

Esther Charlesworth and Iftekhar Ahmed



# SUSTAINABLE HOUSING RECONSTRUCTION

DESIGNING RESILIENT HOUSING AFTER NATURAL DISASTERS



# Sustainable Housing Reconstruction Designing Resilient Housing After Natural Disasters

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## **Sustainable Housing Reconstruction Designing Resilient Housing After Natural Disasters:**

**Sustainable Housing Reconstruction** Esther Charlesworth, Iftekhar Ahmed, 2015-06-05 Through 12 case studies from Australia Bangladesh Haiti Sri Lanka Vietnam and the USA this book focuses on the housing reconstruction process after an earthquake tsunami cyclone flood or fire Design of post disaster housing is not simply replacing the destroyed house but as these case studies highlight a means to not only build a safer house but also a more resilient community not to simply return to the same condition as before the disaster but an opportunity for building back better The book explores two main themes Housing reconstruction is most successful when involving the users in the design and construction process Housing reconstruction is most effective when it is integrated with community infrastructure services and the means to create real livelihoods The case studies included in this book highlight work completed by different agencies and built environment professionals in diverse disaster affected contexts With a global acceleration of natural disasters often linked to accelerating climate change there is a critical demand for robust housing solutions for vulnerable communities This book provides professionals policy makers and community stakeholders working in the international development and disaster risk management sectors with an evidence based exploration of how to add real value through the design process in housing reconstruction Herein then the knowledge we need to build an approach to improve our processes a window to understanding the complex domain of post disaster housing reconstruction

*Urban Planning for Disaster Recovery* Alan March, Maria Kornakova, 2017-05-10 Urban Planning for Disaster Recovery focuses on disaster recovery from the perspective of urban planning an underutilized tactic that can significantly reduce disaster risks The book examines disaster risk reduction DRR in particular the recovery stage of what is widely known as the disaster cycle The theoretical underpinning of the book derives from a number of sources in urban planning and disaster management literature and is illustrated by a series of case studies It consists of five sections each of which opens with a conceptual framework that is followed by a series of supporting and illustrative cases as practical examples These examples both complement and critique the theoretical base provided demonstrating the need to apply the concepts in location specific ways Examines disaster recovery from an urban planning perspective Illustrates key concepts with real world case studies Explores the contributions of experts urban planners NGOs and community members

*Recovery from Disaster* Ian Davis, David Alexander, 2015-08-20 Disasters can dominate newspaper headlines and fill our TV screens with relief appeals but the complex long term challenge of recovery providing shelter rebuilding safe dwellings restoring livelihoods and shattered lives generally fails to attract the attention of the public and most agencies On average 650 disasters occur each year They affect more than 200 million people and cause 166 trillion of damage Climate change population growth and urbanisation are likely to intensify further the impact of natural disasters and add to reconstruction needs Recovery from Disaster explores the field and provides a concise comprehensive source of knowledge for academics planners architects engineers construction managers relief and development officials and

reconstruction planners involved with all sectors of recovery including shelter and rebuilding With almost 80 years of first hand experience of disaster recovery between them Ian Davis an architect and David Alexander a geographer draw substantially from first hand experiences in a variety of recovery situations in China Haiti Italy Japan New Zealand Pakistan the Philippines and the USA The volume is further enriched by two important and unique features 21 models of disaster recovery are presented seven of which were specifically developed for the book The second feature is a survey of expert opinion about the nature of effective disaster recovery the first of its kind More than 50 responses are provided in full along with an analysis that integrates them with the theories that underpin them By providing a framework and models for future study and applications Davis and Alexander seek both to advance the field and to provide a much needed reference work for decision makers With a broad perspective derived from the authors roles held as university professors researchers trainers consultants NGO directors and advisors to governments and UN agencies this comprehensive guide will be invaluable for practitioners and students of disaster management

Community Engagement in Post-Disaster Recovery Graham Marsh,Iftekhar Ahmed,Martin Mulligan,Jenny Donovan,Steve Barton,2017-09-11 Community Engagement in Post Disaster Recovery reflects a wide array of practical experiences in working with disaster affected communities internationally It demonstrates that widely held assumptions about the benefits of community consultation and engagement in disaster recovery work need to be examined more critically because poorly conceived and hastily implemented community engagement strategies have sometimes exacerbated divisions within affected communities and or resulted in ineffective use of aid funding It is equally demonstrated that well crafted creative and thoughtful programming is possible The wide collection of case studies of practical experience from around the world is presented to help establish ways of working with communities experiencing great challenges The book offers practical suggestions on how to give more substance to the rhetoric of community consultation and engagement in these areas of work It suggests the need to work with a dynamic understanding of community formation that is particularly relevant when people experience unforeseen challenges and traumatic experiences This title interrogates the concept of community through an extensive review of the literature and explores the ways of working with communities in transition and particularly in their recovery phases through an array of case studies in a range of socioeconomic and political contexts Focused on the concept of community in post disaster recovery solutions an aspect which has received little critical interrogation in the literature this book will be a valuable resource to students and scholars in disaster management as well as humanitarian agencies

**Two Decades from the Indian Ocean Tsunami** Rajib Shaw,Takako Izumi,Riyanti Djalante,Fumihiko Imamura,2025-04-19 This book presents the advancements in the disaster risk reduction and resilience building in the countries affected by the Indian Ocean Tsunami countries The book includes a few cross cutting issues related to governance technology and communities with two major parts 1 cross cutting issues and 2 regional and country level experiences At the threshold of twenty years from Indian Ocean

Tsunami the concept of disaster risk reduction field has evolved significantly in the affected countries as well as around the world Globally several mega disasters happened in the last 20 years and risk landscape has become more complex In addition technology governance and people's resilience have gained positive momentum We had two world conferences on disaster risk reduction resulting in two global disaster risk reduction frameworks which aligned with development frameworks as well as climate change agreements COVID 19 and post COVID risk landscape has brought the new dimension of compound and complex disasters and need for all hazards approach

### **External Interventions for Disaster Risk Reduction**

Imon Chowdhoree,Shams Mansoor Ghani,2020-08-29 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 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

### **Advances in Engineering**

**Management, Innovation, and Sustainability** James Olabode Bamidele Rotimi,Wajiha Mohsin Shahzad,Monty

Sutrisna,Ravindu Kahandawa,2024-07-09 This book contains a selection of papers from the 13th International Conference on Engineering Project and Production Management EPPM held in Auckland New Zealand from 29 November to 1 December 2023 The conference was organized by the School of Built Environment Massey University in collaboration with the EPPM Association The book comprises of quality assured theoretical discussions data analysis case studies and industry practices presented by global researchers and practitioners The conference theme was Creating capacity and capability re energizing supply chain for sustainable management of projects and productions in engineering and this volume focuses on papers related to engineering management innovation and sustainability The papers are comprehensive multidisciplinary and advanced and will be of interest to researchers and practitioners from various industries seeking the latest updates on the fields of engineering project and production management

### *Handbook on Climate Change and Disasters*

Shaw, Rajib,2022-10-13 This comprehensive Handbook assesses the escalation of global natural disasters as a result of climate change Examining the complex interplay of human and natural activities it highlights the growing vulnerability of people and communities in developing countries to floods landslides cyclones heat waves and wildfires

### **The Handbook of**

**Displacement** Peter Adey,Janet C. Bowstead,Katherine Brickell,Vandana Desai,Mike Dolton,Alasdair Pinkerton,Ayesha Siddiqi,2020-12-11 This Handbook provides the knowledge and tools needed to understand how displacement is lived

governed and mediated as an unfolding and grounded process bound up in spatial inequities of power and injustice. The handbook ensures first that internal displacements and their everyday occurrences are not overlooked second it questions who counts by including displaced people who are less obviously identifiable and a clearly circumscribed or categorised group third it stresses that while displacement suggests mobility there are also periods and spaces of enforced stillness that are not adequately reflected in the displacement literature and fourth it re evokes and explores the place in displacement by critically interrogating peoples right to place and the significance of placemaking unmaking and remaking in the contemporary world. The 50 plus chapters are organised across seven themes designed to further develop interdisciplinary study of the technologies journeys traces governance more than human representation and resisting of displacement. Each of these thematic sections begin with an intervention which spotlights actions to creatively and strategically intervene in displacement. The interventions explore myriad meanings and manifestations of displacement and its contestation from the perspective of displaced people artists writers activists scholars involved in practice oriented research. The Handbook will be an essential companion for academics students and practitioners committed to forging solidarity care and home in an era of displacement.

**Rebuilding After Disasters** Gonzalo Lizarralde, Cassidy Johnson, Colin Davidson, 2009-09-10

Disasters are not natural. Natural events such as earthquakes floods hurricanes etc become disasters because of the fragile relations that exist between the natural human and built environments. Sadly major disasters will always occur in towns and cities in the developing world where resources are limited people are vulnerable and needs are particularly great. The prevailing state of emergency challenges thoughtful and sustainable planning and construction. Yet it is possible in theory and in practice to construct them in a way that provides a sustainable environment and improved conditions for current and future generations. Rebuilding After Disasters emphasizes the role of the built environment in the re establishment of lives and sustainable livelihoods after disasters. Expert contributors explain the principal challenges facing professionals and practitioners in the building industry. This book will be of great value to decision makers students and researchers in the fields of architecture social sciences engineering planning geography and disaster recovery.

**Safer Homes, Stronger Communities** Abhas K. Jha, 2010-01-15

This handbook is designed to guide public sector managers and development practitioners through the process of large scale housing reconstruction after major disasters based on the experiences of recent reconstruction programs in Aceh Indonesia Sri Lanka Pakistan Gujarat India and Bam Iran.

**First Quarter Recovery** Dallas Mahaney, 2020

Architects and designers continue to seek new innovative ways to house individuals that are reproduced at a large scale sustainably. Modular buildings are changing how architects create structures. Modularity allows for these spaces to be adaptable which allows the unit to be easily changed over rapidly produced shortens the construction time and overall costs. It is the responsibility of the architect to consider how the unit is constructed in a sustainable manner. Architects should also consider the sustainability measures that improve the efficiency of the unit and its

impact on the environment Biomimicry is being used to integrate the local environment into the project and challenge designers to build and live more sustainably Biomorphic describes anything resembling or suggesting the forms of a living organism It is critical to think of new innovative solutions to house individuals through a lens of sustainability to ensure both humans and nature are both prospering while achieving a level of sustainability for the future This thesis will bring light to a new way of thinking about sustainable biomimetic modular units The unit will be used as a response to the natural disaster events but as a model that can house individuals in various types of living conditions in North America Climate change is giving rise to severe natural disasters on a global scale that is displacing and killing millions of people annually The United States contributes the most carbon dioxide emissions globally and spends the most on natural disaster relief efforts Many of these relief efforts used are the same type of construction which is prone to failing and some mitigation efforts harm the natural ecosystem People in poverty typically face the brunt of the effects of natural disasters because of the lack of resilient homes and the destruction of the land they harvest We must rethink the way we prepare for natural disasters mitigate and recover from these natural disasters If we consider these tactics through the lens of nature it will help to lower our greenhouse gas emission and create new resilient strategies that allow for nature and humans to prosper while mitigating the effects of natural disasters The thesis research builds upon the FEMAs Housing Strategy and various precedents to understand the current challenges that face natural disaster relief in North America The master thesis outlines strategies for resilient and adaptive housing to be deployed in natural disaster relief with a primary focus in San Leon Texas as a case study to test approaches for addressing the issue of flooding This research will critique the current response to disaster relief and propose new tactics driven by the needs of the individual the community the environment and the sustainability of the modular unit The proposed strategy is investigated through the lens of biomimicry to design more sustainably and allow humans and nature both to prosper while mitigating the effects of natural disasters The thesis aims to develop a core unit that will replace the current FEMA trailer model with the new tactics outlined The core unit will show simulations that will propose how one unit can be adapted in multiple ways The intention of the core unit will provide a model that is primarily intended to deal with natural disaster relief but also as a potential model that can be implemented in any living condition in North America

**Coming Home after Disaster** Alka Sapat, Ann-Margaret Esnard, 2016-12-19 Post disaster housing concerns and dilemmas are complex global in nature and are inextricably intertwined with social economic and political considerations The multi faceted nature of housing recovery requires a holistic approach that accounts for its numerous dimensions and contours that are best captured with multi disciplinary multi scalar and multi hazard approaches This book serves as a valuable resource by highlighting the key issues and challenges that need to be addressed with regard to post disaster housing By featuring a collection of case studies on various disasters that have occurred globally and written by scholars and practitioners from various disciplines it highlights the rich diversity of approaches taken to solve post disaster

housing problems Coming home after Disaster can serve as an essential reference for researchers and practitioners in disaster and emergency management public administration public policy urban planning sociology anthropology geography economics architecture and other related social science fields Key features in this book are Addresses a wide range of dilemmas such as differential levels of social and physical vulnerability problems related to land tenure home ownership property rights planning and zoning and political and legal challenges to housing recovery Discusses the role played by public private and non governmental organizations the informal sector financial institutions and insurance in rebuilding and housing recovery Features global case studies incorporates relevant examples and policies and offers solutions from a range of scholars working in multiple disciplines and different countries Housing Recovery after Disasters Frances L. Edwards, 2019-08-15 Recent disasters have demonstrated the critical role that re housing victims play in communities long term disaster recovery This book examines the history and theories of rehousing the role of bonding social capital applies systems theory to understanding the stages of recovery then presents case studies of long term housing recovery following Hurricane Katrina and Hurricane Sandy in the United States Hurricane Maria in Dominica the 2010 earthquake in Haiti and a variety of disasters in Turkey Nepal Japan and India Together these chapters address what Dr Louise Comfort has called one of the most persistent and difficult policy problems in the field long term recovery of communities following disaster

**Enhancing Urban Safety and Security** United Nations Human Settlements Programme, 2007 First Published in 2007 Routledge is an imprint of Taylor Francis an informa company *Humanitarian Architecture* Esther Charlesworth, 2014-06-27 Never has the demand been so urgent for architects to respond to the design and planning challenges of rebuilding post disaster sites and cities In 2011 more people were displaced by natural disasters 42 million than by wars and armed conflicts And yet the number of architects equipped to deal with rebuilding the aftermath of these floods fires earthquake typhoons and tsunamis is chronically short This book documents and analyses the expanding role for architects in designing projects for communities after the event of a natural disaster The fifteen case studies featured in the body of the book illustrate how architects can use spatial sensibility and integrated problem solving skills to help alleviate both human and natural disasters The cases include Lizzie Babister Department of International Development UK Shigeru Ban Winner of The Pritzker Architecture Prize 2014 Shigeru Ban Architects and Voluntary Architects Network Japan Eric Cesal Disaster Reconstruction and Resiliency Studio and Architecture for Humanity Japan Hsieh Ying Chun Atelier 3 Taiwan Nathaniel Corum Education Outreach and Architecture for Humanity USA Sandra D Urzo Shelter and Settlements and International Federation of the Red Cross and Red Crescent Societies Switzerland Brett Moore World Vision International Australia Michael Murphy MASS Design Group USA David Perkes Gulf Coast Community Design Studio USA Paul Pholeros Healthabitat Australia Patama Roonrakwit Community Architects for Shelter and Environment Thailand Graham Saunders International Federation of Red Cross and Red Crescent Societies Switzerland Kirtee Shah Ahmedabad Study Action Group

India Maggie Stephenson UN HABITAT Haiti Anna Wachtmeister Catholic Organisation for Relief and Redevelopment Aid the Netherlands The interviews and supporting essays show built environment professionals collaborating with post disaster communities as facilitators collaborators and negotiators of land space and shelter rather than as save the world modernists as often portrayed in the design media The goal is social and physical reconstruction as a collaborative process involving a damaged community and its local culture environment and economy not just shelter projects that build houses but leave no economic footprint or longer term community infrastructure What defines and unites the architects interviewed for Humanitarian Architecture is their collective belief that through a consultative process of spatial problem solving the design profession can contribute in a significant way to the complex post disaster challenge of rebuilding a city and its community

Resilient Recovery from Disasters Mittul Vahanvati,Liz Maly,Titaya Sararit,2024-12-15 This book is a call to action for housing recovery policymakers and practitioners to leverage foresight and planning capacities to achieve long term resilience For human societies to thrive in a rapidly changing climate and uncertain future it is essential to learn about factors that can catalyse systemic change through disaster recovery process This book identifies key factors in housing recovery that meets housing rights of the most vulnerable as well as help leapfrog to resilience strengthening of housing its residents and institutions To capture diverse experiences of stakeholders in various economies socio cultural technical and political contexts the authors draw from six cases of post disaster housing reconstruction and rehabilitation projects from larger recovery programs from three Asian countries India Thailand and Japan This book identifies both unique and common findings It is an essential resource for disaster recovery and housing practitioners policy makers students and researchers

*Post-Disaster Reconstruction and Change* Jennifer E. Duyne Barenstein,Esther Leemann,2012-10-29 Successful recovery following a disaster depends upon transcending the disciplinary divides of architecture engineering and planning and emphasizing the importance of community perspectives in the post disaster reconstruction process Effective results in community recovery mandate that we holistically examine the complex interrelationship between *Socio-Natural Disaster Recovery Projects* Homa Bahmani,Wei Zhang,Yibin Ao,2025-09-20 This book offers a comprehensive analysis of socio natural disaster recovery projects using the Bam and Wenchuan earthquakes as case studies to evaluate their success and failure With escalating losses from socio natural disasters and a high failure rate among recovery projects it addresses the urgent need for effective management guidelines by leveraging past experiences Tackling the discrepancy between reported project success and public perception the book emphasizes the importance of stakeholder perspectives and assessment timing It sets out to solve the problem of ineffective disaster recovery management by proposing a robust framework and practical guidelines for successful recovery projects aiming to prioritize project goals and refine evaluation criteria leading to more desirable outcomes and enhanced community resilience The main topics covered include 1 Critical Overview and Conceptual Framework The book begins with a thorough overview of socio natural disaster recovery projects leading to the development

of a conceptual management framework This framework outlines essential steps based on a continuous life cycle to streamline recovery efforts 2 Success Factors and Dimensions It identifies key success factors and dimensions to comprehensively measure project outcomes These findings are structured through rigorous triangulation of primary and secondary data 3 Comparative Policy Analysis A micro comparison of recovery policies in Iran and China two of the most vulnerable countries provides practical suggestions using success factors influential pathways and SWOT analysis 4 Community Recovery Dynamics The book explores why communities recover differently applying qualitative comparative analysis to neighborhoods in Bam and towns affected by the Wenchuan earthquake The target audience includes policymakers project managers researchers and practitioners in disaster management urban planning and civil engineering Academics and government officials responsible for managing socio natural disaster recovery projects will find this book invaluable for improving project success and community resilience

### **Post-Disaster Reconstruction of the Built**

**Environment** Dilanthi Amaratunga, Richard Haigh, 2011-06-13 Disasters threaten all parts of the world and they appear to be increasing in frequency scale and intensity Despite huge improvements in the emergency response permanent reconstruction is often uncoordinated inefficiently managed and slow to begin International agencies are geared to an efficient response in terms of humanitarian relief but they are not well versed in the requirements of long term reconstruction which is often constrained by lack of planning and poorly coordinated management The construction industry is typically engaged in a range of critical activities after a disaster including provision of temporary shelter in the immediate aftermath and restoration of permanent shelter and public infrastructure once the immediate humanitarian needs have been attended to Post Disaster Reconstruction of the Built Environment identifies the challenges that face the industry and highlights best practice to enable the construction industry to address those problems which make an effective response to these unexpected events difficult Written by an international team of experts this book will help researchers and advanced students of construction understand the problems faced by communities and the construction industry when faced with a natural or man made disaster and identify the planning and management processes required by the industry to mount an effective response

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