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# Radionuclide Distribution and Transport in Terrestrial and Aquatic Ecosystems

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VOLUME THREE



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# Radionuclide Distribution And Transport In Terrestrial And Aquatic Ecosystems Volume 3

**Peter Warwick**



### **Radionuclide Distribution And Transport In Terrestrial And Aquatic Ecosystems Volume 3:**

**Chernobyl** Jim Smith, Nicholas A. Beresford, 2006-08-29 As the debate about the environmental cost of nuclear power and the issue of nuclear safety continues a comprehensive assessment of the Chernobyl accident its long term environmental consequences and solutions to the problems found is timely Although many books have been published which discuss the accident itself and the immediate emergency response in great detail none have dealt primarily with the environmental issues involved The authors provide a detailed review of the long term environmental consequences in a wide range of ecosystems many of which are only now becoming apparent They also highlight responses and counter measures to combat the environmental consequences and discuss health social psychological and economic impacts on the human population as well as the long term effects on biota

**Biophysico-Chemical Processes of Heavy Metals and Metalloids in Soil Environments** Antonio Violante, Pan Ming Huang, Geoffrey M. Gadd, 2008-02-13 Written by a multidisciplinary group of soil and environmental scientists Biophysico Chemical Processes of Heavy Metals and Metalloids in Soil Environments provides the scientific community with a critical qualitative and quantitative review of the fundamentals of the processes of pollutants in soil environments The book covers pollutants speciation mobility bioavailability and toxicity and impacts on development of innovative restoration strategies In addition the development of innovative remediation strategies for polluted soils is covered

**Behavior of Radionuclides in the Environment II** Alexei Konoplev, Kenji Kato, Stepan N. Kalmykov, 2020-05-19 This is Volume II in a three volume set on the Behavior of Radionuclides in the Environment focusing on Chernobyl Now so many years after the Chernobyl accident new data is emerging and important new findings are being made The book reviews major research achievements concerning the behavior of Chernobyl derived radionuclides including their air transport and resuspension mobility and bioavailability in the soil water environment vertical and lateral migration in soils and sediments soil to plant and soil to animal transfer and water to aqueous biota transfer The long term dynamics of radionuclides in aquatic ecosystems are also discussed in particular the heavily contaminated cooling pond of the Chernobyl Nuclear Power Plant which is in the process of being decommissioned Lessons learned from long term research on the environmental behavior of radionuclides can help us understand the pathways of environmental contamination which in turn will allow us to improve methods for modeling and predicting the long term effects of pollution This book features a wealth of original data and findings many of which have never been published before or were not available internationally The contributing authors are experts from Ukraine Russia and Belarus with more than 30 years of experience investigating Chernobyl derived radionuclides in the environment The content presented here can help to predict the evolution of environmental contamination following a nuclear accident and specifically the Fukushima Dai ichi nuclear power plant accident

**Technical Reports Series**, 2004 *Encyclopedia of Environmental Management, Four Volume Set* Sven Erik Jorgensen, 2012-12-13 Winner of an Outstanding Academic Title Award from CHOICE Magazine Encyclopedia of

Environmental Management gives a comprehensive overview of environmental problems their sources their assessment and their solutions Through in depth entries and a topical table of contents readers will quickly find answers to questions about specific pollution and management issues Edited by the esteemed Sven Erik Jørgensen and an advisory board of renowned specialists this four volume set shares insights from more than 500 contributors all experts in their fields The encyclopedia provides basic knowledge for an integrated and ecologically sound management system Nearly 400 alphabetical entries cover everything from air soil and water pollution to agriculture energy global pollution toxic substances and general pollution problems Using a topical table of contents readers can also search for entries according to the type of problem and the methodology This allows readers to see the overall picture at a glance and find answers to the core questions What is the pollution problem and what are its sources What is the big picture or what background knowledge do we need How can we diagnose the problem both qualitatively and quantitatively using monitoring and ecological models indicators and services How can we solve the problem with environmental technology ecotechnology cleaner technology and environmental legislation How do we address the problem as part of an integrated management strategy This accessible encyclopedia examines the entire spectrum of tools available for environmental management An indispensable resource it guides environmental managers to find the best possible solutions to the myriad pollution problems they face Also Available Online This Taylor Francis encyclopedia is also available through online subscription offering a variety of extra benefits for researchers students and librarians including Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact us to inquire about subscription options and print online combination packages US Tel 1 888 318 2367 email e reference taylorandfrancis com International Tel 44 0 20 7017 6062 email online sales tandf co uk

*Environmental Radiochemical Analysis II* Peter Warwick, 2007-10-31 Environmental Radiochemical Analysis II brings together comprehensive up to date information from international experts in the field Coverage includes information on new methods of radionuclide analyses developments and improvements in existing methods method comparisons gamma detector performance and new software products method uncertainty underground laboratory facilities method QA and QC field studies covering colloid work in situ injection into rock strata and sampling of reduced waters for actinide assay This stimulating authoritative text makes essential reading for practising radioanalysts and provides valuable information for researchers and professionals in academia and industry

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 *Heavy Metals in Soils* B. J. Alloway,1995

Heavy metals in soils continue to receive increasing attention due to the growing scientific and public awareness of environmental issues and the development of analytical techniques to measure their concentrations accurately Building on the success and acclaim of the first edition this book continues to provide an up to date balanced and comprehensive review of the subject in two sections the first providing an introduction to the metals chemistry sources and methods used for their analysis and the second containing chapters dealing with individual elements in detail Global Climate Change Suruchi Singh,Pardeep Singh,Rangabhashiyam Selvasembian,K.K. Srivastava,2021-03-11 Global Climate Change presents both practical and theoretical aspects of global climate change from across geological periods It addresses holistic issues related to climate change and its contribution in triggering the temperature increase with a multitude of impacts on natural processes As a result it helps to identify the gaps between policies that have been put in place and the continuously increasing emissions The challenges presented include habitability biodiversity natural resources and human health It is organized into information on the past present and future of climate change to lead to a more complete understanding and therefore effective solutions Placing an emphasis on recent climate change research Global Climate Change helps to bring researchers and graduate students in climate science environmental science and sustainability up to date on the science of climate change so far and presents a baseline for how to move into the future effectively Addresses the variety of challenges associated with climate change along with possible solutions Includes suggestions for future research on climate change Covers climate change holistically including global and regional scales ecosystems agriculture energy and sustainability Presents both practical and theoretical research including coverage of climate change over various geological periods

**Metalloids in Plants** Rupesh Deshmukh,Durgesh Kumar Tripathi,Gea Guerriero,2020-06-29 Understanding metalloids and the potential impact they can have upon crop success or failure Metalloids have a complex relationship with plant life Exhibiting a combination of metal and non metal characteristics this small group of elements which includes boron B silicon

Si germanium Ge arsenic As antimony Sb and tellurium Te may hinder or enhance the growth and survival of crops The causes underlying the effects that different metalloids may have upon certain plants range from genetic variance to anatomical factors the complexities of which can pose a challenge to botanists and agriculturalists of all backgrounds With Metalloids in Plants a group of leading plant scientists present a complete guide to the beneficial and adverse impacts of metalloids at morphological anatomical biochemical and molecular levels Insightful analysis of data on genetic regulation helps to inform the optimization of farming indicating how one may boost the uptake of beneficial metalloids and reduce the influence of toxic ones Contained within this essential new text there are Expert analyses of the role of metalloids in plants covering their benefits as well as their adverse effects Explanations of the physiological biochemical and genetic factors at play in plant uptake of metalloids Outlines of the breeding and genetic engineering techniques involved in the generation of resistant crops Written for students and professionals in the fields of agriculture botany molecular biology and biotechnology Metalloids in Plants is an invaluable overview of the relationship between crops and these unusual elements **The Zoological Record** ,1987 *Handbook of Parameter Values for the Prediction of Radionuclide Transfer in Temperate Environments* International Atomic Energy Agency,1994 This handbook has been produced in collaboration with the International Union of Radioecologists It should serve as a convenient and authoritative reference for radionuclide transfer parameter values used in biospheric assessment models It supplements Safety Series No 57 1982 Generic Models and Parameters for Assessing the Environmental Transfer of Radio nuclides from Routine Releases **Radioactive Fallout in Soils, Crops, and Food** F. P. W. Winteringham,1989-01-01 Behaviour and significance of radioactive substances released into agricultural forestry and fisheries ecosystems soil and crop contamination by radioactive fallout Notes on intervention and derived intervention levels in relation to food and agriculture Glossary of terms definitions units abbreviations acronyms [Environmental Management Handbook, Second Edition - Six Volume Set](#) Sven Erik Jorgensen,Brian D. Fath,2022-07-30 Bringing together a wealth of knowledge the Handbook of Environmental Management Second Edition gives a comprehensive overview of environmental problems their sources their assessment and their solutions Through in depth entries and a topical table of contents readers will quickly find answers to questions about pollution and management issues This six volume set is a reimagining of the award winning Encyclopedia of Environmental Management published in 2013 and features insights from more than 500 contributors all experts in their fields The experience evidence methods and models used in studying environmental management is presented here in six stand alone volumes arranged along the major environmental systems Features of the new edition The first handbook that demonstrates the key processes and provisions for enhancing environmental management Addresses new and cutting edge topics on ecosystem services resilience sustainability food energy water nexus socio ecological systems and more Provides an excellent basic knowledge on environmental systems explains how these systems function and offers strategies on how to best manage them Includes the

most important problems and solutions facing environmental management today      **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      **Radionuclide Contamination and Remediation Through Plants**

Dharmendra Kumar Gupta, Clemens Walther, 2014-07-14 This book focuses on the mechanistic microscopic understanding of radionuclide uptake by plants in contaminated soils and potential use of phytoremediation The key features concern radionuclide toxicity in plants how the radioactive materials are absorbed by plants and how the plants cope with the toxic responses The respective chapters examine soil classification natural plant selection speciation of actinides kinetic modeling and case studies on cesium uptake after radiation accidents Radionuclide contaminants pose serious problems for biological systems due to their chemical toxicity and radiological effects The processes by which radionuclides can be incorporated into vegetation can either originate from activity interception by external plant surfaces either directly from the atmosphere or from resuspended material or through uptake of radionuclides via the root system Subsequent transfer of toxic elements to the human food chain is a concrete danger Therefore the molecular mechanisms and genetic basis of transport into and within plants needs to be understood for two reasons The effectiveness of radionuclide uptake into crop plants so called transfer coefficient is a prerequisite for the calculation of dose due to the food path On the other hand efficient radionuclide transfer into plants can be made use of for decontamination of land so called phytoremediation the direct use of living green

plants for in situ removal of pollutants from the environment or to reduce their concentrations to harmless levels

**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

**Radionuclide Distribution and Transport in Terrestrial and Aquatic Ecosystems: A Critical Review of Data: VOLUME FIVE.** ,1984 *Metals in Coastal Environments of Latin America* Ulrich Seeliger,Luiz D. de Lacerda,S.R. Patchineelam,2012-12-06 For the first time a state of the art of present metal pollution along the coastline of Latin America is provided This collection of papers from a conference held in August 1986 in Rio de Janeiro Brazil is designed to inform readers of recent advances in an important interdisciplinary field Primary focus is on Metal Surveys Metals in Sediments Metals in Biota Metal Transport and Cycles Metal Monitoring A final chapter combines conclusion outlook and recommendations of how to master the critical situation of metal concentrations in coastal environments of Latin America This book fills a long standing gap in the literature and will be of prime interest to researchers students and professionals in geology biology and chemistry **Energy Research Abstracts** ,1992



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