

The Political Ecology Of Climate Change Adaptation Livelihoods Agrarian Change And The Conflicts Of Development

Climate Change Adaptation Adaptation to Climate Change Successful Adaptation to Climate Change African Handbook of Climate Change Adaptation Research Handbook on Climate Change Adaptation Policy The Political Economy of Climate Change Adaptation Climate Change Modeling, Mitigation, and Adaptation Climate Change Adaptation in Developed Nations A Critical Approach to Climate Change Adaptation Adapting to Climate Change Innovation in Climate Change Adaptation Climate Change Adaptation in North America Managing Climate Change Adaptation in the Pacific Region Climate Change Adaptation in Africa Limits to Climate Change Adaptation Climate Change Adaptation and Development Implementing Climate Change Adaptation in Cities and Communities Climate Change Adaptation in Practice Adapting to Climate Change in Europe Theory and Practice of Climate Adaptation Adapting to Climate Change Climate Change Adaptation in Southeast Asia Climate Change Adaptation for Transportation Systems Climate Adaptation Engineering Climate Change Adaptation in Latin America Nature-Based Solutions to Climate Change Adaptation in Urban Areas The Geography of Climate Change Adaptation in Urban Africa Climate Change Impacts and Adaptation Strategies for Coastal Communities Climate Change Adaptation Manual Climate Change Adaptation, Resilience and Hazards Community-Based Adaptation to Climate Change Action Research for Climate Change Adaptation Sustainable Geo-Technologies for Climate Change Adaptation Climate Change Adaptation in Developed Nations Resilience The Political Ecology of Climate Change Adaptation Climate Change, Hazards and Adaptation Options Handbook of Climate Change Adaptation Environmental Sustainability and Climate Change Adaptation Strategies Climate Change Adaptation in Pacific Countries

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Climate Change Impacts and Adaptation Strategies for Coastal Communities Jul 05 2020 This book presents a comprehensive overview of research and projects regarding climate change adaptation in coastal areas, providing government and nongovernment bodies with a sound basis to promote climate change adaptation efforts. According to the 5th Assessment Report by the Intergovernmental Panel on Climate Change (IPCC), coastal zones are highly vulnerable to climate change, and climate-driven impacts may be further exacerbated by other human-induced pressures. Apart from sea-level rise, which poses a threat to both human well-being and property, extreme events such as cyclones and storm surges lead not only to significant damage to property and infrastructure, but also to salt water intrusion, groundwater salinisation, and intensified soil erosion, among many other problems. There are also numerous negative impacts on the natural environment and biodiversity, including damage to important wetlands and habitats that safeguard the overall ecological balance, and consequently the provision of ecosystem services and goods on which the livelihoods of millions of people depend. As such, there is a need for a better understanding of how climate change affects coastal areas and communities, and for the identification of processes, methods and tools that can help the countries and communities in coastal areas to adapt and become more resilient. It is against this background that this book has been produced. It includes papers written by scholars, social movements, practitioners and members of governmental agencies, pursuing research and/or executing climate change projects in coastal areas and working with coastal communities. Focusing on “managing climate change in coastal regions”, it showcases valuable lessons learned from research and field projects and presents best practices to foster climate change adaptation in coastal areas and communities, which can be implemented elsewhere.

Community-Based Adaptation to Climate Change Apr 01 2020 As climate change adaptation rises up the international policy agenda, matched by increasing funds and frameworks for action, there are mounting questions over how to ensure the needs of vulnerable people on the ground are met. Community-based adaptation (CBA) is one growing proposal that argues for tailored support at the local level to enable vulnerable people to identify and implement appropriate community-based responses to climate change themselves. Community Based Adaptation to Climate Change: Scaling it up explores the challenges for meeting the scale of the adaptation challenge through CBA. It asks the fundamental questions: How can we draw replicable lessons to move from place-based projects towards more programmatic adaptation planning? How does CBA fit with larger scale adaptation policy and programmes? How are CBA interventions situated within the institutions that enable or undermine adaptive capacity? Combining the research and experience of prominent adaptation and development theorists and practitioners, this book presents cutting edge knowledge that moves the debate on CBA forward towards effective, appropriate, and ‘scaled-up’ adaptive action.

Climate Change Adaptation, Resilience and Hazards May 03 2020 This book analyses the links between climate change adaptation, resilience and the impacts of hazards. The contributors cover topics such as climate change adaptation in coastal zones, the evaluation of community land models, climate change considerations in public health and water resource management, as well as conceptual frameworks for

understanding vulnerabilities to extreme climate events. The book focuses on a variety of concrete projects, initiatives and strategies currently being implemented across the world. It also presents case studies, trends, data and projects that illustrate how cities, communities and regions have been striving to achieve resilience and have handled hazards.

Adapting to Climate Change in Europe Apr 13 2021 Adapting to Climate Change in Europe: Exploring Sustainable Pathways - From Local Measures to Wider Policies is a scientific synthesis of a four-year project on adaptation activities in Europe. It combines scientific assessments with real-world case descriptions to present specific tools and methods. This book aims at ensuring sustainable solutions in adaptation to climate change. The challenge of adaptation is still at an early stage; this book fills relevant gaps in current knowledge on climate adaptation, providing a crucial set of tools to support effective decision-making. It acts as a guide to practitioners and decision-makers along different steps of on-going adaptation processes. Adapting to Climate Change in Europe contains methods and tools for improving stakeholder's participation and analyzing costs and benefits of different adaptation measures. It is an essential resource for researchers, graduate students, and experts and policymakers working in climate change and adaptation. Features real world case studies providing a tool for comparative learning Fulfills the current knowledge gap in climate change adaptation Includes top-down economic models allowing for a novel application and integration of adaptation features in European and global models Provides in-depth analysis of participation using new empirical material and approaches

Managing Climate Change Adaptation in the Pacific Region Oct 20 2021 This book presents papers written by scholars, practitioners, and members of social movements and government agencies pursuing research and/or climate change projects in the Pacific region. Climate change is impacting the Pacific in various ways, including numerous negative effects on the natural environment and biodiversity. As such, a better understanding of how climate change affects Pacific communities is required, in order to identify processes, methods, and tools that can help countries and the communities in the region to adapt and become more resilient. Further, the book showcases successful examples of how to cope with the social, economic, and political problems posed by climate change in the region.

Theory and Practice of Climate Adaptation Mar 13 2021 Climate change is one of the greatest challenges of our time. As such, both the Fifth Assessment Report (AR5) released by the Intergovernmental Panel on Climate Change (IPCC) and the 25th Conference of the Parties (COP 25) recommendations call for action not only from government, but also from various stakeholders. Apart from the knowledge offered by modeling and forecasts, which allows the readers to understand the problem and how it is likely to develop in the future, the book highlights approaches, methods and tools that can help readers cope with the social, economic and political problems posed by climate change. In other words, the book's goal is to accelerate developments in the field of climate change adaptation. This book gathers papers presented at the "2nd World Symposium on Climate Change Adaptation", a joint initiative by the University of Coimbra (Portugal), the Research and Transfer Centre "Sustainable Development and Climate Change Management" at Hamburg University of Applied Sciences (Germany), and the International Climate Change Information Programme (ICCIP). The book is truly interdisciplinary, covering various key areas in the field of climate change adaptation. Its focus is on "integrative approaches to implementing climate change adaptation", and is expected to contribute to the further development of this fast-growing field.

The Geography of Climate Change Adaptation in Urban Africa Aug 06 2020 This book takes a comprehensive look at several cases of climate change adaptation responses across various sectors and geographical areas in urban Africa and places them within a solid theoretical context. Each chapter is a state-of-the-art overview of a significant topic on climate change adaptation in urban Africa and is written by a leading expert in the field. In addition to the focus on the geography of urban adaptation to climate change in Africa, this collection offers a broader perspective by blending the use of case studies and theory based research. It examines transformations in climate change adaptation and its future orientation from the perspectives of urban planners, political economists, environmentalists, ecologists, economists and geographers, thereby addressing the challenges facing African cities adaptation responses from all angles. Providing up-to-date and authoritative contributions covering the key aspects of climate change adaptation in urban Africa, this book will be of great interest to policymakers, practitioners, scholars and students of geography, urban development and management, environmental science and policy, disaster management, as well as those in the field of urban planning.

Innovation in Climate Change Adaptation Dec 22 2021 This book introduces innovative approaches to pursue climate change adaptation and to support the long-term implementation of climate change policies. Offering new case studies and data, as well as projects and initiatives implemented across the globe, the contributors present new tools, approaches and methods to pursue and facilitate innovation in climate change adaptation.

Climate Change Adaptation for Transportation Systems Dec 10 2020 Climate Change Adaptation for Transportation Systems examines the international state of knowledge on climate change and weather and their potential impacts on the planning, design and serviceability of transportation networks. The book describes alternative frameworks for adapting to climate change in the planning, provision and management of transportation systems. It discusses methods and models for including climate and weather factors in planning and design for use in transportation asset systems under risk and uncertainty. Giving specific attention to road, rail, ports and harbors, the book provides users with the tools they need in decision-making approaches where there is uncertainty. Examines the impact of climate change and extreme weather on the performance and serviceability of transportation assets Explores the issues, methods, frameworks, models and techniques for assessing transportation systems' performance, including considerations for climate and the environment Provides case studies from around the world to illustrate methods, covering a wide range of climatic conditions, considerations and approaches for transportation planners

Research Handbook on Climate Change Adaptation Policy Jun 27 2022 This topical and engaging Research Handbook illustrates the variety of research approaches in the field of climate change adaptation policy in order to provide a guide to its social and institutional complexity. A range of international expert contributors offer interdisciplinary explorations of climate change adaptation policy from policy sciences, legal, and practitioner perspectives. Using examples from a variety of sectors including water, health and land use, and multiple levels of governance and country contexts, from international to local, and developing to developed countries, the chapters examine a wealth of theoretical orientations towards climate change adaptation policy and their underpinnings. In doing so, this Research Handbook provides an understanding of the complexity of the institutions, decision-makers and assumptions that are involved in adaptation research as well as adaptation policy development and implementation. This Research Handbook will be an indispensable resource for both researchers and practitioners in climate change adaptation with an interest in the research methods and policies that support and advance it. Undergraduate and postgraduate students of environmental studies, public policy and politics will also find this book provides a valuable foundation for building a deeper knowledge of adaptation science and policy.

African Handbook of Climate Change Adaptation Jul 29 2022 This open access book discusses current thinking and presents the main issues and challenges associated with climate change in Africa. It

introduces evidences from studies and projects which show how climate change adaptation is being - and may continue to be successfully implemented in African countries. Thanks to its scope and wide range of themes surrounding climate change, the ambition is that this book will be a lead publication on the topic, which may be regularly updated and hence capture further works. Climate change is a major global challenge. However, some geographical regions are more severely affected than others. One of these regions is the African continent. Due to a combination of unfavourable socio-economic and meteorological conditions, African countries are particularly vulnerable to climate change and its impacts. The recently released IPCC special report "Global Warming of 1.5o C" outlines the fact that keeping global warming by the level of 1.5o C is possible, but also suggested that an increase by 2o C could lead to crises with crops (agriculture fed by rain could drop by 50% in some African countries by 2020) and livestock production, could damage water supplies and pose an additional threat to coastal areas. The 5th Assessment Report produced by IPCC predicts that wheat may disappear from Africa by 2080, and that maize— a staple—will fall significantly in southern Africa. Also, arid and semi-arid lands are likely to increase by up to 8%, with severe ramifications for livelihoods, poverty eradication and meeting the SDGs. Pursuing appropriate adaptation strategies is thus vital, in order to address the current and future challenges posed by a changing climate. It is against this background that the "African Handbook of Climate Change Adaptation" is being published. It contains papers prepared by scholars, representatives from social movements, practitioners and members of governmental agencies, undertaking research and/or executing climate change projects in Africa, and working with communities across the African continent. Encompassing over 100 contributions from across Africa, it is the most comprehensive publication on climate change adaptation in Africa ever produced.

Climate Change Adaptation in Pacific Countries Jun 23 2019 This book showcases vital lessons learned from research, field projects and best practice examples with regard to climate change adaptation in countries throughout the Pacific region, a part of the planet that is particularly vulnerable to and affected by climate change. The book's primary goals are to document the wealth of experiences in the region available today, to encourage cross-sector interactions among the various stakeholders in the region, and to help transfer results to other countries and regions. Accordingly, it gathers a set of papers presented at a symposium on climate change adaptation held in Fiji in July 2016, focusing on "Fostering Resilience and Improving the Quality of Life". In these contributions, local and international experts present a variety of initiatives showing how Pacific countries are coping with the many problems associated with climate change, including initiatives in education and awareness work taking place across the region, operational aspects and their implications for policy-making, and challenges in urban and rural areas.

Climate Change Adaptation in Latin America Oct 08 2020 This book showcases experiences from research, field projects and best practice in climate change adaptation in countries in the Latin American region, focusing on managing vulnerability and fostering resilience. It includes a selection of papers presented at a specialist symposium on climate change adaptation held in Rio de Janeiro, Brazil in November 2016. Consistent with the need for more cross-sectoral interaction among the various stakeholders working in the field of climate change adaptation in Latin America, the book documents and disseminates the wealth of experiences in the region. It is divided into two main parts: Part 1 addresses the current and future impacts of climate change on fauna, flora and landscapes, while Part 2 is concerned with the socio-economic aspects of climate change adaptation, analyzing some of the main problems prevailing in this vulnerable region and examining ways to address them.

Limits to Climate Change Adaptation Aug 18 2021 This book sheds new light on the limits of adaptation to anthropogenic climate change. The respective chapters demonstrate the variety of and interconnections between factors that together constitute the constraints on adaptation. The book pays special attention to evidence that illustrates how and where such limits have become apparent or are in the process of establishing themselves, and which indicates future trends and contexts that might prove helpful in understanding adaptation limits. In particular, the book provides an overview of the most important challenges and opportunities regarding adaptation limits at different temporal, jurisdictional, and spatial scales, while also highlighting case studies, projects and best practices that show how they may be addressed. The book presents innovative multi-disciplinary research and gathers evidence from various countries, sectors and regions, the goal being to advance our understanding of the limits to adaptation and ways to overcome or modify them.

Handbook of Climate Change Adaptation Aug 25 2019

Climate Change Adaptation and Development Jul 17 2021 Climate change poses multiple challenges to development. It affects lives and livelihoods, infrastructure and institutions, as well as beliefs, cultures and identities. There is a growing recognition that the social dimensions of vulnerability and adaptation now need to move to the forefront of development policies and practices. This book presents case studies showing that climate change is as much a problem of development as for development, with many of the risks closely linked to past, present and future development pathways. Development policies and practices can play a key role in addressing climate change, but it is critical to question to what extent such actions and interventions reproduce, rather than address, the social and political structures and development pathways driving vulnerability. The chapters emphasise that adaptation is about much more than a set of projects or interventions to reduce specific impacts of climate change; it is about living with change while also transforming the processes that contribute to vulnerability in the first place. This book will help students in the field of climate change and development to make sense of adaptation as a social process, and it will provide practitioners, policymakers and researchers working at the interface between climate change and development with useful insights for approaching adaptation as part of a larger transformation to sustainability.

Sustainable Geo-Technologies for Climate Change Adaptation Jan 29 2020 This edited volume is a compilation of peer-reviewed papers of the plenary lectures, keynote lectures, special lectures and young researcher's special lectures delivered at the 1st International Symposium on Construction Resources for Environmentally Sustainable Technologies (CREST 2020) organized by Kyushu University, Fukuoka, Japan. The book focuses on sustainability, promotion of new ideas and innovations in design, construction and maintenance of geotechnical structures with the aim of contributing towards climate change adaptation and disaster resiliency to meet the UN Sustainable Development Goals (SDGs). It presents latest research, information, technological advancement, practical challenges encountered, and solutions adopted in the field of geotechnical engineering for sustainable infrastructure towards climate change adaptation. This volume will be of interest to those in academia and industry alike.

Adaptation to Climate Change Sep 30 2022 The impacts of climate change are already being felt. Learning how to live with these impacts is a priority for human development. In this context, it is too easy to see adaptation as a narrowly defensive task – protecting core assets or functions from the risks of climate change. A more profound engagement, which sees climate change risks as a product and driver of social as well as natural systems, and their interaction, is called for. Adaptation to Climate Change argues that, without care, adaptive actions can deny the deeper political and cultural roots that call for significant change in social and political relations if human vulnerability to climate change associated risk is to be reduced. This book presents a framework for making sense of the range of choices facing humanity, structured around resilience (stability), transition (incremental social change and the exercising of existing rights) and transformation (new rights claims and changes in political regimes). The

resilience-transition-transformation framework is supported by three detailed case study chapters. These also illustrate the diversity of contexts where adaptation is unfolding, from organizations to urban governance and the national polity. This text is the first comprehensive analysis of the social dimensions to climate change adaptation. Clearly written in an engaging style, it provides detailed theoretical and empirical chapters and serves as an invaluable reference for undergraduate and postgraduate students interested in climate change, geography and development studies.

The Political Ecology of Climate Change Adaptation Oct 27 2019 This book provides the first systematic critique of the concept of climate change adaptation within the field of international development. Drawing on a reworked political ecology framework, it argues that climate is not something 'out there' that we adapt to. Instead, it is part of the social and biophysical forces through which our lived environments are actively yet unevenly produced. From this original foundation, the book challenges us to rethink the concepts of climate change, vulnerability, resilience and adaptive capacity in transformed ways. With case studies drawn from Pakistan, India and Mongolia, it demonstrates concretely how climatic change emerges as a dynamic force in the ongoing transformation of contested rural landscapes. In crafting this synthesis, the book recalibrates the frameworks we use to envisage climatic change in the context of contemporary debates over development, livelihoods and poverty. With its unique theoretical contribution and case study material, this book will appeal to researchers and students in environmental studies, sociology, geography, politics and development studies.

Climate Change Adaptation in Africa Sep 18 2021 This collection showcases experiences from research and field projects in climate change adaptation on the African continent. It includes a set of papers presented at a symposium held in Addis Abeba in February 2016, which brought together international experts to discuss “fostering African resilience and capacity to adapt.” The papers introduce a wide range of methodological approaches and practical case studies to show how climate change adaptation can be implemented in regions and countries across the continent. Responding to the need for more cross-sectoral interaction among the various stakeholders working in the field of climate change adaptation, the book fosters the exchange of information on best practices across the African continent.

A Critical Approach to Climate Change Adaptation Feb 21 2022 This edited volume brings together critical research on climate change adaptation discourses, policies, and practices from a multi-disciplinary perspective. Drawing on examples from countries including Colombia, Mexico, Canada, Germany, Russia, Tanzania, Indonesia, and the Pacific Islands, the chapters describe how adaptation measures are interpreted, transformed, and implemented at grassroots level and how these measures are changing or interfering with power relations, legal pluralism and local (ecological) knowledge. As a whole, the book challenges established perspectives of climate change adaptation by taking into account issues of cultural diversity, environmental justice and human rights, as well as feminist or intersectional approaches. This innovative approach allows for analyses of the new configurations of knowledge and power that are evolving in the name of climate change adaptation. This volume will be of great interest to students and scholars of climate change, environmental law and policy, and environmental sociology, and to policymakers and practitioners working in the field of climate change adaptation.

The Political Economy of Climate Change Adaptation May 27 2022 Drawing on concepts in political economy, political ecology, justice theory, and critical development studies, the authors offer the first comprehensive, systematic exploration of the ways in which adaptation projects can produce unintended, undesirable results. This work is on the Global Policy: Next Generation list of six key books for understanding the politics of global climate change.

Climate Change Adaptation in North America Nov 20 2021 This edited book responds to the need for a better understanding of how climate change affects North America and for the identification of processes, methods and tools that may help countries and communities to develop a more robust adaptive capacity. It showcases successful examples of how to manage the social, economic and environmental complexities posed by climate change. The book attempts to synthesize various branches of resilience and adaptation scholarship into a cohesive text that highlights field research and best practices that are shaping policy and practice in a wide geography from the coastal conditions of the Caribbean to the thawing landscape of the Arctic Circle.

Climate Change Adaptation in Developed Nations Mar 25 2022 It is now widely accepted that adaptation will be necessary if we are to manage the risks posed by climate change. What we know about adaptation, however, is limited. While there is a well established body of scholarship proposing assessment approaches and explaining concepts, few studies have examined if and how adaptation is taking place at a national or regional level.

Nature-Based Solutions to Climate Change Adaptation in Urban Areas Sep 06 2020 This open access book brings together research findings and experiences from science, policy and practice to highlight and debate the importance of nature-based solutions to climate change adaptation in urban areas. Emphasis is given to the potential of nature-based approaches to create multiple-benefits for society. The expert contributions present recommendations for creating synergies between ongoing policy processes, scientific programmes and practical implementation of climate change and nature conservation measures in global urban areas. Except where otherwise noted, this book is licensed under a Creative Commons Attribution 4.0 International License. To view a copy of this license, visit <http://creativecommons.org/licenses/by/4.0/>

Climate Change Modeling, Mitigation, and Adaptation Apr 25 2022 This title contains 25 invited chapters that present the most current thinking on the environmental mechanisms contributing to global climate change and explore scientifically grounded steps to reduce the buildup of greenhouse gases in the atmosphere.

Climate Change Adaptation Manual Jun 03 2020 Due to the lack of success in climate change mitigation efforts, the importance of adaptation is becoming more and more apparent and is now one of the main imperatives of international research and action. However, research on adaptation is mostly not directly applicable to adaptation policy or practice, leaving a gap between scientific results and practical advice for decision makers and planners. This book seeks to address this problem and bridge the gap and should provide readers with practical and applicable information on climate change adaptation. Following an introduction, the book is organised into four main sections, each reflecting an essential component in the adaptation process. Climate change adaptation is an emerging subject area and has gained increased political and academic attention within the last decade. Whereas most books in the field focus on adaptation in developing countries, this volume provides an examination of predominantly European policy and offers inter-disciplinary insight into cutting edge knowledge and lessons learnt in a relatively new field of implementation.

Climate Change Adaptation in Practice May 15 2021 Climate change adaptation is increasingly recognized as complementary part to climate change mitigation. Climate change affects sea level, the extent of flood prone areas and precipitation patterns among many others. To adapt to these changes, the tasks of municipalities and cities are to implement policies and strategies for changes in land use and coastal management as part of their future development. It is of vital importance to address the uncertainties of climate change scenarios when proposing adaptation measures that are socially viable and economically reasonable. The decision making process, promoted here, is based on scientific excellence as well on an integrated communication process. This book provides a comprehensive overview of key elements required for effective analysis and assessment of climate change impacts, economic cost-benefit analysis, communication processes and creation and transfer of knowledge, governance issues

and implementation of related policies. It describes the results achieved by the BaltCICA (<http://www.baltcica.org/>) project whose contributors come from the scientific and public administration communities. The regional cooperation has led to the implementation of climate change adaptation in several case studies. The BaltCICA project developed concepts, methodologies and tools for climate change adaptation that can be translated across other global regions. Scientists and students working on the development of climate change and adaptation strategies; public administrators in the related fields on local, regional and state level including environment, water management, civil defense; as well as professionals working with adaptation technologies, including engineering, technological solutions, urban planning agencies and construction, will value this innovative book.

Resilience Nov 28 2019 In *Resilience: The Science of Adaptation to Climate Change* leading experts analyze and question ongoing adaptation interventions. Contributions span different disciplinary perspectives, from law to engineering, and cover different regions from Africa to the Pacific. Chapters assess the need for adaptation, highlighting climate change impacts such as sea level rise, increases in temperature, changing hydrological variability, and threats to food security. The book then discusses the state of global legislation and means of tracking progress. It reviews ways to build resilience in a range of contexts— from the Arctic, to small island states, to urban areas, across food and energy systems. Critical tools for adaptation planning are highlighted - from social capital and ethics, to decision support systems, to innovative finance and risk transfer mechanisms. Controversies related to geoengineering and migration are also discussed. This book is an indispensable resource for scientists, practitioners, and policy makers working in climate change adaptation, sustainable development, ecosystem management, and urban planning. Provides a summary of tools and methods used in adaptation including recent innovations. Includes chapters from a diverse range of authors from academic institutions, humanitarian organizations, and the United Nations. Evaluates adaptation options, highlighting gaps in knowledge where further research or new tools are needed.

Climate Change Adaptation in Southeast Asia Jan 11 2021 This book highlights the current issues, challenges, and priorities for climate change adaptation in the ten member states of the Association of Southeast Asian Nations (ASEAN). The status of each country was prepared by a consortium of researchers in consultation with National Focal Points of the ASEAN Working Group on Climate Change (AWGCC). National documents on adaptation actions, including local scenario and priorities, were reviewed where available and supplemented with an assessment of scientific publications to identify vulnerable ecosystems and regions. Adaptation needs and priorities were determined through stakeholder consultation in the respective countries. This allows for local-level perspectives to be captured and brought to the attention of policy and decision-makers at the national and regional levels. An important lesson from this exercise is that universities and research institutions at the national level have a critical role to play in bridging the gap between science and policy in climate change adaptation. These institutions also have the capacity to continuously facilitate transfer of the best available science for advancing climate change adaptation at the local level.

Climate Change Adaptation Nov 01 2022 Climate change policy has typically emphasized mitigation, calling for reducing emissions and shifting away from fossil fuels. Yet while these efforts have floundered, floods, wildfires, droughts, and other disasters are becoming more frequent and potent. As the risks escalate, we must ask how to adapt to a changing climate. How might farmers modify their practices to maximize food security? Can coastal cities protect their infrastructure from rising seas? Are there strategic ways for developing countries to combine climate resilience with economic growth and poverty reduction? For people and societies around the world, these questions are not theoretical: adaptation is already underway. This book offers a concise overview of climate adaptation governance. In clear, accessible language, Lisa Dale describes key strategies that governments, communities, and the private sector are now deploying. She presents the theory and practice that underlie climate adaptation efforts at local and global scales, providing illuminating case studies that foreground the problems facing developing countries. Dale analyzes the effectiveness of a range of policy interventions, drawing out principles of good governance and discussing how practitioners can navigate complex tradeoffs. She emphasizes equity and inclusion, considering how climate adaptation policy can account for the needs of historically disadvantaged groups. Written for a wide audience, this book is an invaluable introduction for all readers interested in how societies can meet the challenges of an altered climate.

Environmental Sustainability and Climate Change Adaptation Strategies Jul 25 2019 The existence of the human race has created inevitable effects on our surrounding environment. To prevent further harm to the world's ecosystems, it becomes imperative to assess mankind's impact on and create sustainability initiatives to maintain the world's ecosystems. *Environmental Sustainability and Climate Change Adaptation Strategies* is a pivotal reference source for the latest scholarly material on the scientific, technical, and socio-economic factors related to climate change assessment. Providing a comprehensive overview of perspectives on sustainability protection of environmental resources, this book is ideally designed for policy makers, professionals, government officials, upper-level students, and academics interested in emerging research on climate change.

Climate Change Adaptation in Developed Nations Dec 30 2019 It is now widely accepted that adaptation will be necessary if we are to manage the risks posed by climate change. What we know about adaptation, however, is limited. While there is a well established body of scholarship proposing assessment approaches and explaining concepts, few studies have examined if and how adaptation is taking place at a national or regional level.

Action Research for Climate Change Adaptation Mar 01 2020 Governments all over the world are struggling with the question of how to adapt to climate change. They need information not only about the issue and its possible consequences, but also about feasible governance strategies and instruments to combat it. At the same time, scientists from different social disciplines are trying to understand the dynamics and peculiarities of the governance of climate change adaptation. This book demonstrates how action-oriented research methods can be used to satisfy the need for both policy-relevant information and scientific knowledge. Bringing together eight case studies that show inspiring practices of action research from around the world, including Australia, Denmark, Vietnam and the Netherlands, the book covers a rich variety of action-research applications, running from participatory observation to serious games and role-playing exercises. It explores many adaptation challenges, from flood-risk safety to heat stress and freshwater availability, and draws out valuable lessons about the conditions that make action research successful, demonstrating how scientific and academic knowledge can be used in a practical context to reach useful and applicable insights. The book will be of interest to scholars and students of climate change, environmental policy, politics and governance.

Adapting to Climate Change Jan 23 2022 A revelatory study of how climate change will affect individual economic decisions, and the broad impact of those choices. Selected by Publishers Weekly as one of its Top Ten books in Business and Economics for Spring 2021. It is all but certain that the next century will be hotter than any we've experienced before. Even if we get serious about fighting climate change, it's clear that we will need to adapt to the changes already underway in our environment. This book considers how individual economic choices in response to climate change will transform the larger economy. Using the tools of microeconomics, Matthew E. Kahn explores how decisions about where we live, how our food is grown, and where new business ventures choose to locate are impacted by

climate change. Kahn suggests new ways that big data can be deployed to ease energy or water shortages to aid agricultural operations and proposes informed policy changes related to public infrastructure, disaster relief, and real estate to nudge land use, transportation options, and business development in the right direction.

Adapting to Climate Change Feb 09 2021 Global climate change is one of the most important environmental issues facing the world today. The United Nations Framework Convention on Climate Change (FCCC) acknowledges the potential for global climate change to have major effects on the world economy. The work of the Intergovernmental Panel on Climate Change (IPCC) is focused on evaluating the scientific data on climate change and analyzing the potential responses to it. One of the primary issues in the global climate change debate is how to adapt to any change that might occur. The process of identifying adaptation measures and evaluating their effectiveness is the focus of this book. In dealing with climate change adaptation, the sequence of events in conducting these types of analyses can be generalized as follows: • Develop scenarios for the possible range of climate change, • Assess the vulnerability of various sectors of the national economy and infrastructure to climate change, and • Identify and evaluate measures in each sector to adapt to the climate change. It is this third step that is the subject of this book. In presenting this material, Chapter 1 gives an overview of the concept of climate change adaptation and the general principles guiding the conduct of analyses in this area. Chapters 2-7 give the results of evaluating climate change adaptation options in the agriculture, water resources, coastal resources, forest and ecosystems, fisheries, and human settlements sectors.

Successful Adaptation to Climate Change Aug 30 2022 What does successful adaptation look like? This is a question we are frequently asked by planners, policy makers and other professionals charged with the task of developing and implementing adaptation strategies. While adaptation is increasingly recognized as an important climate risk management strategy, and on-the-ground adaptation planning activity is becoming more common-place, there is no clear guidance as to what success would look like, what to aim for and how to judge progress. This edited volume makes significant progress toward unpacking the question of successful adaptation, offering both scientifically informed and practice-relevant answers from various sectors and regions of the world. It brings together 18 chapters from leading experts within the field to present careful analyses of different cases and situations, questioning throughout commonly avowed truisms and unspoken assumptions that have pervaded climate adaptation science and practice to date. This book offers not one answer but demonstrates how the question of success in important ways is normative and context specific. It identifies the various dimensions of success, such as economic, political, institutional, ecological, and social, explores the tensions between them, and compiles encouraging evidence that resolutions can be found. The book appraises how climatic and non-climatic stressors play a role, what role science does and can play in adaptation decision making, and how trade-offs and other concerns and priorities shape adaptation planning and implementation on the ground. This is timely interdisciplinary text sheds light on key issues that arise in on-the-ground adaptation to climate change. It bridges the gap between science and practical application of successful adaptation strategies and will be of interest to both students, academics and practitioners.

Climate Change, Hazards and Adaptation Options Sep 26 2019 This book addresses the issue of climate change risks and hazards holistically. Climate change adaptation aims at managing climate risks and hazards to an acceptable level, taking advantage of any positive opportunities that may arise. At the same time, developing suitable responses to hazards for communities and users of climate services is important in ensuring the success of adaptation measures. But despite this, knowledge about adaptation options, including possible actions that can be implemented to improve adaptation and reduce the impacts of climate change hazards, is still limited. Addressing this need, the book presents studies and research findings and offers a catalogue of potential adaptation options that can be explored. It also includes case studies providing illustrative and inspiring examples of how we can adapt to a changing climate.

Climate Adaptation Engineering Nov 08 2020 Climate Adaptation Engineering defines the measures taken to reduce vulnerability and increase the resiliency of built infrastructure. This includes enhancement of design standards, structural strengthening, utilisation of new materials, and changes to inspection and maintenance regimes, etc. The book examines the known effects and relationships of climate change variables on infrastructure and risk-management policies. Rich with case studies, this resource will enable engineers to develop a long-term, self-sustained assessment capacity and more effective risk-management strategies. The book's authors also take a long-term view, dealing with several aspects of climate change. The text has been written in a style accessible to technical and non-technical readers with a focus on practical decision outcomes. Provides climate scenarios and their likelihoods, hazard modelling (wind, flood, heatwaves, etc.), infrastructure vulnerability, resilience or exposure (likelihood and extent of damage) Introduces the key concepts needed to assess the risks, costs and benefits of future proofing infrastructures in a changing climate Includes case studies authored by experts from around the world

Implementing Climate Change Adaptation in Cities and Communities Jun 15 2021 This book analyzes how climate change adaptation can be implemented at the community, regional and national level. Featuring a variety of case studies, it illustrates strategies, initiatives and projects currently being implemented across the world. In addition to the challenges faced by communities, cities and regions seeking to cope with climate change phenomena like floods, droughts and other extreme events, the respective chapters cover topics such as the adaptive capacities of water management organizations, biodiversity conservation, and indigenous and climate change adaptation strategies. The book will appeal to a broad readership, from scholars to policymakers, interested in developing strategies for effectively addressing the impacts of climate change.