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You're overseeing a large-scale project, but you're not an engineering or construction specialist, and so you need an overview of the related sustainability concerns and processes. To introduce you to the main issues, experts from the fields of engineering, planning, public health, environmental design, architecture, and landscape architecture review current sustainable large-scale projects, the roles team members hold, and design approaches, including alternative development and financing structures. They also discuss the challenges and opportunities of sustainability within infrastructural systems, such as those for energy, water, and waste, so that you know what's possible. And best of all, they present here for the first time the Zofnass Environmental Evaluation Methodology guidelines, which will help you and your team improve infrastructure design, engineering, and construction.

"The climate and energy crisis requires a strong state to change the direction, speed and scale of innovation in world capitalism in order to create a bio-digital energy paradigm. Four states are possible contenders for catalyzing this survival governance; China, the EU, India and the US. China is an improbable leader, but less improbable than the other three. No US President can close down the fossil fuel industry in time. The US state, worried about the slippage of its technological superiority, is turning to regulatory mechanisms like intellectual property to slow China's technological development. China will have to manage the risk of a US bent on military primacy. China is urbanizing innovation on a historically unprecedented scale. Lying at the heart of the bio-digital energy paradigm is a global city-based network of innovation. China, more than the other three states, is scaling technology innovation through the building of

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experimental cities such as eco-cities, hydrogen cities, forest cities, and sponge cities. The Belt and Road initiative will take this innovation well outside of China's borders. China could help to place cities into a new relationship with their surrounding ecosystems. Drawing on more than 250 interviews, carried out in 17 countries, including the world's largest four carbon emitters, the book shows how cities and their networks represent the best chance for growing climate survival governance for the twenty first century"--

The author examines the two most advanced eco-city projects: the Sino-Singapore Tianjin Eco-City in China, and Masdar City in Abu Dhabi. These are the most notable attempts at building new eco-cities to both face up to the 'crises' of the modern world and to use the city as an engine for transition to a low-carbon economy.

Launched in May 2011, the new global magazine Southern Innovator is about the people across the global South shaping our new world, eradicating poverty and working towards the achievement of the Millennium Development Goals (MDGs). They are the innovators. Issue 1 covered the theme of mobile phones and information technology. Issue 2 covered the theme of youth and entrepreneurship. Issue 3 covered the theme of agribusiness and food security. Issue 4 covers the theme of cities and urbanization.

Addresses the multi-disciplinary aspects of urban planning, a result of the increasing size of cities, the amount of resources and services required and the complexity of modern society. Innovative tools are required for identifying the high complexity of contemporary cities. It is necessary to provide a more scientific approach to urban studies, inspired by Prigogine's theories of dissipative structures, and to highlight relations between different systems and between systems and the environment. The challenge of placing sustainable contemporary

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cities lies in considering the dynamics of urban systems, exchange of energy and matter and the function and maintenance of ordered structures directly or indirectly supplied and maintained by natural systems. The task of researchers, aware of the complexity of the contemporary city, is to increase the capacity to manage human activities pursuing welfare and prosperity in sustainable cities.

Urban Ecology: An Introduction seeks to open the reader's mind and eyes to the way in which nature permeates everyday urban living, and how it has to be understood, cared for, and managed in order to make our towns and cities healthier places to visit and in which to live and work. The authors examine how nature can improve our physical and mental health, the air we breathe and the waters we use, as well as boosting our enjoyment of parks and gardens.

Urban Ecology sets out the science that underlies the changing natural scene and the tools used to ensure that cities become both capable of adapting to climate change and more beautiful and resilient. The book begins with a discussion of the nature of urban places and the role of nature in towns and cities. Part 1 looks at the context and content of urban ecology, its relationship to other foci of interest within ecology and other environmental sciences, and the character of city landscapes and ecosystems. In Part 2 the authors set out the physical and chemical components of urban ecosystems and ecological processes, including urban weather and climate, urban geomorphology and soils, urban hydrology and urban biogeochemical cycles. In Part 3 urban habitats, urban flora and fauna, and the effects of, deliberate and inadvertent human action on urban biota are examined. Part 4 contains an exploration of the identification and assessment of ecosystem services in urban areas, emphasising economic evaluation, the importance of urban nature for human health and well-being, and restoration

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ecology and creative conservation. Finally, in Part 5 the tasks for urban ecologists in optimising and sustaining urban ecosystems, providing for nature in cities, adapting to climate change and in developing the urban future in a more sustainable manner are set out. Within the 16 chapters of the book – in which examples from around the world are drawn upon - the authors explore current practice and future alternatives, set out procedures for ecological assessment and evaluation, suggest student activities and discussion topics, provide recommended reading and an extensive bibliography. The book contains more than 150 tables and over 150 photographs and diagrams.

This book contains the proceedings of the sixth conferences on the topic of sustainable regional development organized by the Wessex Institute of Technology. First held in 2003, the conference facilitates communication between all scientists specialising in the wide range of subjects included within sustainable development and planning. These include planners, environmentalists, architects, engineers, policy makers and economists, who all must work together in order to ensure that planning leads to sustainable development that meets present needs without compromising our future. The papers included in the book cover Regional planning; City planning; Sustainability and the built environment; Cultural heritage; Environmental management; Resources management; Social and political issues; Rural developments; Sustainable solutions in developing countries; Transportation; Energy resources; Environmental economics.

This book explores China's eco-development strategies and practices from a multi-scalar perspective, discussing the importance of interplay between multi spatial levels of the built environment, as well as the stakeholders who are key players for China's eco-development.

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Based on a selection of eco-development Chinese case studies - eco-city, eco-community and eco-building - it highlights how specific eco initiatives and green features are applied and practiced, offering a guide to China's strategy directions and design and planning trends. The book identifies gaps and strategies and solutions for future eco-development expected to take place in China in the coming decades, as well as useful references for eco-development in other countries, and provides a useful resource for studies in the fields of urbanism, sustainable development and eco-design.

Australia's Unintended Cities identifies and researches housing and housing-related urban outcomes that are unintended consequences of other policies, the structure of incentives and disincentives for the housing market, and governance arrangements for metropolitan areas and planning and service delivery. It is argued that unintended consequences have a greater impact on the housing market and Australia's cities and their future than policies directly concerned with housing, urban policy and metropolitan strategic planning. The book will inform policy makers, including government officials, consultants and politicians. It will also be used by academics and students in various areas of urban policy, such as housing and urban planning, as well as environment, public policy and economics.

This book is in part a response to the attempts of governments to address increasing concerns over such environmental issues as the impact of climate change; carbon emissions; pressures from overpopulation of cities; coal seam gas extraction and depleting natural resources. The authors have developed a Sustainable Communities Framework (SCF) which incorporates social-cultural, environmental and economic sustainability principles in the process of urban planning. The authors propose a five-step SCF built on an application of sustainability tables.

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The book examines a wide range of urban planning practices utilizing sustainability criteria, outlining both qualitative and quantitative tools. Separate chapters discuss application of the SCF to both the natural environment and the built environment. This framework is applied to a case study of the outer Sydney growth area of Wyong Shire, Central Coast, NSW, Australia. Addressing the question of how best to measure the environment, the authors present a table for selecting indicators of sustainability, and outline sustainability scorecards which use color-coded ratings of green, red and amber to measure indicators of sustainability. The authors show how aggregating these ratings allows the framework to be scaled up for application to larger areas. Finally, the authors show how scorecards can be incorporated in sustainability reports, with actions and monitoring components. The authors also examine urban planning education including land use planning, natural resource planning and sustainable urban planning, focusing on the extent to which schools incorporate principles of sustainability. The authors offer their critique on the movement of planning practices towards a more coordinated and holistic framework, in incorporating sustainability principles. *Sustainable Communities: A Framework for Planning* concludes by drawing a future scenario on the application of the SCF to incorporate principles of sustainability into urban planning. The authors propose future options for SCF applications, including adopting a systems program; environmental performance monitoring and showing how the framework will accommodate the social-cultural and economic components of sustainability, in addition to the environmental ones as examined in the case study.

A presentation of detailed comparative research into the implementation in 11 European countries of Local Agenda 21 - the action plan for sustainable development at community level.

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Overviews of implementation in each country are accompanied by analysis of positive and negative changes, as well as a comparative analysis with high academic and policy relevance. Numerous practical examples are included of best cases and crucial barriers.

"In the face of the most perilous challenges of our time--climate change, terrorism, poverty, and trafficking of drugs, guns, and people--the nations of the world seem paralyzed. The problems are too big for governments to deal with. Benjamin Barber contends that cities, and the mayors who run them, can do and are doing a better job than nations. He cites the unique qualities cities worldwide share: pragmatism, civic trust, participation, indifference to borders and sovereignty, and a democratic penchant for networking, creativity, innovation, and cooperation. He demonstrates how city mayors, singly and jointly, are responding to transnational problems more effectively than nation-states mired in ideological infighting and sovereign rivalries. The book features profiles of a dozen mayors around the world, making a persuasive case that the city is democracy's best hope in a globalizing world, and that great mayors are already proving that this is so"--

A small city's big vision that can help transform your own community. We all want a sustainable future, but what does it look like, and how do we get there? In Ithaca, NY a new culture is blossoming--one that values cooperation, local production, environmental stewardship, social justice and creativity. Ithaca is showing the way to meet the challenges of the day with a wide variety of practical, real-world solutions. Filled with inspiring examples, *Choosing a Sustainable Future* provides readers with a remarkable sense of possibility. Explore Ithaca's: bustling, vibrant farmers markets, overflowing with fresh, local produce award-winning community credit union that triples the savings of low-income people flagship college sustainability programs

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pioneering alternative transportation programs, such as Ithaca Carshare innovative efforts by coalitions of local business, university, government and activists to create transformation in areas as diverse as green building, city planning, health and wellness, and honoring cultural diversity. Taken together, these examples of citizen engagement are a taste of what life could be like in a sustainable city of the future. In a time of overwhelming economic, social and environmental crises, *Choosing a Sustainable Future* provides a quiet, authoritative voice of hope.

"Matthew Stein's comprehensive guide to sustainable living skills gives you the tools you need to fend for yourself and your family in times of emergency or disaster. It also goes a step further, giving sound instructions on how to become self-reliant in seemingly stable times and for the long term by adopting a sustainable lifestyle"--Cover, p. 4.

Storms, floods, fires, tsunamis, earthquakes, tornadoes, and other disasters seem not only more frequent but also closer to home. As the world faces this onslaught, we have placed our faith in "sustainable development," which promises that we can survive and even thrive in the face of climate change and other risks. Yet while claiming to "go green," we have instead created new risks, continued to degrade nature, and failed to halt global warming. *Unnatural Disasters* offers a new perspective on our most pressing environmental and social challenges, revealing the gaps between abstract concepts like sustainability, resilience, and innovation and the real-world experiences of people living at risk. Gonzalo Lizarralde explains how the causes of disasters are not natural but all too human: inequality, segregation, marginalization, colonialism, neoliberalism, racism, and unrestrained capitalism. He tells the stories of Latin American migrants, Haitian earthquake survivors, Canadian climate activists, African slum

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dwellers, and other people resisting social and environmental injustices around the world. Lizarralde shows that most reconstruction and risk-reduction efforts exacerbate social inequalities. Some responses do produce meaningful changes, but they are rarely the ones powerful leaders have in mind. This book reveals how disasters have become both the causes and consequences of today's most urgent challenges and proposes achievable solutions to save a planet at risk, emphasizing the power citizens hold to change the current state of affairs.

In a global context, understanding and engaging with Indigenous Peoples and understanding their contemporary values is becoming increasingly relevant. This book offers a major insight into Australian Indigenous Peoples' perspectives on the built environment. Enriched with thoughtful Indigenous voices from across Australia, echoed with several pre-eminent non-Indigenous practitioner voices, the book discusses the value of Indigenous Knowledge Systems in the Australian built environment and landscapes. It provides their perspective of wanting to share, of wanting to be heard, and of wishing to journey into our future landscapes and environments sympathetically and sustainably; of wanting to mutually share this journey respectfully to the betterment of humanity and these landscapes. A major resource for all academics, students and practitioners in the built environment sector, internationally, and not just in Australia, the book embodies issues confronting Indigenous Peoples and their communities, and their concerns about the future of their custodial landscapes. The book's national significance has already been identified by the Australian Institute of Landscape Architects (AILA) through its inclusion in their 'Connection to Country: Case Studies'. *Grappling with Societies and Institutions in an Era of Socio-Ecological Crisis* is an

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autobiographical ethnography of the journey through various societies and institutions and how they function in the midst of an era of socio-ecological crises. The volume traces the steps of the author in becoming a radical anthropologist, namely through the experience of immigration and naturalization from Peru to the United States and then to Australia, politicization while working as an engineer in the aircraft industry during the late 1960s, socialization in and subsequent exit from Roman Catholicism, and experiences as an academic working in the corporate university. As well, the author illuminates the practices of research and engagement as a scholar-activist on various topics, such as the Levites of Utah and African American Spiritual churches, socio-political and religious life in East Germany, complementary and alternative medicine, the Australian climate movement, and democratic eco-socialism. Most of the world's population now lives in cities. So if we are to address the problems of environmental deterioration and peak oil adequately, the city has to be a major focus of attention. EcoCities is about re-building cities and towns based on ecological principles for the long term sustainability, cultural vitality and health of the Earth's biosphere. Unique in the literature is the book's insight that the form of the city really matters-and that it is within our ability to change it, and crucial that we do. Further, that the ecocity within its bioregion is comprehensible and do-able, and can produce a healthy and potentially happy future. EcoCities describes the place of the city in evolution, nature and history. It pays special attention to the key question of accessibility and transportation, and outlines design principles for the ecocity. The reader is encouraged to plunge in to its economics and politics: the kinds of businesses, planning and leadership required. The book then outlines the tools by which a gradual transition to the ecocity could be accomplished. Throughout, this new edition is

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generously illustrated with the author's own inspired visions of what such rebuilt cities might actually look like.

The current literature compartmentalizes the complex issue of water and wastewater into its discrete components; technology, planning, policy, construction, economics, etc. Considered from the perspective of sustainability, however, water in the urban environment must be approached as a single resource that can be continuously reused and recycled. This book will be the first to capture all of the current work on this idea in a single, integrated, plan for designing the water-centric cities of the future. From new construction to the retrofitting of existing systems, this book presents the case for a new urban relationship to water, one with a more sustainable connection to the environment and the hydrological cycle. Through case studies of successfully planned and built systems around the world, the book will educate the reader about the need for a new approach to urban water management, and make the case that these changes are not only possible but imperative.

This book offers an extended case study of the urban community of Bushwick, located in the Brooklyn borough of New York City. The authors begin with a broad review of the history of Bushwick and Brooklyn, from before the earliest European settlements of the 1600s, through the 18th and 19th centuries and up the 1960s. Chapter Two begins by tracing the steep decline of the community, which culminated in catastrophic fires and looting in the wake of New York's electrical blackout of 1977 and goes on to describe the beginnings of urban planning and renewal efforts which launched the recovery of Bushwick in the 1980s to early 2000s. Chapter Three steps back from the immediacy of the community to discuss urban change from a theoretical perspective. The authors outline advances in 'sustainable urban

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planning' and describe how these apply to Bushwick and the wider Brooklyn community. Chapter Four offers a detailed examination of the intent and function of New York's community board planning system, known as the Charter 197-a program. In Chapter Five the authors examine the 197-a planning process and its application in the areas of Bushwick, Williamsburg and Greenpoint in Northeast Brooklyn; Brooklyn Downtown and in Southeast Brooklyn including Coney Island. The following chapter examines a number of innovative Bushwick high schools that offer practical experience in urban planning. Drawing the urban planning experiences together, the book concludes with a look at future directions in city renewal. Emphasis here is placed on 'sustainable urban planning' and the lessons to be learned from the experience of Bushwick and Brooklyn. The specifics of urban planning and renewal are illustrated with tables and figures. The details of planning are informed by an overarching sense of history, beginning with the dedication of the book to the memory of six Universalist writers associated with New York: Henry Thoreau, Helena Blavatsky, Henry George, Henry Miller, Arthur Miller and Walt Whitman. A rich trove of historical materials, ranging from family sketches to school rosters to rarely seen photographs, helps to keep the survey and analysis of urban planning grounded in the lives of Bushwick's residents, past, present and future. Development Challenges, South-South Solutions is the monthly e-newsletter of the United Nations Office for South-South Cooperation in UNDP (www.southerninnovator.org). It has been published every month since 2006. Its sister publication, Southern Innovator magazine, has been published since 2011.

This volume introduces and discusses the achievements and mechanisms of urban planning and construction in China from multiple professional perspectives, covering practices and

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processes ranging from ancient times to the present day. The book has 14 chapters, each addressing a specific Chinese urban planning and construction topic with examples and applications in various cities and regions, and each providing an all-around analysis of Chinese urban development issues at different scales, including government administrations, planning progresses, urban investments, social impacts and construction models. The book provides a comprehensive overview of urban planning and construction in China, especially its successful experiences in the historical period and modern era, which will greatly benefit scholars and readers who are interested in China, as well as urban planners, architects and historians. The book is organized into 4 main parts. Part 1 focuses on "historical wisdom" to summarize ancient Chinese efforts to cope with nature and the environment. It interprets the unique wisdom of ancient Chinese cities related to regional design, water conservancy system, and urban districts. Part 2 presents the "transformation" of urban planning in China by learning from both the traditional value and western experiences based on several cases, such as the spatial development of Beijing and the Beijing-Tianjin-Hebei capital region, the preservation of Qingdao city, the urban community development and regeneration in Chongqing city. Part 3 explores the "green and eco-city" by looking towards the future, illustrating Chinese practices and efforts to build more sustainable cities, such as green and low-carbon city construction in Wuhan, healthy city planning and eco-cities construction in China. Part 4 prospects the "modern miracles" brought forth by technological innovation and economic growth, and introduces the newest planning trends in China, such as the E-commerce Taobao villages in China and the innovation districts in Beijing. It also explains the driving force of the "growth machine" of Suzhou city.

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Over the last two decades the concept and practice of Local Economic Development (LED) has gained widespread acceptance around the world as a locally-based response to the challenges posed by globalization, devolution, local-level opportunities, and economic crises. Support for local economic development is now firmly on the agenda of many national governments and key international agencies. This volume examines the debates about Local Economic Development and examines some of the unfolding experiences of LED in the developing world. The focus is upon the region of southern Africa, and more especially upon post-apartheid South Africa. LED emerged in South Africa as one of the more significant post-apartheid development options being pursued by empowered localities with the overt encouragement of national government. Elsewhere in the developing world, much interest surrounds the experience of LED in post-apartheid South Africa, which is seen as a laboratory for experimentation, innovation, and learning. The seventeen chapters in this book examine the range of LED interventions that have been the basis for experimentation in the last decade, including both pro-market as well as pro-poor interventions. Key themes include debates about the most appropriate policy directions for LED, its contribution towards sustainable development, the role of social capital, cluster support, public procurement, eco-development, good governance and tourism-led LED. The book also contains a series of detailed case studies on the implementation of LED in South Africa and the wider region of southern Africa, including analyses of LED undertaken at a variety of scales from the provincial, metropolitan, and small-town level. Until now, most research on local economic development has focused on the developed world. This volume breaks new ground in applying LED policy and practices to problems specific to the developing world. It will be of interest to scholars of development

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studies, urban and regional planning, human geography, and urban studies. "This compelling and comprehensive book provides a look at the innovative (including pro-poor) local economic development strategies being used in South Africa. The contributors [to *Local Economic Development in the Changing World: The Experience of Southern Africa*] are among the very best scholars in the field." -Gary Gaile, University of Colorado "Etienne Nel and Christian Rogerson have produced an excellent book on local economic development in South Africa. The chapters in this timely volume contain many valuable lessons for both the developing and the developed world. Of particular importance is the policy focus of Nel and Rogerson on investing in and empowering low-income workers, entrepreneurs, families, and neighborhoods. Because of the special emphasis on inclusive economic development strategies, this book is a very useful guide to what the Prague Institute calls "Treating People and Communities as Assets." -Dr. Marc A. Weiss, Chairman and CEO, Prague Institute for Global Urban Development Etienne Nel is associate professor in the Department of Geography of Rhodes University, Grahamstown, South Africa. Christian M. Rogerson is professor of human geography, School of Geography, Archaeology, and Environmental Studies, University of Witwatersrand, Johannesburg.

Come venture into the fascinating world of South Africa's natural heritage e" national parks and game reserves that rival any in Africa, scenic botanical gardens, and wildlife research programs.

This book introduces the concept of Eco-civilization, highlights the construction and development of eco-cities in China, and assesses the achievements and shortcomings of China's eco-city construction projects. As both China and Western countries face an

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impending ecological crisis, responding to that crisis is a common challenge for all human beings. There is an overwhelming consensus among Chinese scholars that in order to successfully address the ecological crisis successfully we must establish an eco-civilization, and one important step toward accomplishing that goal is to plan and construct eco-cities. Nature Based Strategies for Urban and Building Sustainability reviews the current state-of-the-art on the topic. In the introduction, the editors review the fundamental concepts of nature elements in the built environment, along with the strategies that are necessary for their inclusion in buildings and cities. Part One describes strategies for the urban environment, discussing urban ecosystems and ecosystem services, while Part Two covers strategies and technologies, including vertical greening systems, green roofs and green streets. Part Three covers the quantitative benefits, results, and issues and challenges, including energy performances and outdoor comfort, air quality improvement, acoustic performance, water management and biodiversity. Provides an overview of the different strategies available to integrate nature in the built environment Presents the current state of technology concerning systems and methodologies on how to incorporate nature in buildings and cities Features the latest research results on operation and ecosystem services Covers both established and new designs, including those still in the experimental stage

A political scientist and an urban architect explore China's odyssey to become an ecological civilization and transform its massive, unsustainable, urbanization process into one that creates hundreds of eco-cities. The resulting From Eco-Cities to Sustainable City-Regions is the first book-length study combining analysis of politics and power, urban design and planning issues derived from the co-authors' interdisciplinary research, and on-site fieldwork from their

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political science and architectural area specialties.

The book addresses the sustainability of cities in the context of sustainability science and its application to the city boundary. In doing so it investigates all the components of a city on the basis of sustainability criteria. To achieve sustainability it is essential to adopt an integrated strategy that reflects all sectors within the city boundary and also address the four key normative concepts: the right to develop for all sections, social inclusion, convergence in living standards and shared responsibility and opportunities among sectors and sections. In this book, the individual chapters examine the nodes of sustainability of a city and thus essentially present a large canvas wherein all sustainability-relevant issues are interwoven. This integrative approach is at the heart of the book and offers an extensive, innovative framework for future research on cities and sustainability alike. The book also includes selected case studies that add to the reading and comprehension value of the concepts presented, ensuring a blend of theory and practical case studies to help readers better comprehend the principle of sustainability and its application.

Between 2004 and 2009, university educators, practicing scientists, museum and science-centre personnel, historians, and K-12 teachers in Canada's eastern Atlantic provinces came together as a research community to investigate informal learning in science, technology, and mathematics. The interdisciplinary collaboration, known as CRYSTAL Atlantique, was sponsored by Canada's National Science and Engineering Research Council. In this volume, the CRYSTAL participants look back on their collective experience and describe

research projects that pushed the boundaries of informal teaching and learning. Those projects include encounters between students and practicing scientists in university laboratories and field studies; summer camps for science engagement; after-school science clubs for teachers and students; innovative software for computer assisted learning; environmental problem-solving in a comparative, international context; online communities devoted to solving mathematical problems; and explorations of ethnomathematics among Canadian aboriginal peoples. The editors and contributors stress the need for research on informal learning to be informed continuously by a notion of science as culture, and they analyze the forms of resistance that studies of informal learning frequently encounter. Above all, they urge a more central place for informal science learning in the larger agenda of educational research today.

Ecocities Now Building the Bridge to Socially Just and Ecologically Sustainable Cities Springer Nature From Eco-Cities to Sustainable City-Regions China's Uncertain Quest for an Ecological Civilization Edward Elgar Publishing
Covering the ancient period through to the 21st century, this book examines how landscapes have changed across East Asia over time. Featuring examples of a variety of landscapes, from the riverine and agricultural to the urban and aesthetic, this book thus presents a comprehensive review of East Asian

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environmental history. The eleven chapters, written by an international team of leading scholars, provide analysis of a wide range of spatial, temporal, and thematic considerations. Seeking to use the concept of landscape to evaluate the opportunities and constraints faced by East Asian communities, it also explores the relationship between landscape transformation and human agency. In so doing, it aims to survey the current methodology and scholarship in the field and demonstrate a new approach which encompasses socio-economic and cultural history, as well as GIS-based geographical studies. Providing an in-depth examination of landscape change across the sub-regions of China and Japan, this book will be useful to students and scholars of Asian History and Environmental Studies.

A comprehensive and diverse, award-winning collection of biographies of the most important figures in American environmentalism. As our environment changes, and environmental concerns become more and more prevalent, this encyclopedia provides much-needed information on the key players in the environmental movement.

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