



Fukushima Accident Radioactivity Impact On The Environment

Tomoko M. Nakanishi, Keitaro Tanoi



Fukushima Accident Radioactivity Impact On The Environment:

Fukushima Accident Pavel P. Povinec, Katsumi Hirose, Michio Aoyama, 2013-07-09 Fukushima Accident presents up to date information on radioactivity released to the atmosphere and the ocean after the accident on the Fukushima Dai ichi nuclear power plant on the distribution of radionuclides in the world atmosphere and oceans and their impact on the total environment man fauna and flora The book will evaluate and discuss the post Fukushima situation emphasizing radionuclide impacts on the terrestrial and marine environments and compare it with the pre Fukushima sources of radionuclides in the environment The authors results as well as knowledge gathered from the literature will provide up to date information on the present status of the topics Fukushima Accident is based on the environmental and nuclear research however the presentation will be suitable for university level readers 2013 PROSE Award winner in Environmental Science from the Association of American Publishers Covers atmospheric and marine radioactivity providing information on the global atmospheric dispersion of radionuclides in the atmosphere and world oceans Examines radiation doses to the public and biota to understand the health risks to the public and ecosystems Provides information on monitoring radionuclides in the environment information on sources of radionuclides their temporal and spatial variations and radionuclide levels Covers transport of radionuclides from different sources e g nuclear power plants as well as atmospheric simulations and modeling approaches

Fukushima Accident Pavel P. Povinec, Katsumi Hirose, Michio Aoyama, Yutaka Tateda, 2021-07-23 Fukushima Accident 10 Years After evaluates the post Fukushima accident situation with up to date information emphasizing radionuclide impacts on the terrestrial and marine environments and comparing them to the pre Fukushima accident levels of radionuclides in the environment This is based on scientific results as well as knowledge gathered from literature to provide current information on the present status summarize 10 years of data on the Fukushima accident and describe the present situation in the local regional and global time and space scales It provides data on radioactivity released into the atmosphere and the ocean the distribution of radionuclides in the world atmosphere and oceans and their impact on the total environment including assessments of radiation doses in Japanese and world populations from consumption of terrestrial food and seafood It goes on to describe future aspects of the radioactive contamination of these environments and the health implications This book informs environmental scientists academics and researchers in environmental science and nuclear energy as well as postgraduate students in the field of environmental science radioactivity and nuclear energy on the present situation of radioactive contamination of Japan and in the world Covers the Fukushima radioactivity impact on humans and the environment from the accident to the present Provides full information on radiation doses to Japanese citizens and biota as well as to the world population 10 years after the Fukushima accident Details transport of radionuclides in terrestrial and ocean environments describing how to apply this information to ocean global circulation models and quantify radionuclide contamination of coastal regions Assesses future trends in radioactive contamination of the Fukushima site **Radiological**

Issues for Fukushima's Revitalized Future Tomoyuki Takahashi, 2016-01-12 This book overviews environmental issues 4 years after the Fukushima nuclear accident covering a wide range of areas related to radiation and radioactivity The topics discussed are necessary to make clear the relationship between the results of research and Fukushima's revitalized future The chapters are divided into four parts Part 1 presents the identification of radionuclides in soil and migration of radionuclides in the terrestrial environment Part 2 describes the safety decontamination system and treatment of radioactive waste Part 3 explains the development of the system of measurement of environmental radiation and evaluation of external exposure and Part 4 discusses the identification of radionuclides in farm products control of root uptake identification of decreasing radionuclides by food processing and evaluation of internal exposure Since the accident at the Tokyo Electric Power Company's Fukushima Daiichi nuclear power station in 2011 gradual steps have been taken toward environmental recovery in the area However there are still many issues that need to be tackled in order to achieve the full revitalization of Fukushima These issues encompass many different disciplines such as economics psychology and sociology In this kind of situation the role of science in relation to radiation and radioactivity is especially important This book aims to contribute to planning countermeasures against nuclear disasters in the future It will be of particular interest to governmental officials who are engaged with the Fukushima nuclear accident researchers including those in international sectors who are interested in radiological issues and those who need comprehensive and reliable information about the Fukushima accident

Radioactivity Michael Wiescher, 2025-01-16 This book provides an accessible introduction to radioactivity The second in a two volume set this volume is presented in two parts covering its development and modern applications It first explores the development and applications of technically enhanced natural radioactivity TENR and addresses nuclear energy sources the fission and fusion processes and the issues of radioactive fallout from nuclear weapon use and test programs Later chapters explore the cutting edge medical applications of radioactive materials in diagnostics and therapy exploring nuclear medicine technologies such as x ray tomography brachytherapy and positron emission tomography PET They also detail the broad range of applications of radioactive materials in industrial production processes in the sterilization of tools and materials in the medical and the food industries and in the analysis of art and archaeological material to analyse paintings and painting techniques to identify fakes and forgeries The book concludes with a discussion of the societal impact and understanding of radioactivity alongside detailing the underlying reasons for its negative preconceptions and the possible mitigation of these through better education and information practices This book will be of interest to non science undergraduate and physics graduate students alike as well as to interested lay people looking for an introduction to radioactivity Key Features Written in an accessible style to be understood by readers without a formal scientific education Highly illustrated throughout Authored by an expert in the field drawing from decades of experience in experimental nuclear physics

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

Environmental Contamination from the Fukushima Nuclear Disaster Teruyuki Nakajima,Toshimasa Ohara,Mitsuo Uematsu,Yuichi Onda,2019-08-15 Unique summary of the environmental impact of the 2011 disaster at the Fukushima Daiichi Nuclear Power Station for researchers nuclear engineers and policymakers [Unravelling the Fukushima Disaster](#) Mitsuo Yamakawa,Daisaku Yamamoto,2016-11-10 The Fukushima disaster continues to appear in national newspapers when there is another leakage of radiation contaminated water evacuation designations are changed or major compensation issues arise and so remains far from over However after five years attention and research towards the disaster seems to have waned despite the extent and significance of the disaster that remains The aftermath of Fukushima exposed a number of shortcomings in nuclear energy policy and disaster preparedness This book gives an account of the municipal responses citizen s responses and coping attempts before during and after the Fukushima crisis It focuses on the background of the Fukushima disaster from the Tohoku earthquake to diffusion on radioactive material and risk miscommunication It explores the processes and politics of radiation contamination and the conditions and challenges that the disaster evacuees have faced reflecting on the evacuation process evacuation zoning and hope in a post Fukushima environment The book will be of great interest to students and scholars of disaster management studies and nuclear policy *Radioactivity in the Environment* Vlado Valkovic,2019-04-17 Radioactivity in the Environment Second Edition presents the facts on the presence of both natural and manmade radionuclides in the environment Sources of ionizing radiation that can lead to human exposure are discussed including natural sources nuclear explosions nuclear power generation the use of radiation in medical industrial and research purposes and radiation emitting consumer products In this thoroughly updated edition users will find new sections on developments in radioactive nuclides in nature and technologically modified exposure to natural radiation new threats by terrorist individuals groups and countries changes to the status of nuclear power in the world and more Additional new sections cover radioisotopes in geo prospecting and the oil industry the use of radiation in environmental protection detector types and detectors used for personal dosimetry the Dirty Bomb the Fukushima accident and North Korea testing sites and nuclear capabilities Includes details of analytical laboratory procedures for radioactivity measurement in different samples Features a new chapter on decontamination after radiation exposure Expands the discussion on nuclear fusion to

cover ITER and other installations

Radioactivity - Two-Volume Set Michael Wiescher, 2025-02-28 The first volume is presented in two parts covering radiation physics and natural radiation exposure It first explores the discovery and physics of the phenomenon of radioactivity covering the discovery of radioactive decay and the historical development of the physics and applications of radioactivity through to 1940 Chapters then present descriptive summaries of the physics of the atom and the atomic nucleus mass and energy conditions the nature of isotopes and the different decay patterns Chapter three discusses decay laws and introduces natural origins of radioactivity as well as methods for producing radioactive isotopes through nuclear reaction processes in reactor and accelerator The book then provides an introduction on dosimetry radiation chemistry and impact of radiation on biological systems The second half of the book details natural radioactivity and the role of radioactivity in the formation of the planetary system and our Earth The author describes how the inner radioactivity of our planet determines its dynamics and how it could have contributed to the origins of life The volume concludes with an exploration of the external and internal radioactivity to which humans are exposed and their possible side effects The second volume is presented in two parts covering its development and modern applications It first explores the development and applications of technically enhanced natural radioactivity TENR and addresses nuclear energy sources the fission and fusion processes and the issues of radioactive fallout from nuclear weapon use and test programs Later chapters explore the cutting edge medical applications of radioactive materials in diagnostics and therapy exploring nuclear medicine technologies such as x ray tomography brachytherapy and positron emission tomography PET They also detail the broad range of applications of radioactive materials in industrial production processes in the sterilization of tools and materials in the medical and the food industries and in the analysis of art and archaeological material to analyse paintings and painting techniques to identify fakes and forgeries The book concludes with a discussion of the societal impact and understanding of radioactivity alongside detailing the underlying reasons for its negative preconceptions and the possible mitigation of these through better education and information practices These books will be of interest to non science undergraduates and nuclear astrophysics physics graduate students looking for an introduction to radioactivity in addition to interested laypeople Key Features Written in an accessible style to be understood by readers without a formal scientific education Highly illustrated throughout Authored by an expert in the field drawing from decades of experience in experimental nuclear physics

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 existing 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.

Agricultural Implications of the Fukushima Nuclear Accident

Tomoko M. Nakanishi, Keitaro Tanoi, 2016-02-25. This book reports the results from on-site research into radioactive cesium contamination in various agricultural systems affected by the Fukushima Daiichi Nuclear Power Plant accident that occurred in March 2011. This is the second volume from the research groups formed in the Graduate School of Agricultural and Life Sciences of The University of Tokyo who have published the initial data in their first volume. In this book, additional data collected in the subsequent years are presented to show how the radioactivity level in agricultural products and their growing environments have changed with time. The data clarify the route by which radioactive materials entered agricultural products and their movement among different components, e.g., soil, water, and trees within an environmental system, e.g., forests. The book consists of various topics including radioactivity inspection of food products, decontamination trials for rice and livestock production, the state of contamination in wild animals and birds, trees, mushrooms, and timber, the dynamics of radioactivity distribution in mountain and paddy fields, damage incurred by the forestry and fishery industries, and the change in consumers' minds. The last chapter introduces a real-time radioisotope imaging system, the forefront technique to visualize actual movement of cesium in soil and in plants. This is the only book to provide systematic data about the actual change of radioactivity and thus is of great value for all researchers who wish to understand the effect of radioactive fallout on agriculture. The project is ongoing; the research groups continue their work in the field for further evaluation of the long-term effects.

Behavior of Radionuclides in the Environment III

Kenji Nanba, Alexei Konoplev, Toshihiro Wada, 2022-03-14. This book, the third in the series Behavior of Radionuclides in the Environment, is dedicated to Fukushima. Major findings from research since 2011 are reviewed concerning the behavior of radionuclides released into the environment due to the Fukushima Daiichi Nuclear Power Plant accident, including atmospheric transport and fallout of radionuclides, their fate and transport in the soil-water environment, behavior in freshwater, coastal, and marine environment, transfer in the terrestrial and agricultural environment. Volume III discusses not only radionuclides dynamics in the environment in the short and mid-term but also modeling and prediction of long-term time changes. Along with reviews, the book contains original data and results not published previously. It was spearheaded by the authors from the Institute of Environmental Radioactivity at Fukushima.

University established two years after the Fukushima accident with their collaborators from Japan Russia and Ukraine The knowledge emerging from the studies of the environmental behavior of Fukushima derived radionuclides enables us to move forward in understanding mechanisms of environmental contamination and leads to better modeling and prediction of long term pollution effects in general

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

Industrial and Medical Nuclear Accidents Jean-Claude Amiard,2019-06-03 The peaceful use of atomic energy has given rise to a variety of nuclear accidents from the start This concerns all forms of use industrial and medical For each accident Industrial and Medical Nuclear Accidents details the contamination of the environment flora and fauna and quantifies the effects of ionizing radiation The book also examines the adverse effects on the health both physical and mental of the human populations concerned The monetary cost is also evaluated The research presented in this book is based on scientifically recognized publications and on the reports of national and international organizations competent in this field IAEA WHO UNSCEAR IRSN etc The book contains chapters devoted to the most recent accidents Chernobyl and Fukushima with a large body of institutional and academic literature

[Handbook of Radioactivity Analysis](#) Michael F. L'Annunziata,2020-03-07 Handbook of Radioactivity Analysis Radiation Physics and Detectors Volume One and Radioanalytical Applications Volume Two Fourth Edition constitute an authoritative reference on the principles practical techniques and procedures for the accurate measurement of radioactivity everything from the very low levels encountered in the environment to higher levels measured in radioisotope research clinical laboratories biological sciences radionuclide standardization nuclear medicine nuclear power and fuel cycle facilities and in the implementation of nuclear forensic analysis and nuclear safeguards It includes sample preparation techniques for all types of matrices found in the environment including soil water air plant matter and animal tissue and surface swipes Users will find the latest advances in the applications of radioactivity analysis across various fields including environmental monitoring radiochemical

standardization high resolution beta imaging automated radiochemical separation nuclear forensics and more Spans two volumes Radiation Physics and Detectors and Radioanalytical Applications Includes a new chapter on the analysis of environmental radionuclides Provides the latest advances in the applications of liquid and solid scintillation analysis alpha and gamma spectrometry mass spectrometric analysis Cherenkov counting flow cell radionuclide analysis radionuclide standardization aerosol analysis high resolution beta imaging techniques analytical techniques in nuclear forensics and nuclear safeguards Describes the timesaving techniques of computer controlled automatic separation and activity analysis of radionuclides Provides an extensive table of the radiation characteristics of most radionuclides of interest for the radioanalytical chemist

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 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 Issues for Fukushima's Revitalized Future Tomoyuki Takahashi, 2016-02-11 This book overviews environmental issues 4 years after the Fukushima nuclear accident covering a wide range of areas related to radiation and radioactivity The topics discussed are necessary to make clear the relationship between the results of research and Fukushima's revitalized future The chapters are divided into four parts Part 1 presents the identification of radionuclides in soil and migration of radionuclides in the terrestrial environment Part 2 describes the safety decontamination system and treatment of radioactive waste Part 3 explains the development of the system of measurement of environmental radiation and evaluation of external exposure and Part 4 discusses the

identification of radionuclides in farm products control of root uptake identification of decreasing radionuclides by food processing and evaluation of internal exposure Since the accident at the Tokyo Electric Power Company's Fukushima Daiichi nuclear power station in 2011 gradual steps have been taken toward environmental recovery in the area However there are still many issues that need to be tackled in order to achieve the full revitalization of Fukushima These issues encompass many different disciplines such as economics psychology and sociology In this kind of situation the role of science in relation to radiation and radioactivity is especially important This book aims to contribute to planning countermeasures against nuclear disasters in the future It will be of particular interest to governmental officials who are engaged with the Fukushima nuclear accident researchers including those in international sectors who are interested in radiological issues and those who need comprehensive and reliable information about the Fukushima accident

Conspiracy Theories and the People who Believe Them Joseph E. Uscinski, 2019 Conspiracy theories are inevitable in complex human societies And while they have always been with us their ubiquity in our political discourse is nearly unprecedented Their salience has increased for a variety of reasons including the increasing access to information among ordinary people a pervasive sense of powerlessness among those same people and a widespread distrust of elites Working in combination these factors and many other factors are now propelling conspiracy theories into our public sphere on a vast scale In recent years scholars have begun to study this genuinely important phenomenon in a concerted way In *Conspiracy Theories and the People Who Believe Them* Joseph E. Uscinski has gathered forty top researchers on the topic to provide both the foundational tools and the evidence to better understand conspiracy theories in the United States and around the world Each chapter is informed by three core questions Why do so many people believe in conspiracy theories What are the effects of such theories when they take hold in the public What can or should be done about the phenomenon Combining systematic analysis and cutting edge empirical research this volume will help us better understand an extremely important yet relatively neglected phenomenon

Nuclear Weapons and the Environment John Perry, 2021-03-12 In *Nuclear Weapons and the Environment* John Perry highlights the environmental damage caused by nuclear device testing The failure of the Nuclear Proliferation Treaty and the continued proliferation of nuclear weapons is a grave risk to not only human life but to the environment Pointing to the unstable political situation between a variety of state and non state actors the remediation of nuclear test sites and the risks involved in the production of nuclear weapons Perry makes a clear case for the dire importance of non proliferation

Radioactive Risk for Humans Jean-Claude Amiard, Jean-Claude Zerbib, 2024-10-29 Once scientists discovered radioactivity they soon recognized its dangers However the assessment of radioactive risk to humans is still the subject of heated debate In this book the authors present a summary of past and recent scientific work on estimating radioactivity in the anthroposphere and the radioactive contamination of human beings They describe the various sources of exposure to ionizing radiation external internal and dietary and estimate the irradiation doses suffered by humans under various conditions both naturally occurring

for the general public and professionals and from accidents The harmful effects of ionizing radiation at various biological levels molecular cellular and tissue and health effects at the individual level are also discussed Particular focus will be placed on radiation induced occupational illnesses The relationship between doses of ionizing radiation and its harmful effects is discussed with reference to high medium and low doses The controversies on this subject are outlined and international and French regulatory values are provided Finally an estimate of the radioactive risk for humans is suggested

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