s main emphasis is on specific radioecological problems in severely contaminated areas in the former Soviet Union the Southern Urals Trail the rivers Techa Isert Tobol

Irtis Ob and the 30 km zone around Chernobyl Systems examined include soils arable and pasture land forests lakes and rivers Special attention is paid to the effects of radiation on natural ecosystems trees soil dwelling organisms and aquatic organisms Synergistic effects are also considered Short medium and long term countermeasures are discussed A History of Radioecology Patrick C. Kangas, 2022-12-26 This book presents a history of radioecology from World War II through to the critical years of the Cold War finishing with a discussion of recent developments and future implications for the field Drawing on a vast array of primary sources the book reviews synthesizes and discusses the implications of the ecological research supported by the Atomic Energy Commission AEC of the United States government from World War II to the early 1970s This was a critical period in the history of ecology characterized by a transition from the older largely descriptive studies of communities of plants and animals to the modern form of the science involving functional studies of energy flow and mineral cycling in ecosystems This transition was in large part due to the development of radioecology which was a by product of the Cold War and the need to understand and predict the consequences of a nuclear war that was planned but has never occurred The book draws on important case studies such as the Pacific Proving Grounds the Nevada Test Site El Verde in Puerto Rico the Brookhaven National Laboratory and recent events such as the nuclear disasters at Chernobyl and Fukushima By revisiting studies and archived information from the Cold War era this book offers lessons from the history of radioecology to provide background and perspective for understanding possible present day impacts from issues of radiation risks associated with nuclear power generation and waste disposal Post Cold War developments in radioecology will be also reviewed and contrasted with the AEC supported ecology research for further perspectives This book will be of great interest to students and scholars of radioecology environmental pollution environmental technology bioscience and environmental history Radionuclide Behaviour in the Natural Environment Christophe Poinssot, Horst Geckeis, 2012-09-20

Understanding radionuclide behaviour in the natural environment is essential to the sustainable development of the nuclear industry and key to assessing potential environmental risks reliably Minimising those risks is essential to enhancing public confidence in nuclear technology Scientific knowledge in this field has developed greatly over the last decade Radionuclide behaviour in the natural environment provides a comprehensive overview of the key processes and parameters affecting radionuclide mobility and migration After an introductory chapter part one explores radionuclide chemistry in the natural environment including aquatic chemistry and the impact of natural organic matter and microorganisms Part two discusses the migration and radioecological behavior of radionuclides Topics include hydrogeology sorption and colloidal reactions as well as in situ investigations Principles of modelling coupled geochemical transport and radioecological properties are also discussed Part three covers application issues assessment of radionuclide behaviour in contaminated sites taking Chernobyl as an example estimation of radiological exposure to the population performance assessment considerations related to deep geological repositories and remediation concepts for contaminated sites With its distinguished editors and international team

of expert contributors Radionuclide behaviour in the natural environment is an essential tool for all those interested or involved in nuclear energy from researchers designers and industrial operators to environmental scientists It also provides a comprehensive guide for academics of all levels in this field Provides a comprehensive overview of the key processes and parameters affecting radionuclide mobility and migration Explores radionuclide chemistry in the natural environment Discusses the migration and radioecological behaviour of radionuclides

Remediation Measures for Radioactively Contaminated Areas Dharmendra K. Gupta,Anna Voronina,2018-06-04 This book offers extensive and comprehensive knowledge to the researchers and academicians who are working on decontamination of radioactively contaminated areas Remediation strategies for contaminated sites are provided Readers who will find this book useful include professionals specializing in radioecology safe disposal of radioactive waste as well as decontamination remediation legacies and impact of radioactive waste material on the environment The chapters give a broad overview and reviews of a number of original publications on remediation strategies that were explored after the Chernobyl and Fukushima Nuclear Power plant accidents Useful case studies are provided that explore the latest technological developments and future trends for affected area decontamination

Science After The Cold War: International Seminar On Nuclear War And Planetary Emergencies - 19th Session Klaus Goebel,1995-07-14

Low-level Measurements Of Radioactivity In The Environment : Techniques And Applications - Proceedings Of The Third International Summer School M Garcia-leon,R Garcia-tenorio,1994-07-27 This book contains the lectures seminars and abstracts of short communications delivered at the above summer school The talks are an updated account of the methods used in the detection of radioactivity in nature and in the study of its spread in the environment

Global Ecology Sven Erik Jørgensen,2010-04-16 Global Ecology focuses on the perception of the biosphere or the ecosphere as a unified cooperative system with numerous synergistic effects which describe the distinctive properties of this sphere This book is subdivided into five parts dealing with diverse aspects in global ecology The first part of the book provides comprehensive description of the biosphere including its unique characteristics and evolution This part also describes various spheres in the biosphere such as the hydrosphere noosphere and pedosphere as well as their composition The next part focuses on the global cycles including calcium carbon iron microbial nitrogen oxygen phosphorus sulfur and water cycles In addition global balances and flows are explained Presented in the third part are the results of the global cycles and flows as well as the patterns of the climatic factors and marine currents There is also a part discussing the climate interactions climatic changes and its effect on the living organisms The book concludes by covering the application of stoichiometry in the biosphere and in ecosystems The book offers a comprehensive view of global ecology and ecological stoichiometry which will aid in the processes of global ecology Provides an overview of the theory and application of global ecology International focus and range of ecosystems makes Global Ecology an indispensable resource to scientists Based on the bestselling Encyclopedia of Ecology Full color figures and tables support the text and aid in understanding

Strontium Contamination in the Environment Pankaj Pathak, Dharmendra K. Gupta, 2019-06-04 This book provides an authoritative review of the origin and extraction of strontium and its impact on the environment. It also presents the latest strontium decontamination and remediation strategies. Around the globe, nuclear power is being recognized as a major source of energy and is expected to play a crucial role in meeting the energy requirements of present-day society. However, the pros and cons have to be considered, and the safe disposal of large amounts of radionuclide wastes is becoming a matter of great concern. These wastes encompass contaminants such as heavy metals and toxic substances which may exist in solid, liquid, or gaseous forms or a combination of these, and as such their disposal requires particular attention. The book focuses on ^{90}Sr which is a predominant isotope of strontium and considered an intermediate-level radioactive waste with a half-life of 28.8 years, average biological half-life of 18 years, and 546 KeV decay energy. Written by expert contributors, it addresses occurrence, detection, and extraction of strontium, the chemical and nuclear properties of strontium isotopes, the fate and migration of strontium in soil, its bioaccumulation, and its associated health impact, mechanistic toxicity response, as well as related regulation and remediation. It appeals to scholars, scientists, and environmental managers working with strontium contamination in the environment and its consequences. *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* by 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 particular dirty bombs. Detailed description of processes and parameters governing the severity of contaminating incidents. Written by key experts in the world.

Atmospheric Nuclear Tests Charles S. Shapiro, 2013-06-29 Radionuclides produced by past nuclear weapon test explosions comprise the largest source of anthropogenic radioactivity released into the earth's atmosphere to date. This

volume presents data and models about the fate of the released radionuclides and their possible effects on human health It is divided into the following three parts Source Term Studies Dose Reconstruction Ecological and Health Effects and comprises both Western and formerly secret Soviet research studies illuminates past and current research Air Pollution Modeling and its Application XV Carlos Borrego, Guy Schayes, 2007-05-08 In 1969 the North Atlantic Treaty Organization NATO established the Committee on Challenges of Modern Society CCMS The subject of air pollution was from the start one of the priority problems under study within the framework of various pilot studies undertaken by this committee The organization of a periodic conference dealing with air pollution modelling and its application has become one of the main activities within the pilot study relating to air pollution These international conferences were successively organized by the United States first five Federal Republic of Germany five Belgium five The Netherlands four and Denmark five With this one Portugal takes over the duty This volume contains the papers and poster abstracts presented at the NATO CCMS International Technical Meeting on Air Pollution Modelling and Its Application held in Louvain la Neuve Belgium during 15-19 October 2001 This ITM was jointly organized by the University of Aveiro Portugal Pilot country and by the Catholic University of Louvain Belgium host country The ITM was attended by 78 participants representing 26 countries from Western and Eastern Europe North and South America Asia Australia and Africa The main topics of this ITM were Role of Atmospheric Models in Air Pollution Policy and Abatement Strategies Integrated Regional Modelling Global and Long Range Transport Regional Air Pollution and Climate New Developments and Model Assessment and Verification *Mineral Components in Foods* Piotr Szefer, Jerome O. Nriagu, 2006-11-29 Recent studies have raised concerns about the health effects of dietary exposure to trace elements An estimated 40 percent of the world's population suffers from developmental and metabolic functional disorders due to trace element deficiencies Conversely there is an established link between excess intake of mineral components and diseases of th

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 *Diversity in Coastal Marine Sciences* Charles W. Finkl, Christopher Makowski, 2017-09-19 This book integrates a wide range of subjects into a coherent purview of the status of coastal marine science Designed for the professional or specialist in coastal science oceanography and related disciplines this work will appeal to workers in multidisciplinary fields that strive for practical solutions to environmental problems in coastal marine settings around the world Examples are drawn from many different geographic areas including the Black Sea region Subject areas covered include aspects of coastal marine geology physics chemistry biology and history These subject areas were selected because they form the basis for integrative investigation of salient environmental problems or perspective solutions or interpretation of historical context *The American Bibliography of Slavic and East European Studies* Patt Leonard, Rebecca Routh, 2020-02-27 This bibliography first published in 1957 provides citations to North American academic literature on Europe Central Europe the Balkans the Baltic States and the former Soviet Union Organised by discipline it covers the arts humanities social sciences life sciences and technology *Equidosimetry* F. Bréchnignac, G. Desmet, 2007-05-22 Considerable experience with radioecological and related ecological research on terrestrial and aquatic ecosystems has been achieved especially after the Chernobyl accident The combined effects of the radiation chemical and biological factors after a contamination of the environment and during its remediation have shown an interactive complexity that highlights the need for equidosimetrical evaluations of the influence of the various stressors and the need for their ecological normalization In radioecology and radiation protection methods of radiation dosimetry are key for dose assessment It is therefore highly desirable to develop a clear theoretical approach as well as a practical method of equidosimetry that would allow for an ecological normalization of the different stressors in unified uniform units especially for comparison purposes **Ocular Radiation Risk Assessment in Populations Exposed to Environmental Radiation Contamination** A.K. Junk, Y. Kundiev, P. Vitte, B. V. Worgul, 1998-10-31 The global medical and scientific communities need to standardize methodologies and agree on minimum criteria to permit inter study comparisons This book develops such standards presenting a series of recommendations that represent the first codification of the manner in which studies should be executed *Lake Issyk-Kul: Its Natural Environment* J. Klerx, Beishen Imanackunov, 2012-12-06 Lake Issyk Kul is a closed lake located in the Tien Shan mountain belt of the Republic of Kyrgyzstan It is the world's fifth deepest lake 668 m and the second largest high altitude lake in the world 1607 m above sea level The lake is affected by several environmental threats of both anthropogenic and natural origin decline of the lake level resulting in progressively increasing salinity incomplete vertical water exchange and risk of contamination by past and present industrial activity Although the lake has been intensively studied the information is

only available in unpublished reports or local scientific journals This book presents for the first time to an international audience the main physical chemical biological and geological characteristics of the lake the fruits of many years of observations complemented by recent results of international projects Case studies of similar problems in other parts of the world are presented together with ethical aspects of the environmental protection of the lake

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