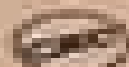


Radionuclide Distribution and Transport in Terrestrial and Aquatic Ecosystems

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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 *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 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

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.

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 ^{90}Sr , ^{137}Cs and ^{131}I . 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 atmosphere 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

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

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

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 *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 Fish Physiology:

Homeostasis and Toxicology of Essential Metals, 2011-06-28 *Homeostasis and Toxicology of Essential Metals* synthesizes the explosion of new information on the molecular cellular and organismal handling of metals in fish in the past 15 years These elements are no longer viewed by fish physiologists as heavy metals that kill fish by suffocation but rather as interesting moieties that enter and leave fish by specific pathways which are subject to physiological regulation The metals featured in this volume are those about which there has been most public and scientific concern and therefore are those most widely studied by fish researchers Metals such as Cu Zn Fe Ni Co Se Mo and Cr are either proven to be or are strongly suspected to be essential in trace amounts yet are toxic in higher doses The companion volume *Homeostasis and Toxicology of Non Essential Metals Volume 31B* covers metals that have no known nutritive function in fish at present but which are toxic at fairly low levels such as Ag Al Cd Pb Hg As Sr and U In addition three chapters in Volumes 31A and 31B on Basic Principles Chapter 1 31A Field Studies and Ecological Integration Chapter 9 31A and Modeling the Physiology and Toxicology of Metals Chapter 9 31B act as integrative summaries and make these two volumes a vital set for readers All major essential metals of interest are covered in metal specific chapters Each metal specific chapter is written by fish physiologists toxicologists who are recognized authorities for that metal A common format is featured throughout this two volume edition Plutonium and

the Rio Grande William L. Graf, 1994-12-29 The first atomic bombs were constructed at the Los Alamos National Laboratory where lab workers disposed of waste plutonium in nearby canyons leading to the Rio Grande Today the environmental consequences are just beginning to be understood as scientists examine the effects created by past mishandling of one of the most toxic chemical wastes known Written in an engaging accessible style *Plutonium and the Rio Grande* is the first book to offer a complete exploration of this environmental history It includes an explanation of what plutonium is how much of it was

released by the Los Alamos workers and how much entered the river system directly from waste disposal and indirectly as a result of atomic bomb fallout The book includes extensive appendices maps diagrams and photographs Environmental managers ecologists hydrologists and other river specialists as well as concerned general readers will find the book readable and informative

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 Tcha 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

The Environmental Challenges of Nuclear Disarmament Thomas E.

Baca, Tadeusz Florkowski, 2012-12-06 The end of the Cold War marked the beginning of a new era of facing the legacy of the arms race The enormous challenge confronting us now is to strengthen the fragile nature of the new political balance The beginning of this new historical period is characterized by mistrust and the best way to ease these tensions is through international collaborations Moreover the intimate nature of close non invasive collaborative work on environmental problems can help establish a secure foundation of mutual understanding and trust Environmental projects are non threatening to national security issues and may involve collaborations throughout the international weapons complex Personal and individual scientific relationships quite often spearhead agreements at the government to government level Environmental and nonproliferation issues are of great importance to the citizens of Russia to the states of the Former Soviet Union and to neighboring countries The activities associated with decontamination and decommissioning of old facilities environmental restoration security enhancements monitoring and surveillance and risk reduction should provide a significant employment potential for scientists and engineers of the weapons complex of the Former Soviet Union

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