

Radionuclide Distribution and Transport in Terrestrial and Aquatic Ecosystems

P. L. COUGHTREY / D. JACKSON / C. H. JONES / M. C. THORNE
Associated Nuclear Services, Queens, UK

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Radionuclide Distribution And Transport In Terrestrial And Aquatic Ecosystems Volume

Yicheng Fang



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Radionuclide Distribution and Transport in Terrestrial and Aquatic Ecosystems: A Critical Review of Data: VOLUME FIVE. ,1984 **Radionuclide distribution and transport in terrestrial and aquatic ecosystems** P.J. Coughtrey,D. Jackson,M.C. Thorne,1984-01-01 Radionuclide Distribution and Transport in Terrestrial and Aquatic Ecosystems. A Critical Review VOLUME ONE. ,1985 *Radionuclide distribution and transport in terrestrial and aquatic ecosystems* P.J. Coughtrey,D. Jackson,M.C. Thorne,1984-01-01 **Radionuclide Distribution and Transport in Terrestrial and Aquatic Ecosystems: A Compendium of Data: VOLUME SIX.** ,1985 **Radionuclide Distribution and Transport in Terrestrial and Aquatic Ecosystems: A Critical Review of Data: VOLUME FOUR.** ,1984

Radionuclide Distribution and Transport in Terrestrial and Aquatic Ecosystems A Critical Review of Data. Volume Three ,1983 Radionuclide Distribution and Transport in Terrestrial and Aquatic Ecosystems. A Critical Review of Data VOLUME TWO. ,1983 *Handbook on Radiation Environment, Volume 1* Dinesh Kumar Aswal,2024-05-18 This handbook provides a comprehensive review of radiation present in the environment its sources dose measurement techniques exposures in natural and man made radiation environments policies governing radiation safety societal applications of radiation technology radiological and nuclear events preparedness response and mitigation of radiation emergencies It covers natural and man made radiation environment with an emphasis on renewed interest in nuclear energy as a clean and green source of power generation Additionally it reviews various approaches to understand the fate and behaviour of radionuclides in the terrestrial and aquatic ecosystems It also presents nuclear technology s diverse applications from diagnostic and therapeutic nuclear medicine to materials modifications and sustainable waste management strategies and the role of ionizing radiation in ensuring food security and safety The handbook also highlights the existing internationally adopted radiation protection policies which are originated from linear no threshold LNT model of dose response characteristics The scientific basis of LNT model and its limitations at low doses prompts a revision of the exiting radiation protection policies for better utilization of the benefits of ionizing radiation The handbook serves as a comprehensive resource for students academicians scientists engineers and policymakers interested in seeking an in depth knowledge of radiation and the multifaceted applications of radiation technology while protecting human health and the environment **Radionuclides in the Environment** Clemens Walther,Dharmendra K. Gupta,2015-10-30 This book provides extensive and comprehensive information to researchers and academicians who are interested in radionuclide contamination its sources and environmental impact It is also useful for graduate and undergraduate students specializing in radioactive waste disposal and its impact on natural as well as manmade environments A number of sites are affected by large legacies of waste from the mining and processing of radioactive minerals Over recent decades several hundred radioactive isotopes radioisotopes of natural elements have been produced artificially including 90Sr 137Cs and 131I Several

other anthropogenic radioactive elements have also been produced in large quantities for example technetium neptunium plutonium and americium although plutonium does occur naturally in trace amounts in uranium ores The deposition of radionuclides on vegetation and soil as well as the uptake from polluted aquifers root uptake or irrigation are the initial point for their transfer into the terrestrial environment and into food chains There are two principal deposition processes for the removal of pollutants from the atmosphere dry deposition is the direct transfer through absorption of gases and particles by natural surfaces such as vegetation whereas showery or wet deposition is the transport of a substance from the atmosphere to the ground by snow hail or rain Once deposited on any vegetation radionuclides are removed from plants by the airstream and rain either through percolation or by cuticular scratch The increase in biomass during plant growth does not cause a loss of activity but it does lead to a decrease in activity concentration due to effective dilution There is also systemic transport translocation of radionuclides within the plant subsequent to foliar uptake leading the transfer of chemical components to other parts of the plant that have not been contaminated directly

Radiological Risk Assessment and Environmental Analysis John E. Till, Helen A. Grogan, 2008-07-10 *Radiological Risk Assessment and Environmental Analysis* comprehensively explains methods used for estimating risk to people exposed to radioactive materials released to the environment by nuclear facilities or in an emergency such as a nuclear terrorist event This is the first book that merges the diverse disciplines necessary for estimating where radioactive materials go in the environment and the risk they present to people It is not only essential to managers and scientists but is also a teaching text The chapters are arranged to guide the reader through the risk assessment process beginning with the source term where the radioactive material comes from and ending with the conversion to risk In addition to presenting mathematical models used in risk assessment data is included so the reader can perform the calculations Each chapter also provides examples and working problems The book will be a critical component of the rebirth of nuclear energy now taking place as well as an essential resource to prepare for and respond to a nuclear emergency

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

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

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

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 J rgensen 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

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 *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

Handbook of Processes and Modeling in the Soil-Plant System Rolf Nieder,D. Benbi,2024-11-01 Learn to create and use simulation modelsthe most reliable and cost effective tools for predicting real world results The Handbook of Processes and Modeling in the Soil Plant System is the first book to present a holistic view of the processes within the soil plant atmosphere continuum Unlike other publications which tend to be more specialized this book covers nearly all of the processes in the soil plant system including the fundamental processes of soil formation degradation and the dynamics of water and matter It also illustrates how simulation modeling can be used to understand and forecast multiple interactions among various processes and predict their environmental impact This unique volume assembles information that until now was scattered among journals bulletins reports and symposia proceedings to present models that simulate almost all of the processes occurring in the soil plant system and explores the results that these models are capable of producing With chapters authored by experts with years of research and teaching experience the Handbook of Processes and Modeling in the Soil Plant System examines physical chemical and biological soil processes the soil formation and weathering process and its modeling the impact of radioactive fallout on the soil plant system soil degradation processes and ways to control them water and matter dynamics in the soil plant system growth and development of crops at various levels of production the potentials and limitations of using simulation models Students educators and professionals alike will find the Handbook of Processes and Modeling in the Soil Plant System an invaluable reference on the soil plant atmosphere system and an ideal tool to help develop an effective decision support system

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

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This book delves into Radionuclide Distribution And Transport In Terrestrial And Aquatic Ecosystems Volume . Radionuclide Distribution And Transport In Terrestrial And Aquatic Ecosystems Volume is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Radionuclide Distribution And Transport In Terrestrial And Aquatic Ecosystems Volume , encompassing both the fundamentals and more intricate discussions.

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- Chapter 2: Essential Elements of Radionuclide Distribution And Transport In Terrestrial And Aquatic Ecosystems Volume
- Chapter 3: Radionuclide Distribution And Transport In Terrestrial And Aquatic Ecosystems Volume in Everyday Life
- Chapter 4: Radionuclide Distribution And Transport In Terrestrial And Aquatic Ecosystems Volume in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Radionuclide Distribution And Transport In Terrestrial And Aquatic Ecosystems Volume . This chapter will explore what Radionuclide Distribution And Transport In Terrestrial And Aquatic Ecosystems Volume is, why Radionuclide Distribution And Transport In Terrestrial And Aquatic Ecosystems Volume is vital, and how to effectively learn about Radionuclide Distribution And Transport In Terrestrial And Aquatic Ecosystems Volume .
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5. In chapter 4, this book will scrutinize the relevance of Radionuclide Distribution And Transport In Terrestrial And Aquatic Ecosystems Volume in specific contexts. This chapter will explore how Radionuclide Distribution And Transport In Terrestrial And Aquatic Ecosystems Volume is applied in specialized fields, such as education, business, and technology.
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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Radionuclide Distribution And Transport In

Terrestrial And Aquatic Ecosystems Volume .

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