

Katsuhiro Kamae *Editor*

# Earthquakes, Tsunamis and Nuclear Risks

Prediction and Assessment Beyond the  
Fukushima Accident



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# Earthquakes Tsunamis And Nuclear Risks Prediction And Assessment Beyond The Fukushima Accident

**Jun Shigemura, Rethy Kieth Chhem**



## **Earthquakes Tsunamis And Nuclear Risks Prediction And Assessment Beyond The Fukushima Accident:**

*Earthquakes, Tsunamis and Nuclear Risks* Katsuhiko Kamae, 2016-01-22 This book covers seismic probabilistic risk assessment S PRA and related studies which have become more important to increase the safety of nuclear facilities against earthquakes and tsunamis in the face of the many uncertainties after the Fukushima accident The topics are 1 Active faults and active tectonics important for seismic hazard assessment of nuclear facilities 2 Seismic source modeling and simulation and modeling techniques indispensable for strong ground motion prediction and 3 PRA with external hazard and risk communication The Fukushima accident has showed us the limitations of the deterministic evaluation approach to external events an earthquake and tsunami in which there are many uncertainties Furthermore public anxiety regarding nuclear safety because of an unexpected threat caused by an earthquake or tsunami is growing The current policy on the estimation of the design basis of ground motion as well as tsunami height still has not been improved following the Fukushima accident In particular the risk concept in a nuclear system regarding seismic motion and a tsunami beyond the design basis is indispensable Therefore research and development for PRA enhancing nuclear safety are being actively pursued not only in Japan but also worldwide This book provides an opportunity for readers to consider the future direction of nuclear safety vis vis natural disasters *Resilience: A New Paradigm of Nuclear Safety* Joonhong Ahn, Franck Guarnieri, Kazuo

Furuta, 2017-08-15 This book is published open access under a CC BY 4.0 license This book summarizes presentations and discussions from the two day international workshop held at UC Berkeley in March 2015 and derives questions to be addressed in multi disciplinary research toward a new paradigm of nuclear safety The consequences of the Fukushima Daiichi nuclear accident in March 2011 have fuelled the debate on nuclear safety while there were no casualties due to radiation there was substantial damage to local communities The lack of common understanding of the basics of environmental and radiological sciences has made it difficult for stakeholders to develop effective strategies to accelerate recovery and this is compounded by a lack of effective decision making due to the eroded public trust in the government and operators Recognizing that making a society resilient and achieving higher levels of safety relies on public participation in and feedback on decision making the book focuses on risk perception and mitigation in its discussion of the development of resilient communities

*Encyclopedia of Environmental Health*, 2019-08-22 *Encyclopedia of Environmental Health* Second Edition Six Volume Set presents the newest release in this fundamental reference that updates and broadens the umbrella of environmental health especially social and environmental health for its readers There is ongoing revolution in governance policies and intervention strategies aimed at evolving changes in health disparities disease burden trans boundary transport and health hazards This new edition reflects these realities mapping new directions in the field that include how to minimize threats and develop new scientific paradigms that address emerging local national and global environmental concerns Represents a one stop resource for scientifically reliable information on environmental health Fills a critical gap with

information on one of the most rapidly growing scientific fields of our time Provides comparative approaches to environmental health practice and research in different countries and regions of the world Covers issues behind specific questions and describes the best available scientific methods for environmental risk assessment      **Structural Resilience**

**in Sewer Reconstruction** Zihai Shi, Shizuo Watanabe, Kenichi Ogawa, Hajime Kubo, 2017-08-17 Structural Resilience in Sewer Reconstruction From Theory to Practice provides engineers with a balanced mixture of theory and practice Divided into three parts structural resilience is introduced along with different methods and theories that are needed to assess sewerage networks The authors begin with a general overview of resilience and lessons learned then present a comprehensive review of resilience theories in key fields of study The book also introduces major analysis techniques and computational methods for resilience assessment also highlighting sewer reconstruction projects carried out in Tokyo including the reconstruction and development process for construction methods renovation materials and technical inventions The structural resilience considerations incorporated in various stages of development are discussed in detail Computational examples for assessing structural resilience in the renovated sewer system in Tokyo are also shown with final chapters summarizing structural resilience theories and areas for future study Provides a comprehensive review of resilience theories and practices in key fields of study Presents a detailed study of the structural resilience approach to sewer reconstruction in Tokyo also including case studies of overseas projects Includes a systematic presentation of structural resilience theories Covers rich case studies on various issues in sewerage systems for qualitative and quantitative resilience evaluation      **Nutritional Care of the Patient with Gastrointestinal Disease** Alan L Buchman, 2015-08-06 This evidence

based book serves as a clinical manual as well as a reference guide for the diagnosis and management of common nutritional issues in relation to gastrointestinal disease Chapters cover nutrition assessment macro and micronutrient absorption malabsorption food allergies prebiotics and dietary fiber probiotics and intestinal microflora nutrition and GI cancer nutritional management of reflux nutrition in IBS and IBD nutrition in acute and chronic pancreatitis enteral nutrition parenteral nutrition medical and endoscopic therapy of obesity surgical therapy of obesity pharmacologic nutrition and nutritional counseling      **Nuclear Energy Risk Management** United States. Congress. House. Committee on Science,

Space, and Technology (2011). Subcommittee on Investigations and Oversight, 2011      Correlation Between Human Factors and the Prevention of Disasters Wilhelm G. Coldewey, Dieter W.G. Reimer, Dmytro V. Rudakov, 2012-05-15 The nuclear disaster at the Chernobyl power plant devastating floods landslides droughts the erosion of tailings dams and desertification are just some of the natural and manmade disasters which have afflicted the Ukraine and neighboring countries in recent years It is therefore entirely appropriate that the NATO Advanced Research Workshop ARW Correlation between Human Factors and the Prevention of Catastrophes was held in Dnipropetrovsk Ukraine in September 2011 This book presents the proceedings of the ARW which analyzed accumulated European theoretical knowledge and practical experience in the field of

disaster prevention addressing a wide range of correlations between human factors and the prevention of catastrophes Subjects covered include land use planning and management procedures risk assessment in emergency situations control of polluted water socio economic impacts from desertification health impacts arising from nuclear facilities flooding and tailings dam accidents risk management systems and measures and the protection of water resources The presentations reflected the extensive experience of workshop participants and will be of great interest especially to countries that are developing their legal frameworks in civil emergency planning most particularly those who are aligning to EU directives and other international standards

### **Parameter Estimation and Uncertainty Quantification in Water Resources Modeling**

Philippe Renard, Frederick Delay, Daniel M. Tartakovsky, Velimir V. Vesselinov, 2020-04-22 Numerical models of flow and transport processes are heavily employed in the fields of surface soil and groundwater hydrology They are used to interpret field observations analyze complex and coupled processes or to support decision making related to large societal issues such as the water energy nexus or sustainable water management and food production Parameter estimation and uncertainty quantification are two key features of modern science based predictions When applied to water resources these tasks must cope with many degrees of freedom and large datasets Both are challenging and require novel theoretical and computational approaches to handle complex models with large number of unknown parameters

### **Fukushima**

David Lochbaum, Edwin Lyman, Susan Q. Stranahan, The Union of Concerned Scientists, 2015-02-10 A gripping suspenseful page turner Kirkus Reviews with a fast paced detailed narrative that moves like a thriller International Business Times Fukushima teams two leading experts from the Union of Concerned Scientists David Lochbaum and Edwin Lyman with award winning journalist Susan Q Stranahan to give us the first definitive account of the 2011 disaster that led to the worst nuclear catastrophe since Chernobyl Four years have passed since the day the world watched in horror as an earthquake large enough to shift the Earth's axis by several inches sent a massive tsunami toward the Japanese coast and Fukushima Daiichi nuclear power plant causing the reactors safety systems to fail and explosions to reduce concrete and steel buildings to rubble Even as the consequences of the 2011 disaster continue to exact their terrible price on the people of Japan and on the world Fukushima addresses the grim questions at the heart of the nuclear debate could a similar catastrophe happen again and most important of all how can such a crisis be averted

### ***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

**Learning from Megadisasters** Federica Raghieri, Mikio Ishiwatari, 2014-06-26 The successes of Japan's disaster risk management DRM system as well as the ways in which that system could be improved are reflected in the lessons drawn from the Great East Japan Earthquake GEJE and presented in the initial reports from the Learning from Megadisasters project The GEJE was the first disaster ever recorded that included an earthquake a tsunami a nuclear power plant accident a power supply failure and a large scale disruption of supply chains Extreme disasters underscore the need for a holistic approach to DRM Single sector development planning cannot address the complexity of problems posed by natural hazards let alone megadisasters nor can such planning build resilience to threats Faced with complex risks Japan chose to build resilience by investing in preventative structural and nonstructural measures nurturing a strong culture of knowledge and learning from past disasters engaging in wise DRM regulation legislation and enforcement and promoting cooperation among multiple stakeholders between government agencies and ministries between the private sector and the government and among multiple levels of governance from local to national to international The book consolidates a set of 36 Knowledge Notes research results of a joint study undertaken by the Government of Japan and the World Bank These notes highlight key lessons learned in seven DRM thematic clusters structural measures nonstructural measures emergency response reconstruction planning hazard and risk information and decision making the economics of disaster risk risk management and risk financing and recovery and relocation Aimed at sharing Japanese cutting edge knowledge with practitioners and decision makers this book provides valuable guidance to other disaster prone countries for mainstreaming DRM in their development policies and weathering their own natural disasters

**The Fukushima Daiichi Nuclear Power Station Disaster** The Independent Investigation on the Fukushima Nuclear Accident, 2014-03-05 When the Nuclear Safety Commission in Japan reviewed safety design guidelines for nuclear plants in 1990 the regulatory agency explicitly ruled out the need to consider prolonged AC power loss In other words nothing like the catastrophe at the Fukushima Daiichi Nuclear Power Station was possible no tsunami of 45 feet could swamp a nuclear power station and knock out its emergency systems No blackout could last for days No triple meltdown could occur Nothing like this could ever happen Until it did over the course of a week in March 2011 In this volume and in gripping detail the Independent Investigation Commission on the Fukushima Nuclear Accident a civilian led group presents a thorough and powerful account of what happened within hours and days after this nuclear disaster the second worst in history It documents the findings of a working group of more than thirty people including natural scientists and engineers social scientists and researchers business people lawyers and journalists who researched this crisis involving multiple simultaneous

dangers They conducted over 300 investigative interviews to collect testimony from relevant individuals The responsibility of this committee was to act as an external ombudsman summarizing its conclusions in the form of an original report published in Japanese in February 2012 This has now been substantially rewritten and revised for this English language edition The work reveals the truth behind the tragic saga of the multiple catastrophic accidents at the Fukushima Daiichi Nuclear Power Station It serves as a valuable and essential historical reference which will help to inform and guide future nuclear safety and policy in both Japan and internationally

**Lessons Learned from the Fukushima Nuclear Accident for Improving Safety and Security of U.S. Nuclear Plants** National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, Committee on Lessons Learned from the Fukushima Nuclear Accident for Improving Safety and Security of U.S. Nuclear Plants, 2016-05-06 The U S Congress asked the National Academy of Sciences to conduct a technical study on lessons learned from the Fukushima Daiichi nuclear accident for improving safety and security of commercial nuclear power plants in the United States This study was carried out in two phases Phase 1 issued in 2014 focused on the causes of the Fukushima Daiichi accident and safety related lessons learned for improving nuclear plant systems operations and regulations exclusive of spent fuel storage This Phase 2 report focuses on three issues 1 lessons learned from the accident for nuclear plant security 2 lessons learned for spent fuel storage and 3 reevaluation of conclusions from previous Academies studies on spent fuel storage

*Mental Health and Social Issues Following a Nuclear Accident* Jun Shigemura, Rethy Kieth Chhem, 2015-11-25 This book focuses on mental health issues arising in the wake of the Fukushima nuclear disaster Three years after the 11 March 2011 Great East Japan Earthquake tsunamis and Fukushima Daiichi nuclear accident roughly 130 000 individuals continue to face enormous burdens as a result of mandatory evacuation Many evacuees still live in temporary housing and returning home remains a distant dream as they wait for the decontamination of the danger zone to be completed However the plant recovery process is still evolving and the complete cleanup will take decades Beyond all of these hardships many evacuees are also mourning the loss of their loved ones The compound disaster with its many uncertainties poses and will continue to pose serious emotional and social challenges People affected by the nuclear disaster have been facing serious psychological challenges from ongoing fear of radiation exposure Furthermore there is continuing debate between various stakeholders on the options for disaster responses This situation in turn produces adverse public responses such as discrimination and stigmatization of the evacuees and scapegoating of the authorities and nuclear plant workers

*Mental Health and Social Issues Following a Nuclear Accident* addresses these issues and their impacts pursuing both evidence based and narrative based approaches It also contrasts the Fukushima findings with those of other nuclear disasters namely Three Mile Island and Chernobyl

*Beyond Fukushima* Kōichi Hasegawa, 2015 It finally dawned on us The government was unreliable Politicians and bureaucrats were unreliable The media was untrustworthy The brutal reality hit us that we had to protect ourselves otherwise bury our heads in the sand

and give up altogether Written in the immediate aftermath of the Great East Japan Earthquake and accident at the Fukushima Daiichi Nuclear Power Station of March 2011 Koichi Hasegawa presents a compelling account of the events of 3 11 against the backdrop of the history and geopolitics of the nuclear industry worldwide He argues passionately for denuclearization and is highly critical of the Japanese Government in terms of its response to the Fukushima nuclear disaster Back cover *Health Risk Assessment from the Nuclear Accident After the 2011 Great East Japan Earthquake and Tsunami*, 2013 **Japan's Triple Disaster** Natalia Novikova, Julia Gerster, Manuela G. Hartwig, 2023-06-09 The authors of this volume discuss questions of disaster and justice from various interdisciplinary vantage points including public policy science and technology studies law gender sociology and psychology social and cultural anthropology town planning and tourism The term natural disasters is a misnomer cataclysmic natural events that impact humans can often be anticipated and their consequences should be prevented the failure to do so is a failure of politics policy and risk planning Presenting research on more than a decade after the Great East Japan Earthquake the chapters highlight not only the manifold challenges in the direct disaster response and policymaking but also the difficulties of just long term recovery Arguing for just distribution recognition and participation this volume provides a diversity of perspectives on these issues as experienced after the 2011 disasters through detailed and nuanced analyses presented by early career researchers and senior academics coming from various countries and continents of the world The insights of this volume galvanise the discussion of disaster governance and highlight the variety of disaster in justices and the ways disasters force people to contest and reimagine their relationships with their countries neighborhoods families and friends A valuable read for scholars and students researching issues related to mass emergencies justice theory and civil activism **Learning from a Disaster** Scott D. Sagan, Edward D. Blandford, 2016-04-06 This book the culmination of a truly collaborative international and highly interdisciplinary effort brings together Japanese and American political scientists nuclear engineers historians and physicists to examine the Fukushima accident from a new and broad perspective It explains the complex interactions between nuclear safety risks the causes and consequences of accidents and nuclear security risks the causes and consequences of sabotage or terrorist attacks exposing the possible vulnerabilities all countries may have if they fail to learn from this accident The book further analyzes the lessons of Fukushima in comparative perspective focusing on the politics of safety and emergency preparedness It first compares the different policies and procedures adopted by various nuclear facilities in Japan and then discusses the lessons learned and not learned after major nuclear accidents and incidents in other countries in the past The book's editors conclude that learning lessons across nations has proven to be very difficult and they propose new policies to improve global learning after nuclear accidents or attacks 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      **Aftermath** Yutaka Tsujinaka,Hiroaki Inatsugu,2018 Aftermath Fukushima and the 3 11 Earthquake is a comprehensive analysis of recovery and reconstruction following the triple disaster in Japan on March 11 2011 This collection addresses the question of why despite the relative success of network governance in brokering a response to the disaster and to reconstruction politics failed either to prepare for the disaster or to respond adequately to it In examining Japan s political system leading up to 3 11 Aftermath looks at the system of network governance that operated between various organizations and levels of government The book scrutinizes the political influence network that united politicians and the bureaucracy with the major corporations and created a system to promote nuclear power Through political policy economic and social analysis Aftermath aims to contribute to the development of mechanisms and structures to minimize the impact of disasters Series Japanese Society Series Subject Politics Governance Japanese Studies Nuclear Studies

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### **Introduction**

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