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Large dam construction has significant environmental and social impacts at different scales. As the largest developing country in the world, China has built about half of the world's large dams, and more are expected to be built over the next two decades to meet the country's rapidly growing demand for energy. This book summarizes and updates information about the history, distribution, functions, and impacts of large dams, both globally and at China's national level. It then addresses the environmental and social-economic impacts of large dams in China with particular emphasis on the impacts of large dams on relocated people and associated compensation policies. Lastly, it introduces an integrated ecological and socio-economic study conducted in areas affected by dams along the Upper Mekong River, China. This book has the following three goals. The first goal is to summarize and update information on large dams globally and at China's national level (Ch. 2). We examine large dam problems from different perspectives, ranging from their spatial and temporal distributions and their environmental and social impacts, to discussions and debates centered on them. We also incorporate the results of an empirical investigation of the environmental and socio-economic impacts of large dams on the Upper Mekong River, China, and draw conclusions out of the analysis (Chs.3 & 4). Our second goal is to provide an analysis framework to help understand the environmental and social-economic impacts of dam construction and the resulting environmental degradations and social inequities at different scales (Chs.3 & 4), as well as to offer recommendations for mitigating these impacts within China's socio-political context (Ch. 5). The significant environmental effects resulting from dam construction include damage to ecological integrity and loss of biological diversity. The most significant social consequences brought by dam projects are their negative impacts on relocated people. Our analysis framework provides approaches to help comprehensively understand these impacts. Our third goal is to provide clues and suggestions for further studies of large dam problems both globally and in China (Ch. 5). The construction of large dams is proceeding rapidly in different parts of the world despite the heated debates on whether they should be built at all. The decision-making process related to building large dams involves considerations of economic viability, environmental sustainability, and social equity. Therefore, interdisciplinary collaborations are required in large dam research and development projects in order to reconcile the interests of different stakeholders and avoid harming ecosystems, biodiversity, and human welfare. Overall, we hope our book facilitates future examinations of large dams by providing summaries of existing data and research related to large dams, and offering a framework for better understanding and analyzing their environmental and social impacts.

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Hydropower is one of the biggest controversies in Vietnam in recent decades because of its adverse environmental and social consequences, especially negative impacts on displaced people who make way for hydropower dam construction. This book explains the controversies related to hydropower development in Vietnam in order to make policy recommendations for equitable and sustainable development. The book focuses on the analysis of emerging issues, such as land acquisition, compensation for losses, displacement and resettlement, support for livelihood development, and benefit sharing from hydropower development. The analysis emphasizes the role of different stakeholders in the decision-making process for hydropower development in Vietnam as a means to find a better governance model.

This unique volume discusses various aspects of the Grand Ethiopian Renaissance Dam (GERD) and the Aswan High Dam (AHD) including their positive and negative impacts. It presents up-to-date research findings by Egyptian scientists and researchers covering several interesting hot topics under the following main themes: · Major impacts of GERD compared with the AHD · Environmental impacts of the AHD · Modeling scenarios investigating the impacts of GERD on the AHD and downstream · Environmental and social impacts of GERD on Egypt · Status and assessment of the sediment of the AHD reservoir and modeling the impacts of GERD on Lake Nubia sediment accumulation · Proposed scenarios for maximizing the benefits of the AHD reservoir · International aspects of GERD and the AHD The volume also offers a set of conclusions and recommendations to optimize the cooperation between Egypt, Sudan, and Ethiopia. It appeals to postgraduate students, researchers, scientists, professionals and policy planners.

Displacements in the Asia Pacific region are escalating. The region has for decades experienced more than half of the world's natural disasters and, in recent years, a disproportionately high share of extreme weather-related disasters, which displaced 19 million people in 2013 alone. This volume offers an innovative and thought-provoking Asia-Pacific perspective on an intensifying global problem: the forced displacement of people from their land, homes, and livelihoods due to development, disasters and environmental change. This book draws together theoretical and multidisciplinary perspectives with diverse case studies from around the region – including China's Three Gorges Reservoir, Japan's Fukushima disaster, and the Pacific's Banaba resettlement. Focusing on responses to displacement in the context of power asymmetries and questions of the public interest, the book highlights shared experiences of displacement, seeking new approaches and solutions that have potential global application. This book shows how displaced peoples respond to interlinked impacts that unravel their social fabric and productive bases, whether through sporadic protest, organised campaigns, empowered mobility or; even community-based negotiation of resettlement solutions. . The volume will be of great interest to researchers and postgraduate students in development studies, environmental and climate change studies, anthropology, sociology, human geography, international law and human rights.

This book investigates water resources management and policy in China over the last two decades with a core focus on the role of water for socioeconomic development and sustainability. Recent policies, such as the Three Red Lines and the Water Ten Plan are evaluated for sustainable water supply, use and quality control. The book appraises solutions through demand management, water rights and pollution trading, virtual water and water footprint. Supply management is discussed taking examples from the Three Gorges Dam and the South North Water Transfer Project. The water market is investigated uncovering the active engagement of the private sector and includes discussions on how transboundary rivers demonstrate China's engagement with its riparian countries for benefit sharing. This book will be an invaluable reference for researchers in the field as well as practitioners and students who have an interest in water and development in China.

The politics of claiming rights and strategies of mobilisation exhibited by marginalised social groups lie at the heart of this volume. Theoretically, the authors aims to foster a holistic and multi-faceted understanding of how social and economic justice is claimed, either through formal, corporatist or organised mechanisms, or through ad hoc, informal, or individualised practices, as well as the implications of these distinctive activist strategies. The collection emphasises both the difficulties of political mobilisation and the distinctive methods employed by various social groups across a variety of contexts to respond and overcome these challenges. Crucially, the authors' approach involves a conceptualisation of social movements and local mobilisation in terms of the language of rights and justice claims-making through more organised as well as everyday political practices. In so doing, the book bridges the literature on contentious politics, the politics of claiming social justice, and everyday politics of resistance.

The comprehensive guide to engineering alternative and renewable energy systems and applications—updated for the latest trends and technologies This book was designed tohelp engineers develop new solutions for the current energy economy. To that end it provides technical discussions, along with numerous real-world examples of virtually all existing alternative energy sources, applications, systems and system components. All chapters focus on first-order engineering calculations, and consider alternative uses of existing and renewable energy resources. Just as important, the author describes how to apply these concepts to the development of new energy solutions. Since the publication of the critically acclaimed first edition of this book, the alternative, renewable and sustainable energy industries have witnessed significant evolution and growth. Hydraulic fracturing, fossil fuel reserve increases, the increasing popularity of hybrid and all-electric vehicles, and the decreasing cost of solar power already have had a significant impact on energy usage patterns worldwide. Updated and revised to reflect those and other key developments, this new edition features expanded coverage of topics covered in the first edition, as well as entirely new chapters on hydraulic fracturing and fossil fuels, hybrid and all-electric vehicles, and more. Begins with a fascinating look at the changing face of global energy economy Features chapters devoted to virtually all sources of alternative energy and energy systems Offers technical discussions of hydropower, wind, passive solar and solar-thermal, photovoltaics, fuel cells, CHP systems, geothermal, ocean energy, biomass, and nuclear Contains updated chapter review questions, homework problems, and a thoroughly revised solutions manual, available on the companion website While Alternative Energy Systems and Applications, Second Edition is an ideal textbook/reference for advanced undergraduate and graduate level engineering courses in energy-related subjects, it is also an indispensable professional resource for engineers and technicians working in areas related to the development of alternative/renewable energy systems.

China's air pollution is infamous. The haze can make it impossible to see buildings across the street, and the pollution forces schools to close and creates health and morbidity problems, in addition to tremendous environmental degradation. However, China also faces another important environmental problem, which is less well-known to the public: that of soil degradation and pollution. This book provides an overview of the problems related to soil degradation and pollution throughout China, examining how and why current policy has fallen short of expectation. It also examines the challenges faced by policy makers as they attempt to adopt sustainable practices alongside a booming and ever-expanding economy. China's Soil Pollution and Degradation Problems utilizes grey literature such as newspaper articles, NGO reports and Chinese government information alongside academic studies in order to provide an extensive review of the challenges faced by grassroots organizations as they tackle environmental policy failings throughout China. This book will be of great interest to students of environmental pollution and contemporary Chinese studies looking for an introduction to the topics of soil pollution and soil degradation, and for researchers looking for an extensive list of sources and analysis of China's environmental problems more broadly.