Fukushima311hd 141

Sentaro Takahashi

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.

Re-imagining Japan after Fukushima Tamaki Mihic,2020-03-11 The 2011 Tōhoku earthquake, tsunami and Fukushima nuclear disaster (collectively referred to as '3.11', the date of the earthquake), had a lasting impact on Japan's identity and global image. In its immediate aftermath, mainstream media presented the country as a disciplined, resilient and composed nation, united in the face of a natural disaster. However, 3.11 also drew worldwide attention to the negative aspects of Japanese government and society, thought to have caused the unresolved situation at Fukushima. Spurred by heightened emotions following the triple disaster, the Japanese became increasingly polarised between these two views of how to represent themselves. How did literature and popular culture respond to this dilemma? Re-imagining Japan after Fukushima attempts to answer that question by analysing how Japan was portrayed in post-3.11 fiction. Texts are selected from the Japanese, English and French languages, and the portrayals are also compared with those from non-fiction discourse. This book argues that cultural responses to 3.11 had a significant role to play in re-imagining Japan after Fukushima.

Lessons From Fukushima Yuko Fujigaki,2015-02-26 This book is about the consequences of the Fukushima disaster in light of their technological, societal, political, cultural and environmental origins. The magnitude of the nuclear accident is investigated in this book in the contexts of politics, economy, and society. The authors scrutinize the relationships between science, technology and society leading to this accident. Further, the authors reveal how these relationships were constructed historically. This book provides a case analysis on the Fukushima disaster in political, societal, economic and cultural dimensions. In addition, analyses for historically grown relationships between different societal spheres mouthing into disasters are presented using examples of the Minamata disease (Mercury pollution), Itai-Itai Disease (Cadmium pollution), BSE, and GMOs. With this book, Yuko Fujigaki achieves to connect local and cultural peculiarities with generalized scientific information and practices in a coherent, logical fashion to a comprehensive volume on a very actual topic of global significance. In light of a globally increasing energy gap, this book has a distinct global relevance, providing an honest account on different triggers mouthing

into the nuclear disaster. This book not only gives a scientific account. It also can also contribute to prevent future disasters starting from similar vectors.

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.

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

Rebuilding Fukushima Mitsuo Yamakawa, Daisaku Yamamoto, 2017-01-20 Five years after the one of the worst nuclear accidents in history, Fukushima now only occasionally headlines national and international media. However, the disaster is far from over, as evidenced by a hundred thousand people from Fukushima still in the state of evacuation, rising levels of radiation in streams and rivers, and failing attempts to control the leakage of radioactive materials at the Fukushima Daiichi Nuclear Power Plant. Despite these dismal conditions, efforts to recover and rebuild livelihoods in the afflicted regions of Fukushima did start immediately after the outset of the accident. Rebuilding Fukushima gives an account of how citizens, local governments, and businesses responded to and coped with the crisis of Fukushima. It addresses principles to guide reconstruction and international policy environments in which the current disaster is situated. It explores how reconstruction is articulated and experienced at different spatial scales, ranging from individuals to communities and municipalities, and details recovery efforts, achievements, and challenges in the realms of public transportation, agriculture and food production, manufacturing industries, retail sectors, and renewableenergy industries. This book also critically investigates the nature of the current reconstruction policy schemes, and seeks to articulate what may be required in order to achieve more sustainable and equitable (re)development in afflicted regions and other nuclear host regions. Drawing

on extensive fieldwork and local surveys, this volume is one of the first books in English that captures the knowledge and insights of native Japanese social scientists who dealt with the complexities of nuclear disaster on a day-to-day basis. It will be of great interest to students and scholars of disaster-management studies and nuclear policy.

Japan's Total Empire Louise Young,1998 At the heart of the empire Japan won and then lost in the Pacific War was Manchukuo, a puppet state created in Northeast China in 1932. Not unlike India for the British, Manchukuo was the crucible and symbol of empire for the Japanese. In this book, the first social and cultural history of Japan's construction of Manchuria, Louise Young studies how people at home imagined, experienced, and built the empire that so threatened the world.

A Study of the Fukushima Daiichi Nuclear Accident Process Michio Ishikawa, 2015-08-12 Written by an expert in the field, this book is perfect for those who would like to know what happened at the Fukushima Daiichi Nuclear Power Plant, Part 1 of the book studies how core melts occurred in Fukushima Daiichi units 1, 2, and 3, respectively, based on evidence from the Three-Mile Island core melt accident and fuel behavior experiments performed in the 1970s under the cooperation between the United States, Germany, and Japan. This information explains the accident processes without contradicting data from Fukushima, which was published in the TEPCO report. The hydrogen explosions in units 1, 3, and 4 are also explained logically in conjunction with the above core melt process. Part 2 clarifies how the background radiation level of the site doubled: The first rise was just a leak from small openings in units 1 and 3 associated with fire-pump connection work. The second rise led to direct radioactive material release from unit 2. Evacuation dose adequacy

and its timing are discussed with reference to the accident process, and the necessity for embankments surrounding nuclear power plants to increase protection against natural disasters is also discussed. New proposals for safety design and emergency preparedness are suggested based on lessons learned from the accident as well as from new experiences. Finally, a concept for decommissioning the Fukushima site and a recovery plan are introduced.

Japan after 3/11 Pradyumna P. Karan, Unryu Suganuma, 2016-09-27 On March 11, 2011, an underwater earthquake off the Pacific coast of Tohoku, Japan, triggered one of the most devastating tsunamis of a generation. The aftermath was overwhelming: communities were reduced to rubble, thousands of people were missing or dead, and relief organizations struggled to reach affected areas to provide aid for survivors and victims of radiation from compromised nuclear reactors. In Japan after 3/11, editors Pradyumna P. Karan and Unryu Suganuma assemble geographers, economists, humanists, and scientists to consider the complex economic, physical, and social impacts of this heartbreaking disaster. Historical geographers place the events of March 2011 in context, while other contributors assess the damage and recommend strategies for the long process of reclamation and rebuilding. The book also includes interviews with victims that explore the social implications of radioactive contamination and invite comparisons to the discrimination faced by survivors of the Hiroshima and Nagasaki bombings. Balancing the natural and social sciences, this timely volume offers not only a model of interdisciplinary research for scholars but also an invaluable guide to the planning and implementation of reconstruction.

Radiation Monitoring and Dose Estimation of the Fukushima Nuclear Accident Sentaro

Takahashi,2014-02-07 This book provides comprehensive research findings related to the environmental monitoring of radiation, levels of radioactive nuclides in various environments and dose estimation in residents after the Fukushima nuclear power plant accident caused severe environmental contamination with radioactive nuclides. At the beginning of the book, a technical review written by a leading researcher of nuclear reactor technology explains what happened at the power plant. The review is followed by a commentary from a former member of the International Commission on Radiological Protection, providing the reader with easily understandable information about the concept of radiation dosage. In the main part of the book, a series of scientific reports presents valuable data on the radiation surveys of the environment, environmental radioactivity, transfer models and parameters of radioactive nuclides and dose assessment among residents. These reports present a wide range of findings from the research carried out in a variety of activities by large governmental organizations as well as by small private groups and individuals. The reader thus will find a large collection of valuable and interesting data related to the environmental contamination by radioactive nuclides after the Fukushima accident. Although earlier reports on this issue have been made public, this book is the only publication to fully depict the actual situation by providing comprehensive data obtained by diverse organizations and individuals.

Agricultural Implications of the Fukushima Nuclear Accident Tomoko M. Nakanishi,Keitaro Tanoi,2013-03-15 Following the Fukushima nuclear accident, a large volume of monitoring data has been collected about the soil, air, dust, and seawater, along with data about an immense number of foods supplied to the market. Little is known, however, about the effect of radioactive fallout on agriculture, information about which is vital. Although more than 80% of the damaged area is related to agriculture, in situ information specifically for agriculture is scarce. This book provides data about the actual movement and accumulation of radioactivity in the ecological system—for example, whether debris deposited on mountains can be a cause of secondary contamination, under what conditions plants accumulate radioactive cesium in their edible parts, and how radioactivity is transferred from hay to milk. Because agriculture is so closely related to nature, many specialists with different areas of expertise must be involved in answering these questions. In the case of rice, researchers in rice cultivation as well as in soil, hydrology, and radioactivity measurement are working together to reveal the paths or accumulation of radioactivity in the field. For this purpose, the Graduate School of Agricultural and Life Sciences of The University of Tokyo has diverse facilities available throughout Japan, including farmlands, forests, and meadowlands. Many academic staff members have formed groups to conduct on-site research, with more than 40 volunteers participating. This book presents the data collected from the only project being systematically carried out across Japan after the Fukushima accident.

The Emergence of Modern Japan Janet Hunter,2014-06-06 The main emphasis of this book is upon political, social and economic developments, as conditioned by Japan's interaction with the outside world, the advance of industrialisation and the emergence of the Japanese nation state. Unlike previous textbooks on the history of modern Japan, Janet Hunter's book adopts a thematic approach which makes the period much more accessible for readers who wish to pursue their particular interests throughout the period. Moreover, it will also establish a greater awareness of the cultural and institutional continuities which are crucial to any proper understanding of modern Japan.

Health Effects of the Fukushima Nuclear Disaster Kenji Kamiya, Hitoshi Ohto, Masaharu Maeda, 2022-05-06 Health Effects of the Fukushima Nuclear Disaster provides a multidisciplinary retrospective on the health consequences on the population the first decade after the Fukushima nuclear disaster. Sections 1 and 2 of the book begins with an introduction and an overview of the developments surrounding the Fukushima accident. Section 3 discusses topics such as the physical health impact of radiation exposure as well as diseases that resulted from long-term evacuation. Section 4 examines the psychological factors and the social impact of the disaster and how their combined influence affected the physical and mental wellness of the population. The book concludes with Section 5 which covers the mitigation strategy for treatment and care of psychological health issues resulting from the disaster. The book contains expert contributions from those who have first-hand experience in the recovery efforts and are still actively researching the impact of the disaster. Health Effects of the Fukushima Nuclear Disaster provides readers with a coherent, multi-dimensional narrative about the physical, psychosocial, and psychological aspects of the decade-long aftermath of the Fukushima nuclear disaster. Provides information based on evidence obtained through scientific methods such as longterm epidemiological surveys and case studies Examines the indirect health impact, especially psychosocial effects, caused by technological disasters like nuclear accidents Includes contributions from experts in the field who participated in the recovery efforts and are currently

researching the health impact of the Fukushima disaster

Fukushima Nuclear Accident Shizuyo Sutou, 2015 The magnitude 9.0 Great East Japan Earthquake occurred on March 11, 2011, claiming over 20,000 lives. It crippled the Fukushima Daiichi Nuclear Power Plant, whose hydrogen-air explosions contaminated wide areas around Fukushima with radionuclides. The number of evacuees initially totaled 328,903, but has been reduced to 263,392 as of February 13, 2014. More than half of the evacuees (132,500) consist of Fukushima residents, and 67% of whom have experienced mental or physical disorders. Indeed, refugee life is so difficult that many Fukushima families have been affected by suicide, divorce, separation of family members, migration and settlement to other places, mental illness, etc. The difficulty is caused by the fear of low-dose radiation induced by the LNT model which claims that radiation cancer risk is linearly proportional to dose without any threshold. Careful scrutiny of the model, however, clearly indicates that the linearity is invalid; low dose radiation is not hazardous, but is even beneficial or hormetic because of the adaptive response to radiation. This book provides ample evidence to negate the LNT model. This book is primarily compiled to get rid of the spell of the LNT model and release Fukushima people from undue torture. The book would also be useful to the public in general who have CT scans and have concerns. In addition, the people who use radiation world-wide such as nuclear power plant workers, radiation researchers, radiologists, and X-ray operators would be relieved to learn from reading this book that the alleged risk of low-dose radiation is illusionary and that the low-dose radiation is even beneficial. Policy makers of nuclear energy and radiation who are working for governmental and/or regulatory agencies are also recommended to read this

book. Severe guidelines from a safety standpoint sometimes entrap people into a fear-stricken situation rather than save them, as no one was killed by radiation directly, but more than 1,000 people have been killed by the fear of radiation secondarily in Fukushima. By the same token, this book is recommended to civil activists and journalists who emphasise dangers of low-dose radiation and raise fear of low-dose radiation. It is the time to shed new scientific light on the outdated LNT model.

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

Rebuilding Sustainable Communities after Disasters in China, Japan and Beyond Adenrele Awotona, 2014-06-02 This volume examines lessons learned in reducing the impact of disasters on communities in China, Japan and other countries world-wide. Asia is the most disaster-prone continent. The 2012 data on natural disasters in 28 Asian countries, released by the United Nations Office for Disaster Risk Reduction and the Belgian-based Centre for Research on the Epidemiology of Disasters on December 11th, 2012 showed that, from 1950 to 2011, nine out of ten people affected by disasters globally were in Asia; that of the top five disasters that created the most damage in 2012, three were in China; that China led the list of most disasters in 2012; and, that China was the only "multihazard"-prone country. Similarly, the March 2011 Tohoku earthquake was the greatest known earthquake ever to have hit Japan and one of the five strongest ever recorded earthquakes in the world since 1900. Subsequently, the Center for Rebuilding Sustainable Communities after Disasters at the University of Massachusetts Boston organized a conference in November 2012 to survey the best practices in post-disaster rebuilding efforts in China and Japan. This edited book consists of selected papers from the proceedings of that event and previously invited contributions from leading scholars in post-disaster rebuilding in China, Japan and Namibia.

<u>Animals and the Fukushima Nuclear Disaster</u> Mayumi Itoh,2018-03-16 This book is the first comprehensive, indepth English language study of the animals that were left behind in the exclusion zone in the wake of the nuclear meltdown of three of the four reactors at the Fukushima Daiichi Nuclear Power Station in March 2011, triggered by the Great East Japan Earthquake of magnitude 9.0.The Japanese government designated an area of 20-kilometer radius from the nuclear power station as an exclusion zone and evacuated one hundred thousand residents, but left companion animals and livestock animals behind in the radioactive area. Consequently, about 90 percent of the animals in the exclusion zone died. This book juxtaposes policies of the Japanese government toward the animals in Fukushima with the actions of grassroots volunteer animal rescue groups that filled the void of the government.

Living in a Nuclear World Bernadette Bensaude-Vincent, Soraya Boudia, Kyoko Sato, 2022-03-10 The Fukushima disaster invites us to look back and probe how nuclear technology has shaped the world we live in, and how we have come to live with it. Since the first nuclear detonation (Trinity test) and the bombings of Hiroshima and Nagasaki, all in 1945, nuclear technology has profoundly affected world history and geopolitics, as well as our daily life and natural world. It has always been an instrument for national security, a marker of national sovereignty, a site of technological innovation and a promise of energy abundance. It has also introduced permanent pollution and the age of the Anthropocene. This volume presents a new perspective on nuclear history and politics by focusing on four interconnected themes-violence and survival; control and containment; normalizing through denial and presumptions; memories and futures-and exploring their relationships and consequences. It proposes an original reflection on nuclear technology from a long-term, comparative and transnational perspective. It brings together contributions from researchers from different disciplines (anthropology,

history, STS) and countries (US, France, Japan) on a variety of local, national and transnational subjects. Finally, this book offers an important and valuable insight into other global and Anthropocene challenges such as climate change.

Nuclear Magnetic Resonance Spectroscopy Frank A. Bovey, Peter A. Mirau, H. S. Gutowsky, 1988-11-01 Nuclear Magnetic Resonance Spectroscopy, Second Edition focuses on two-dimensional nuclear magnetic resonance (NMR) spectroscopy, high resolution NMR of solids, water suppression, multiple quantum spectroscopy, and NMR imaging. The selection first takes a look at the fundamental principles and experimental methods. Discussions focus on the NMR phenomenon, dipolar broadening and spin-spin relaxation, nuclear electric guadrupole relaxation, saturation, magnetic shielding and chemical shift, magnetic field, transitions between the nuclear energy levels, and resolution and sensitivity considerations. The manuscript then ponders on chemical shift, coupling of nuclear spins, and nuclear relaxation and chemical rate processes. Topics include spin lattice relaxation, spin-spin relaxation, spin decoupling and associated techniques, and description and analysis of spin systems. The text examines two-dimensional NMR spectroscopy, macromolecules, and NMR of solids, including magic angle spinning, cross polarization, proton dipolar broadening, biopolymers, and chain motion in macromolecules. The selection is a valuable source of data for readers interested in nuclear magnetic resonance spectroscopy.

Five Years After Keiichi Tsunekawa,2016-12 ?Five years after the Triple Disaster--the earthquake, tsunami, and the nuclear disaster at the Fukushima Daiichi power plant--the national government's response is often criticized. However, despite the magnitude of the disaster, the recovery and reconstruction have been rapid. If it is true that the Japanese government has failed in the response to the nuclear accident but succeeded in the recovery and reconstruction from the earthquake and tsunami, it must be acknowledged that both failure and success come out of the same characteristics of the same system. Starting from this premise, this anthology attempts to conduct a reassessment of the national response to the Great East Japan Earthquake and its aftermath from the perspective of the social sciences, ranging from politics, economics, community sociology, public administration, and communication studies. It takes care to distinguish assessment of short-term responses to the disaster from the necessity for long-term changes in society. How has the recovery process proceeded in such fields as reconstruction of public infrastructure, housing reconstruction, support for evacuees, reopening schools, and debris disposal? Was TEPCO's precaution and postdisaster response inappropriate to the accident? What were the critical issues to be discussed in the crisis communication of national and local government? Has the Fukushima Daiichi nuclear accident provided momentum to bring about revolutionary changes to nuclear power plant safety in Japan and Japan's energy policy? This collaboration attempts to provide perspective in a time of turmoil.

The book delves into Fukushima311hd 141.

Fukushima311hd 141 is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Fukushima311hd 141, encompassing both the fundamentals and more intricate discussions.

- 1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Fukushima311hd 141
 - Chapter 2: Essential Elements of Fukushima311hd 141
 - Chapter 3: Fukushima311hd 141 in Everyday Life
 - $\circ\,$ Chapter 4: Fukushima311hd 141 in Specific Contexts
 - \circ Chapter 5: Conclusion
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- In chapter 2, the author will delve into the foundational concepts of Fukushima311hd 141. This chapter will elucidate the essential principles that must be understood to grasp Fukushima311hd 141 in its entirety.
- In chapter 3, this book will examine the practical applications of Fukushima311hd 141 in daily life. The third chapter will showcase real-world examples of how Fukushima311hd 141 can be effectively utilized in everyday scenarios.
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- 6. In chapter 5, this book will draw a conclusion about Fukushima311hd 141. This chapter will summarize the key points that have been discussed throughout the book. The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Fukushima311hd 141.

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Introduction

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