

Disaster Risk Reduction Cases From Urban Africa

This book is a compilation of recent developments in the field of ecosystem-based disaster risk reduction and climate change adaptation (Eco-DRR/CCA) globally. It provides further evidence that ecosystem-based approaches make economic sense, and showcases how research has progressively filled knowledge gaps about translating this concept into practice. It presents a number of methods, and tools that illustrate how Eco-DRR/CCA has been applied for various ecosystems and hazard contexts around the world. It also discusses how innovative institutional arrangements and policies are shaping the field of Eco-DRR/CCA. The book is of relevance to scientists, practitioners, policy-makers and students in the field of ecosystem management for disaster risk reduction and climate change adaptation.

This book focuses on exploring the linkages between natural disasters and sustainable development at the global, regional, and national levels. Disasters and development are closely related, yet the disciplinary silos prevail and there is little communication and cooperation between the disaster management, environment, and development communities. One catastrophic event, such as an earthquake, tsunami, or cyclone, can destroy infrastructure, people's lives and livelihoods, and set back development. Similarly, slow onset disasters—often associated with global climate change—pose threats to development, livelihoods, food security, and long-term sustainable development. This book is uniquely aimed at bridging the gaps between the environmental, development, and disaster management communities. It traces the evolution of concepts and practice and highlights the linkages between natural disasters and sustainable development in key sectors, including food security,

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health, and water. The book includes case studies from the field highlighting the complex issues that challenge sustainable development and disaster risk management in practice. It draws policy conclusions for the global community based on state-of-the-art knowledge from research and practice. The primary target groups for the book are researchers, including graduate students, in the fields of environment and sustainable development, geography, disaster risk reduction, and climate change studies. The second target group comprises practitioners and policymakers working in national and international organizations, the private sector, and civil society.

Natural disasters are increasingly affecting the world, taking lives unexpectedly and leaving many others injured and homeless. Moreover, disasters disrupt local, national and even global economies, instantly changing the direction of development. In the first half of 2011 alone, 108 natural disasters occurred, killing over 23 thousand people, affecting nearly 44 million others and causing more than 253 billion US dollars of economic damages (CRED 2011,1). Large urban settlements have become increasingly vulnerable to the impacts of natural disasters. The concentration of substandard infrastructure and housing, material assets, and inherent socio-economic inequalities increase vulnerability to disasters in large urban areas, especially in developing countries. The size, number, functions, and geographical distribution of large- and megacities create a special concern for disaster risk. Good urban management practices can be a powerful catalyst for reducing losses from natural disasters, while simultaneously helping to develop a sustainable environment. Yet, the existing situation indicates that sustainable planning and risk management measures are not taken into consideration or may not be put into practice for a variety of financial, political, and social reasons. This book argues

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that, on one hand, socio-economic disparities resulting from unsustainable urban development can increase vulnerability to natural hazards, and on the other hand, when paired with natural hazards this increased vulnerability can negatively affect urban areas, resulting in further inequality. This book will showcase this argument with theoretical reviews and quantitative analyses on the interplay between sustainable development and disaster vulnerability as well as an in-depth case study of the role of urban planning and risk management practices in creating the socio-economic and spatial vulnerabilities and predicted earthquake risk in the megacity of Istanbul.

The number, intensity, and impact of diverse forms of 'natural' and 'human-made' disasters are increasing. In response, the international community has shifted its primary focus away from disaster response to prevention and improved preparedness. The current globally agreed upon roadmap is the ambitious Sendai Framework for Disaster Risk Reduction 2015–2030, central to which is the better understanding of disaster risk management and mitigation. Sendai also urges innovative implementation, especially multi-sectoral and multi-hazard coherence. Yet the law sector itself remains relatively under-developed, including a paucity of supporting 'DRR law' scholarship and minimal cross-sectoral engagement. Commonly, this is attributable to limited understanding by other sectors about law's dynamic potential as a tool of disaster risk mitigation, despite the availability of many risk-related norms across a broad spectrum of legal regimes. This unique, timely Handbook brings together global and multi-sector perspectives on one of the most pressing policy issues of our time.

Published with ProVention Consortium, UNDP and UN-Habitat 'This excellent book is essential reading for those concerned with urban risk and its reduction in Africa, the most rapidly

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urbanizing region of the world.' Professor Jo Beall, Development Studies Institute, London School of Economics 'At last a book that recognizes the impacts of disasters on Africa's 350 million urban dwellers, including the many disasters that get overlooked and go unrecorded. But also a book that, through careful case studies, shows what creates disaster risk and what local measures can be taken to address it.' David Satterthwaite, International Institute for Environment and Development (IIED). 'This innovative volume combines the latest conceptualisations of urban disaster risk and vulnerability with case studies from across the African continent on how existing and innovative information can inform efforts to address the problems. Coverage ranges from the major catastrophes of news headlines to small, everyday disasters with which poor urban residents have to cope in their survival strategies. Written by international authorities and local specialists, this extremely useful book should find a place in the hands of academics and practitioners alike.' Professor David Simon, Department of Geography, Royal Holloway, University of London This is a one-of-a-kind book packed with original research and offering an innovative way of thinking about the reduction of risk in rapidly urbanizing cities across the globe. It is a must-have for professionals, researchers and policy makers. The book addresses four inter-related themes critical for urban risk reduction: environment; livelihood; urban governance and the generation of urban risks. Its focus is on Africa, the most rapidly urbanizing world region, but it illustrates global processes. Part one reviews development, urbanization and disaster risk in Africa as a whole, identifies state-of-the-art practices and policies for building urban resilience and provides a tool kit for urban risk reduction. It also presents a powerful conceptual framework to analyse and compare disaster risk and resilience in different cities and communities. Part two presents detailed case studies

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from Algeria, Ghana, Senegal, Kenya, Tanzania and South Africa illustrating vulnerability to hazards ranging from earthquake to shack fire, environmental health hazards, traffic hazards and flooding. Part three looks to the future and outlines a vision for a safer urban Africa based on achieving gains in human security through inclusive governance and investment in the creative capacities of Africa's urban dwellers. With foreword by Anna Tibaijuka, Executive Director, UN-HABITAT

Understanding Disaster Risk: A Multidimensional Approach presents the first principle from the UNISDR Sendai Framework for Disaster Risk Reduction, 2015-2030. The framework includes a discussion of risk and resilience from both a theoretical and governance perspective in light of ideas that are shaping our common future. In addition, it presents innovative tools and best practices in reducing risk and building resilience. Combining the applications of social, financial, technological, design, engineering and nature-based approaches, the volume addresses rising global priorities and focuses on strengthening the global understanding of vulnerability, displaced communities, cultural heritages and cultural identity. Readers will gain a multifaceted understanding of disaster, addressing both historic and contemporary issues. Focusing on the various dimensions of disaster risk, the book details natural and social components of risk and the challenges posed to risk assessment models under the climate change paradigm. Addresses the current challenges in policy and practice for building resilience strategies Follows the global frameworks for disaster risk reduction and sustainability, specifically the UNISDR Sendai Framework for DRR, 2015-2030 Aids in understanding the natural and social components of risk in a diverse and globalized world Presents the challenges posed to risk assessment models under the climate change paradigm

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This open access edited volume critically examines a coherence building opportunity between Climate Change Adaptation, the Sustainable Development Goals and Disaster Risk Reduction agendas through presenting best practice approaches, and supporting Irish and international case studies. The Covid-19 pandemic has highlighted existing global inequalities and demonstrated the scope and scale of cascading socio-ecological impacts. The impacts of climate change on our global communities will likely dwarf the disruption brought on by the pandemic, and moreover, these impacts will be more diffuse and pervasive over a longer timeframe. This edited volume considers opportunities to address global challenges in the context of developing resilience as an integrated development continuum instead of through independent and siloed agendas.

This book provides a wide range of studies on methods of assessing natural disaster risks and reducing those risks in the context of land use. A major benefit of the book is that it presents extensive research and practices from interdisciplinary perspectives through case studies of land use management against various natural disasters. The natural hazards include earthquakes, tsunamis, floods, and other disasters, with case studies ranging from urban areas to areas with natural environments such as mountains, coasts, and river systems. By quantitative and qualitative analysis, this work illustrates how interactions between natural and human environments create natural disasters, and how disaster risks can be managed or reduced through methods related to land use. This book also covers a variety of challenges in land use management with sample cases from Asia as well as the United States and Europe. The main purpose is to provide greater insight into studies of natural disaster risks from the perspective of land use and the possibility of non-engineering methods to reduce those risks.

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This goal can be achieved through management of land use against various natural hazards in diverse environments.

The frequency of disasters in the world has been increasing every year. Disasters are the result of natural hazards that have social repercussions and impacts, especially on people living with poverty and marginalisation. Nepal is a socially diversified, multi-disaster-prone country, therefore the value and importance of disaster risk reduction (DRR) education is pivotal in reducing disaster vulnerability and losses. In the case of Nepal, the consequences of the 2015 earthquake and other recurrent small-scale disasters on the education system and communities suggest that attempts to support DRR education were largely insufficient, and unsuccessful in reducing social vulnerability and disaster risks. Using a sociological disciplinary framework, this thesis aims to understand DRR education provision and practices in school curricula in addressing the common disasters and the recovery as perceived and experienced by relevant stakeholders. This thesis presents the argument that education governance plays a crucial role in developing and implementing DRR education interventions while addressing social vulnerability and disaster risks. It focuses on how well the existing provisions and practices of DRR are supportive in raising individual and community resilience to natural disasters. This study is based on a case study

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approach, utilizing semi-structured interviews, focus groups and document analysis as methods of investigation and data collection. Three public schools from the Bhaktapur district were selected for the study. A thematic analysis method was used to analyse the data. Building on previous studies, a new approach to DRR education was developed which suggests that governance, participation, relevant and organised content, and effective delivery are the major components of planning and implementing effective DRR education provisions in addressing social vulnerability and disaster risks. This study explores the crucial role that accessibility and availability of relevant, contextualised DRR education play in addressing local disaster issues in a sustainable manner. This study also identifies the pluri-scalar nature of governance in education and other systems, and the need for collaborative actions between various actors for effective DRR interventions to address the social issues of disasters in the country. It also explores the need for proactive roles of schools and communities in implementing DRR policies and procedures and for capacity development interventions to sustain DRR education. These key findings and recommendations may well be applicable beyond Nepal, and may resonate with other developing and developed countries.

This book is a unique, transdisciplinary summary of the state of the art of disaster

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risk reduction (DRR) in Indonesia. It provides a comprehensive overview of disaster risk governance across all levels and multiple actors including diverse perspectives from practitioners and researchers on the challenges and progress of DRR in Indonesia. The book includes novel and emerging topics such as the role of culture, religion, psychology and the media in DRR. It is essential reading for students, researchers, and policy makers seeking to understand the nature and variety of environmental hazards and risk patterns affecting Indonesia.

Following the introduction, the book has four main parts of key discussions. Part I presents disaster risk governance from national to local level and its integration into development sectors, Part II focuses on the roles of different actors for DRR, Part III discusses emerging issues in DRR research and practice, and Part IV puts forward variety of methods and studies to measure hazards, risks and community resilience.

Disaster Risk Governance offers the first extensive engagement with disaster risk governance in the Caribbean and Sub-Saharan Africa. In the last decade and a half Kenya, Jamaica, Dominica, and Zanzibar have all suffered massive destruction from disasters caused by natural hazards. Despite the tremendous investments in disaster risk reduction (DRR), disasters have wiped out the developmental gains of these countries. In this book, Denise Thompson argues

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that disaster risk governance (DRG) as a practical and academic matter has not been given the attention it deserves, and as a result, this neglect has undermined the time, money and resources invested in DRR in developing countries since the late 1970s and early 1980s. Thompson proposes that properly conceptualizing DRG based on context will help to address some of the deficiencies.

Consequently, DRG needs to become a central focus, particularly for developing countries. Written with real-life implications for developing countries, Disaster Risk Governance is perfectly suited for practitioners and researchers in area studies, disaster risk reduction and disaster governance, as well as students of disaster studies.

Disasters undermine societal well-being, causing loss of lives and damage to social and economic infrastructures. Disaster resilience is central to achieving the 2030 Sustainable Development Goals, especially in regions where extreme inequality combines with the increasing frequency and intensity of natural disasters. Disaster risk reduction and resilience requires participation of wide array of stakeholders ranging from academicians to policy makers to disaster managers. Disaster Resilient Cities: Adaptation for Sustainable Development offers evidence-based, problem-solving techniques from social, natural, engineering and other disciplinary perspectives. It connects data, research,

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conceptual work with practical cases on disaster risk management, capturing the multi-sectoral aspects of disaster resilience, adaptation strategy and sustainability. The book links disaster risk management with sustainable development under a common umbrella, showing that effective disaster resilience strategies and practices lead to achieving broader sustainable development goals. Provides foundational knowledge on integrated disaster risk reduction and management to show how resilience and its associated concept such as adaptive and transformative strategies can foster sustainable development Brings together disaster risk reduction and resilience scientists, policy-makers and practitioners from different disciplines Case studies on disaster risk management from natural science, social science, engineering and other relevant disciplinary perspectives

This edited book investigates the interrelations of disaster impacts, resilience and security in an urban context. Urban as a term captures megacities, cities, and generally, human settlements, that are characterised by concentration of quantifiable and non-quantifiable subjects, objects and value attributions to them. The scope is to narrow down resilience from an all-encompassing concept to applied ways of scientifically attempting to 'measure' this type of disaster related resilience. 28 chapters in this book reflect opportunities and doubts of the

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disaster risk science community regarding this 'measurability'. Therefore, examples utilising both quantitative and qualitative approaches are juxtaposed. This book concentrates on features that are distinct characteristics of resilience, how they can be measured and in what sense they are different to vulnerability and risk parameters. Case studies in 11 countries either use a hypothetical pre-event estimation of resilience or are addressing a 'revealed resilience' evident and documented after an event. Such information can be helpful to identify benchmarks or margins of impact magnitudes and related recovery times, volumes and qualities of affected populations and infrastructure.

Indonesia's history of disasters, and particularly the Indian Ocean Tsunami of 2004, triggered numerous changes not only to Indonesian disaster management and its associated legislative frameworks, but also to its community-based initiatives. The citizens face many challenges from diverse, complex and evolving hazards, emanating from geological, terrestrial, hydro-meteorological hazards, and climate change. This book discusses several ways in which strategies utilizing environmental, livelihood, social, and cultural resources can be used to develop effective disaster risk reduction designed to sustain social, cultural and economic life in Indonesia. A key focus is understanding the capabilities, processes and relationships of everyday life, and developing them to ensure that

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disaster reduction strategies can be incorporated into mainstream community life in urban, rural, and island settings. The following topics are featured: disaster reduction and developing an Indonesian perspective; the adaptation by farmers in dealing with climate change; promoting adaptive capacity of coastal communities to climate change; community resilience to the Mount Merapi volcanic disaster; community vulnerability to health and water hazards in Semarang; the mobility and livelihood of small islands; the national climate change perspective into flood management practice; food security, carbon management and climate risk reduction; water management strategy for resilience; cultural heritage to increase community resilience; local wisdom and community resilience; cultural drivers of disaster risk reduction behavior and the case of Pulau Simeulue; rethinking resilience, culture and disasters; community disaster recovery after the 2010 Mount Merapi eruption; seizing opportunities for change towards sustainability during disaster recovery and the case of Aceh, Indonesia; and the overall disaster reduction in Indonesia and moving forward. The purpose of this text is to highlight the importance of strategies that encompass the local, regional, and national levels of analysis which seeks to ensure all stakeholders play important roles in the development and implementation of disaster risk reduction strategies. This book will serve as an

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outstanding resource for practitioners and academics to adopt an integrative approach to develop the functional beliefs, knowledge, relationships and actions that Indonesia and its citizens need to thrive and prosper in increasingly hazardous times.

The Hindu Kush Himalayan (HKH) region is highly vulnerable to earthquakes and water-induced disasters. This fragile mountain region is under tremendous stress from climate change and land-use degradation that has accelerated flash floods, river-line floods, erosion, and wet mass movements during the monsoon period and drought in the non-monsoon period. Against the backdrop of intensifying disasters and in the absence of a focused documentation of disaster risk reduction issues in the HKH region, this volume presents a comprehensive body of knowledge. The main purpose and objective of this publication is to connect existing data, research, conceptual work, and practical cases on risk, resilience, and risk reduction from the HKH region under a common analytical umbrella. The result is a contribution to advancing disaster resilience and risk reduction in the HKH region. The book will be of special interest to policy makers, donors, and researchers concerned with the disaster issues in the region.

There is a perennial gap between theory and practice, between academia and active professionals in the field of disaster management. This gap means that

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valuable lessons are not learned and people die or suffer as a result. This book opens a dialogue between theory and practice. It offers vital lessons to practitioners from scholarship on natural hazards, disaster risk management and reduction and developments studies, opening up new insights in accessible language with practical applications. It also offers to academics the insights of the enormous experience practitioners have accumulated, highlighting gaps in research and challenging assumptions and theories against the reality of experience. Disaster Management covers issues in all phases of the disaster cycle: preparedness, prevention, response and recovery. It also addresses cross-cutting issues including political, economic and social factors that influence differential vulnerability, and key areas of practice such as vulnerability mapping, early warning, infrastructure protection, emergency management, reconstruction, health care and education, and gender issues. The team of international authors combine their years of experience in research and the field to offer vital lessons for practitioners, academics and students alike.

This book presents a case study-based analysis of the consequences of external interventions, critically evaluating them from community perspectives. Communities – from rural to urban, and around the world – that are experiencing disasters and changes in climatic variables can perceive the associated risks and evaluate the impacts of interventions. Accordingly,

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community perspectives, including their perceptions, concerns, awareness, realizations, reactions and expectations, represent a valuable resource. The case-based analysis of impacts on communities can provide a 'means of learning' from the experiences of others, thus expanding professionals' knowledge base, especially regarding disaster mitigation and climate change adaptation practices in varied settings. This book offers valuable insights and lessons learned, in an effort to promote and guide innovative changes in the current planning, management and governance of human settlements, helping them face the future challenges of a changing environment.

Available Open Access under CC-BY-NC licence. Disasters are an increasingly common and complex combination of environmental, social and cultural factors. Yet existing response frameworks and emergency plans tend to homogenise affected populations as 'victims', overlooking the distinctive experience, capacities and skills of children and young people. Drawing on participatory research with more than 550 children internationally, this book argues for a radical transformation in children's roles and voices in disasters. It shows practitioners, policy-makers and researchers how more child-centred disaster management, that recognises children's capacity to enhance disaster resilience, actually benefits at-risk communities as a whole.

Science and Technology in Disaster Risk Reduction in Asia: Potentials and Challenges provides both a local and global perspective on how to implement the Sendai Framework for Disaster Risk Reduction. Topics demonstrate the advancement of scientific research as it applies to early warning systems, including identifying risk and the strengthening of infrastructure for different types of hazards. Through different major disasters, it has become

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evident that there must be a balance between hard and soft technology and physical, process and social solutions. This book demonstrates how this has been successfully implemented in Asia, and how these applications can apply on a global basis. Covers new research on the role of science in Disaster Risk Reduction and lessons learned when research has been applied Utilizes case studies to outline the broader lessons learned Focuses on the Sendai Framework, which was adopted in the Third UN World Conference in 2015

Climate change is increasingly of great concern to the world community. The earth has witnessed the buildup of greenhouse gases (GHG) in the atmosphere, changes in biodiversity, and more occurrences of natural disasters. Recently, scientists have begun to shift their emphasis away from curbing carbon dioxide emission to adapting to carbon dioxide emission. The increase in natural disasters around the world is unprecedented in earth's history and these disasters are often associated to climate changes. Many nations along the coastal lines are threatened by massive floods and tsunamis. Earthquakes are increasing in intensity and erosion and droughts are problems in many parts of the developing countries. This book is therefore to investigate ways to prepare and effectively manage these disasters and possibly reduce their impacts. The focus is on mitigation strategies and policies that will help to reduce the impacts of natural disasters. The book takes an in-depth look at climate change and its association to socio-economic development and cultures especially in vulnerable communities; and investigates how communities can develop resilience to disasters. A balanced and a multiple perspective approach to manage the risks associated with natural disasters is offered by engaging authors from the entire globe to proffer solutions.

This book is part of a six-volume series on Disaster Risk Reduction and Resilience. The series

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aims to fill in gaps in theory and practice in the Sendai Framework, and provides additional resources, methodologies and communication strategies to enhance the plan for action and targets proposed by the Sendai Framework. The series will appeal to a broad range of researchers, academics, students, policy makers and practitioners in engineering, environmental science and geography, geoscience, emergency management, finance, community adaptation, atmospheric science and information technology. This volume discusses how to measure and build disaster resilience at society's capacity, drawing upon individual, institutional and collective resources to cope with and adapt to the demands and challenges of natural disaster occurrences. The book will serve as a guide, outlining the key indicators of disaster resilience in urban and rural settings, and the resources and strategies needed to build resilient communities in accordance with the targets of the Sendai Framework. Readers will learn about multi-risk reduction approaches using computational methods, data mining techniques, and System Thinking at various scales, as well as institutional and infrastructure resilience strategies based on several case studies.

Case Studies in Disaster Mitigation and Prevention: A Volume in the Disaster and Emergency Management: Case Studies in Adaptation and Innovation series presents cases illustrating efforts to reduce human and material losses associated with disasters. This volume demonstrates that mitigation is an ongoing phase in which communities continually pursue long-term hazard resistance and reduction. Cases illustrate the importance of risk assessment in the development of mitigation strategies through hazard mapping and multi-hazard mitigation planning. Cases also illustrate approaches to reduction risk through structural and non-structural means, giving consideration to benefits or limitations of these strategies in

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different contexts. The contributions of different mitigation activities to disaster risk reduction efforts are examined using the Sendai Framework for Disaster Risk Reduction. Presents in-depth cases studies in disaster mitigation, one of the phases of disaster management Unites practice and research from multiple disciplines to highlight the complexity of disaster mitigation, including environmental and earth sciences, engineering, public health, geography, sociology, and anthropology Examines policy and ethical dilemmas faced by decision makers in disaster situations

The Routledge Handbook of Disaster Risk Reduction Including Climate Change Adaptation aims to provide an overview and critique of the current state of knowledge, policy, and practice, encouraging engagement, and reflection on bringing the two sectors together. This long-awaited and welcomed volume makes a compelling case that a common research agenda and a series of practical policies and policy recommendations can and should be put in place. Over 40 contributions explore DRR including CCA in five parts. The first part presents and interrogates much of the typical vocabulary seen in DRR including CCA, not only pointing out the useful and not-so-useful dimensions, but also providing alternatives and positive examples. The second part explains how to move forward creating and supporting positive crossovers and connections, while the third one explores some aspects of multi-dimensional approaches to knowing and understanding. The fourth part argues for a balanced approach to governance, taking both governmental and non-governmental governance, as well as different scales of governance, into consideration. The final part of the Handbook emphasises DRR including CCA as an investment, rather than a cost, and connects its further implementation with livelihoods of people around the world. This handbook highlights the connections amongst the

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processes of dealing with disasters and dealing with climate change. It demonstrates how little climate change brings which is new and emphasises the strengths of placing climate change within wider contexts in order to draw on all our strengths while overcoming limitations with specialities. It will prove to be a valuable guide for graduate and advanced undergraduate students, academics, policy makers, and practitioners with an interest in disaster risk reduction and climate change.

Disaster Risk Reduction for the Built Environment provides a multi-faceted introduction to how a wide range of risk reduction options can be mainstreamed into formal and informal construction decision making processes, so that Disaster Risk Reduction (DRR) can become part of the 'developmental DNA'. The contents highlight the positive roles that practitioners such as civil and structural engineers, urban planners and designers, and architects (to name just a few) can undertake to ensure that disaster risk is addressed when (re)developing the built environment. The book does not set out prescriptive ('context blind') solutions to complex problems because such solutions can invariably generate new problems. Instead it raises awareness, and in doing so, inspires a broad range of people to consider DRR in their work or everyday practices. This highly-illustrated text book provides a broad range of examples, case studies and thinking points that can help the reader to consider how DRR approaches might be adapted for differing contexts.

This book presents key lessons from community-based risk-reduction practices in Japan, a country that is often hit by disasters and that also has shown strong resilience in coping with those disasters. Japan has a strong governance system for disaster risk reduction. However, the Kobe earthquake of 1995 showed the importance of community involvement in disaster

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response as well as recovery. With several examples from different parts of Japan, the book elaborates on the importance of community-based risk reduction and the innovations required for sustaining some of the community approaches. The book has 13 chapters and is divided into three parts: (1) Evolution of community-based risk reduction in Japan; (2) Community-based risk-reduction issues; and (3) Case studies. The primary target groups for this book are students and researchers in the fields of environment, disaster risk reduction, and climate change studies. The book provides them with a good idea of the current research trends in the field and furnishes basic knowledge about these vital topics. Another target group comprises practitioners and policy makers, who will be able to apply the knowledge collected here to policy and decision-making.

South Asia represents a region highly prone to natural disasters. Disasters not only disrupt the normal life of the affected communities and the countries but also impede developmental efforts. By and large, the approach of the major stakeholders has been 'reactive' rather than 'proactive'. There is indeed, a dire need for concerted and well-planned efforts to achieve risk reduction through risk identification, and sharing and transfer of information. This edited volume explores how the risk of disasters can be reduced by structural and non-structural measures with detailed, comprehensive and participatory strategies. Twenty-seven contributors, both academicians and practitioners, investigate the challenges that the region faces and how changes can be effected at the community, society, government and non-government levels to foster a culture of preparedness. The overall focus is on risk reduction through prevention, preparedness, mitigation, response, recovery, rehabilitation and reconstruction. Some case studies from different settings dealing with various disasters have

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also been included. Since disaster risk reduction is an area of great concern and there is absolute dearth of literature addressing this issue with regard to South Asia, this volume will be of immense utility and interest to government departments, NGOs, insurance companies, universities, training institutions, professional associates, media, general public, and students pursuing courses in disaster management.

The prevalence of natural disasters in recent years has highlighted the importance of preparing adequately for disasters and dealing efficiently with their consequences. This book addresses how countries can enhance their resilience against natural disasters and move towards economic growth and sustainable development. Covering a wide range of issues, it shows how well thought-out measures can be applied to minimize the impacts of disasters in a variety of situations. Starting with the need for coping with a rapidly changing global environment, the book goes on to demonstrate ways to strengthen awareness of the effectiveness of preventive measures, including in the reconstruction phase. The book also covers the roles played by different actors as well as tools and technologies for improved disaster risk reduction. It focuses on a variety of case studies from across Asia, Africa and Latin America, drawing out lessons that can be applied internationally. This book will be of great interest to professionals in disaster management, including national governments, donors, communities/citizens, NGOs and private sector. It will also be a highly valuable resource for students and researchers in disaster management and policy, development studies and economics.

This book recognizes Mexico's effects and challenges in a natural disaster and offers empirical risk-reduction methods in critical cases. The proposals considered here include real and detailed analysis, a set of models, frameworks, strategies, and findings in the three stages of

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the disaster (before--during--after). This book: describes the methodology to find secure locations for the Regional Humanitarian Response Depot; offers recommendations for the sites and creation of an Export Logistics Cluster; shows how to use available technology and information to locate volunteers in the right spots describes mathematical models to help to allocate procedure of resources for restoring the affected community and proposes actions to create resilience in the country's main economic sectors, including agriculture and industry. The processes applied at recent disasters such as the 19S earthquake and their results are used as case studies, identifying possibilities for further improvement. The book also describes new trends for Mexico due to climate change and makes suggestions for mitigating future disasters. The proposals are also replicable to other highly populated societies with similar socio-economic structures. Finally, this book is the basis for generating more innovative recommendations by researchers, graduate students, academics, professionals, and practitioners to obtain better planning and better collaboration between all the humanitarian chain actors. This book intends to be of interest as a fundamental tool for decision-makers, governments, non-governmental organizations, and enterprises.

The uptake of ecosystem-based approaches for disaster risk reduction (DRR) is slow, however, despite some success stories. There are multiple reasons for this reluctance: ecosystem management is rarely considered as part of the portfolio of DRR solutions because the environmental and disaster management communities typically work independently from each other; its contribution to DRR is highly undervalued compared to engineered solutions and therefore not given appropriate budget allocations; and there are poor interactions between policymakers and researchers, leading to unclear and sometimes contradictory

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scientific information on the role of ecosystems for DRR. The aim of this book is to provide an overview of knowledge and practice in this multidisciplinary field of ecosystems management and DRR. The contributors, professionals from the science and disaster management communities around the world, represent state-of-the-art knowledge, practices, and perspectives on the topic.

This book includes selected papers presented at the international expert forum on “Mainstreaming Resilience and Disaster Risk Reduction in Education,” held at the Asian Institute of Technology, Thailand on 1–2 December 2017. The journey towards disaster risk reduction and resilience requires the participation of a wide array of stakeholders ranging from academics to policymakers, to disaster managers. Given the multifaceted and interdependent nature of disasters, disaster risk reduction and resilience require a multidisciplinary problem-solving approach and evidence-based techniques from the natural, social, engineering, and other relevant sciences. Traditionally, hazard and disaster-related studies have been dominated by the engineering and social science fields. In this regard, the main purpose of this book is to capture the multidisciplinary and multisectoral nature of disaster risk reduction, and to gather existing data, research, conceptual work, and practical cases regarding risk reduction and its ties to sustainable development under a single “umbrella.” Along with the sustainability aspect, the book also links disaster risk reduction with development, technology, governance, education, and climate change, and includes discussions on challenges, solutions, and best practices in the mainstreaming of disaster risk reduction.

This book presents selected papers from the 3rd Global Summit of Research Institutes for Disaster Risk Reduction – Expanding the Platform for Bridging Science and Policy Making,

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which was held at the Disaster Prevention Research Institute (DPRI), Kyoto University, Uji Campus from 19 to 21 March 2017. It was organised by the Global Alliance of Disaster Research Institutes (GADRI), which was established soon after the second Global Summit and the UN World Conference on Disaster Risk Reduction in March 2015, and is intended to support the implementation of the Sendai Framework for Disaster Risk Reduction 2015–2030. The conference not only provided a platform for discussion and exchange of information on key current and future research projects on disaster risk reduction and management, but also promoted active dialogues through group discussion sessions that addressed various disaster research disciplines. In this book, authors from various disciplines working at governmental and international organisations provide guidance to the science and technical community, discuss the current challenges, and evaluate the research needs and gaps in the context of climate change, sustainable development goals and other interlinked global disaster situations. Expert opinions from practitioners and researchers provide valuable insights into how to connect and engage in collaborative research with the international science and technical communities and other stakeholders to achieve the goals set out in the agenda of the Sendai Framework for Disaster Risk Reduction 2015–2030. In addition, case studies and other evidence-based research papers highlight ongoing research projects and reflect the challenges encountered in information sharing by various stakeholders in the context of disaster risk reduction and management. Chapter “Science and technology commitment to the implementation of the Sendai Framework for Disaster Risk Reduction 2015-2030” is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

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Toward Resilience: A Guide to Disaster Risk Reduction and Climate Change Adaptation is an introductory resource for development and humanitarian practitioners working with populations at risk of disasters and other impacts of climate change.

This book presents a comprehensive framework and indicators that can be used to assess a city's degree of resilience. Based on surveys using bottom-up assessment tools, it proposes the concept, framework and indicators of a resilient policy model (including some participatory approaches). It also presents case studies of this and similar tools applied to Japanese and Asian cities, the highlights including information not previously available in English. Today, the term "resilience" is prevalent in the context of sustainable societies. The IPCC AR5 published in 2014 again stressed the impact of climate change on natural disasters, while in March 2015 at the World Conference on Disaster Risk Reduction, the United Nations International Strategy of Disaster Reduction (UNISDR) published the Sendai Framework for Disaster Risk Reduction Action 2015-2030 , which serves as a guideline for local governments. Offering transdisciplinary perspectives from fields such as policy science, urban planning, environmental science, social psychology, management development and geography, this book discusses the lessons learned from Asian case studies, explaining the challenges and the effectiveness of the tools, and offering transdisciplinary insights for policymakers.

This book draws upon case studies and practices of different types of DRR involvement by the private sector from all over the world. The book comprises two parts, Part I: Overview and Regional Cases; and Part II: Country Cases. The regional cases include those from Africa, Asia, Europe, and Central America, and the country cases include ones from India, Japan, the United States, Vietnam, Thailand, Bangladesh, Malaysia, and Nepal. DRR at the international

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level is discussed from the perspective of the United Nations International Strategy for Disaster Reduction (UNISDR). The perspective of the Asia–Pacific Economic Cooperation (APEC) is presented in the discussion of DRR at the societal level. The private sector is becoming more active in disaster management and plays an important role in distributing relief items and sending search and rescue teams in the response phase. However, once the response stage is over, private sector involvement tends to fade. While a number of disaster risk reduction (DRR) initiatives by the private sector are documented, they remain limited. The private sector can contribute enormously to DRR by developing business continuity plans, innovating technology for early warning systems, and providing and sharing technical knowledge, skills, and resources in the field of disaster preparedness. To strengthen DRR capacity, it is crucial to involve the private sector as major actors in DRR. The primary target groups for this book are students and researchers in the fields of disaster management and DRR studies. Another target group comprises practitioners and policy makers, who will be able to apply the collective knowledge from this work to policy and decision making. The book provides an overview of the current research trends and furnishes basic knowledge on this important topic.

Technological advances have helped to enhance disaster resilience through better risk reduction, response, mitigation, rehabilitation and reconstruction. In former times, it was local and traditional knowledge that was mainly relied upon for disaster risk reduction. Much of this local knowledge is still valid in today's world, even though possibly in different forms and contexts, and local knowledge remains a shared part of life within the communities. In contrast, with the advent of science and technology, scientists and engineers have become owners of advanced technologies, which have contributed significantly to reducing disaster risks across

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the globe. This book analyses emerging technologies and their effects in enhancing disaster resilience. It also evaluates the gaps, challenges, capacities required and the way forward for future disaster management. A wide variety of technologies are addressed, focusing specifically on new technologies such as cyber physical systems, geotechnology, drone, and virtual reality (VR)/ augmented reality (AR). Other sets of emerging advanced technologies including an early warning system and a decision support system are also reported on. Moreover, the book provides a variety of discussions regarding information management, communication, and community resilience at the time of a disaster. This book's coverage of different aspects of new technologies makes it a valuable resource for students, researchers, academics, policymakers, and development practitioners.

This is the first book to articulate resilience-based public policy for a constantly changing, complex, and uncertain risk society. Its primary focus is on operationalizing resilience, i.e., on incorporating elements of resilience in public policy in the context of our modern risk society. While there is a wealth of literature on resilience and disaster risk management, there are few publications that focus on the nexus of resilience and public policy, resulting in gaps between various fields and public policy for resilient societies and disaster risk management. In response, this book integrates the latest theoretical insights on public policy and resilience and the latest practical analyses of case studies such as the Tohoku Disaster (Great East Japan Earthquake) in 2011 and Hurricane Sandy on the North American East Coast in 2012 to provide policy tools for future resilient societies and disaster risk management. The recent disaster cases illustrate that our changing, complex and uncertain risk environment requires far more resilience-based public policy through co-production of knowledge than is normally

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required for conventional disasters. By linking various fields and public policy, the book articulates a resilience-based public policy, i.e., the incorporation of resilience into various entities by designing and implementing “linkages.” These include national-to-local linkages, linkages between different entities such as scientific communities and decision makers, and linkages between financial, human, and information resources. Thus, the nexus of resilience and public policy presented in this book aims at better public policy to face a changing and complex risk society, together with fundamental uncertainties at regional, national, and local levels around the world.

Education for Sustainable Development (ESD) and Disaster Risk Reduction Education (DRRE) have overlapping areas of concern focusing on strengthening the link to local communities. In reality, there is significant synergy in ESD and disaster risk reduction (DRR). Both concepts urge looking at the communities, both focus on behavior changes and both call for linking knowledge to action. The Decade of Education for Sustainable Development (DESD) ends in 2014 and the Hyogo Framework for Action (HFA) ends in 2015. Therefore, at this junction, it is important to review the progress made over the past 10 years and to suggest future synergy options. This book is the first attempt to review these two emerging fields and to provide input to the future direction of education. The book has 11 chapters, drawing lessons mainly from Japan and discussing their implications for the world. The first four chapters provide an overview of the ESD–DRR linkage, ESD and its evolution, DRRE and Climate Change Education. These are followed by case studies from ESD practices in Japan, in schools, universities and communities. The primary target groups for this book are students and researchers in the fields of environment, disaster risk reduction and climate change studies.

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The book provides them with a good idea of the current research trends in the field and furnishes basic knowledge about these vital topics. Another target group comprises practitioners and policy makers, who will be able to apply the knowledge collected here to establishing policy and making decisions.

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