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The problems related to the process of industrialisation such as biodiversity depletion, climate change and a worsening of health and living conditions, especially but not only in developing countries, intensify. Therefore, there is an increasing need to search for integrated solutions to make development more sustainable. The United Nations has acknowledged the problem and approved the "2030 Agenda

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for Sustainable Development". On 1st January 2016, the 17 Sustainable Development Goals (SDGs) of the Agenda officially came into force. These goals cover the three dimensions of sustainable development: economic growth, social inclusion and environmental protection. The Encyclopedia of the UN Sustainable Development Goals comprehensively addresses the SDGs in an integrated way. The Encyclopedia encompasses 17 volumes, each one devoted to one of the 17 SDGs. This volume addresses SDG 11, named "Make cities and human settlements inclusive, safe, resilient and sustainable" and contains the description of a range of terms, which allows a better understanding and fosters knowledge. This book presents a set of papers on the stat

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the art of knowledge and practices about the numerous challenges for cities, solutions and opportunities for the future. Concretely, the defined targets are: Ensure access for all to adequate, safe and affordable housing and basic services and upgrade slums Provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons Enhance inclusive and sustainable urbanization and capacity for participatory, integrated and sustainable human settlement planning and management in all countries Strengthen efforts to protect and safeguard the world's cultural and natural

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heritage Significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters with a focus on protecting the poor and people in vulnerable situations Reduce the adverse per capita environmental impacts of cities, including by paying special attention to air quality and municipal and other waste management Provide universal access to safe, inclusive and accessible, green and public spaces, in particular for women and children, older persons and persons with disabilities Support positive economic, social and environmental links between urban, peri-urban and rural areas by strengthening national and regional development

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planning Substantially increase the number of cities and human settlements adopting and implementing integrated policies and plans towards inclusion, resource efficiency, mitigation and adaptation to climate change, resilience to disasters, and develop and implement, in line with the Sendai Framework for Disaster Risk Reduction 2015–2030, holistic disaster risk management at all levels Support least developed countries, including through financial and technical assistance, in building sustainable and resilient buildings utilizing local materials Editorial Board Samuel Borges Barbosa, Luciana Londero Brandli, Elisa Conticelli, Erin A. Hopkins, Olga Kuznetsova, Astrid Skjerven, Hari Srinivas Human activities as well as various natural phenomena

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change the environment and impact on the quality of life. Analysis of those dynamics is required for a better understanding of urban modifications, and to facilitate urban growth and development. Research related to the management of urban data has a long tradition. Through the years a variety of challenging research questions has been investigated related to the collection, storage, use and visualisation of the data representing the urban phenomena in a computer-based environment. The role of the citizens and their wellbeing has become a critical aspect in all research and development activities. Since 1971, the Urban Data Management Society (UDMS) has organized international symposia across Europe to promote the development of information systems at a l

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government level. Initially, the focus of these symposia was mostly on urban applications, but both regional and rural issues have grown in importance over the years. Nowadays an important aim of UDMS is to provide a forum for people to discuss new approaches, to consider new technologies, and to share practical experiences in the field of urban data management. This book contains a selection of the best 19 of 42 full papers that were submitted for UDMS 2011. The topics covered represent current trends in urban and regional data management. Urban and Regional Data Management 2011 is divided in four parts: (1) 3D modeling and applications; (2) Data management for local government; (3) Environmental monitoring and assessment; (4) Remote

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sensing for urban applications, and will prove to be a useful source of information for urban, regional and rural data-related professionals, such as scholars, GIS engineers, geomatic professionals, photogrammetrists, land surveyors, mapping specialists, urban planners and researchers, as well as for postgraduate students and lecturers.

Festschrift volume to Prem Shanker Dubey, b. 1942, Indian botanist and chairman of Pollution Control Board, Bhopal; contributed articles.

To assess urban sustainability performance, this book explores several clusters of cities, including megacities, cities of the Global South, European and North American cities, cities of the Middle East and North Africa, cities of Central and South

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East Asia, a city state of Singapore and a large group of global cities. It applies a multi-criteria approach using a panel of environmental, economic, social and smart indicators to assess progress and policies in global cities including London, New York, Hong Kong, San Francisco, Los Angeles, São Paulo, Rio de Janeiro, Buenos Aires, Paris, Berlin, Stockholm, Moscow, Beijing, Seoul, Singapore, Shanghai, Sydney, Tokyo and many others. Additional attention is given to the issues of climate change, poverty and smart dimensions, with renewable energy and the drivers of urban CO2 emissions playing the central role. This book is abundant with case studies considering strategies, policies and performance of the leading cities, including San Francisco, Stockholm and Seoul.

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in greater depth, exploring how their successes can be used in other cities. The book identifies key linkages between different smart and sustainability dimensions as well as investment opportunities in cities with sustainability potential. This book will be of great interest to policy makers, city and regional authorities as well as scholars and students of urban planning and sustainable development aiming to facilitate a sustainability transition in our cities around the world.

Urban Regeneration and Sustainability

Peri-urban futures: Scenarios and models for land use change in Europe

Netzstadt

Visions, Scenarios and Models for the Mutant City of

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Tomorrow

Sustainable Architecture and Urbanism

Sustainability Assessment of Urban Systems

Developments in Engineering Geology

Presently, peri-urbanisation is one of the most pervasive processes of land use change in Europe with strong impacts on both the environment and quality of life. It is a matter of great urgency to determine strategies and tools in support of sustainable development. The book synthesizes the results of PLUREL, a large European Commission funded research

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project (2007-2010). Tools and strategies of PLUREL address main challenges of managing land use in peri-urban areas. These results are presented and illustrated by means of 7 case studies which are at the core of the book. This volume presents a novel, future oriented approach to the planning and management of peri-urban areas with a main focus on scenarios and sustainability impact analysis. The research is unique in that it focuses on the future by linking quantitative scenario modeling and sustainability impact analysis

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with qualitative and in-depth analysis of regional strategies, as well as including a study at European level with case study work also involving a Chinese case study.

This open access book is the first to systematically introduce the principles of urban informatics and its application to every aspect of the city that involves its functioning, control, management, and future planning. It introduces new models and tools being developed to understand and implement these technologies that enable cities to

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function more efficiently – to become ‘smart’ and ‘sustainable’. The smart city has quickly emerged as computers have become ever smaller to the point where they can be embedded into the very fabric of the city, as well as being central to new ways in which the population can communicate and act. When cities are wired in this way, they have the potential to become sentient and responsive, generating massive streams of ‘big’ data in real time as well as providing immense opportunities for extracting new forms of

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urban data through crowdsourcing. This book offers a comprehensive review of the methods that form the core of urban informatics from various kinds of urban remote sensing to new approaches to machine learning and statistical modelling. It provides a detailed technical introduction to the wide array of tools information scientists need to develop the key urban analytics that are fundamental to learning about the smart city, and it outlines ways in which these tools can be used to inform design and policy so that cities

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can become more efficient with a greater concern for environment and equity.

This book addresses the future of urbanisation on the Galapagos Islands from a systems, governance and design perspective with the competing parameters of liveability, economic and ecological, using the Galapagos as a laboratory for the theoretical and postulative understanding of evolving settlement and habitation. The Galapagos islands are one of the world's most examined and reported examples of a series of naturally evolving

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ecosystems. The biodiversity of these island ecosystems are the focus of tourism and the image across the world yet human settlement are part of the local ecology. While human intervention is limited, the islands are a distinctive context in which to consider the impact of human habitation as a part of our ecosystems. In this book, authors take the framework of complex adaptive systems (CAS) in which to model systems that grow and evolve, the relations between these various sectors change; systems that get

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more complex as they evolve. Tested and applied discretely in the two realms of natural and urban, for the first time this text will bring the two together in understanding options for the future of urban settlements on the Galapagos Islands and, by extension, consider how the approach can be used globally in other contexts.

Global urbanization promises better services, stronger economies, and more connections; it also carries risks and unforeseeable consequences. To deepen our understanding

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of this complex process and its importance for global sustainability, we need to build interdisciplinary knowledge around a systems approach. Urban Planet takes an integrative look at our urban environment, bringing together scholars from a diverse range of disciplines: from sociology and political science to evolutionary biology, geography, economics and engineering. It includes the perspectives of often neglected voices: architects, journalists, artists and activists. The book provides a much needed cross-scale

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perspective, connecting challenges and solutions on a local scale with drivers and policy frameworks on a regional and global scale. The authors argue that to overcome the major challenges we are facing, we must embark on a large-scale reinvention of how we live together, grounded in inclusiveness and sustainability. This title is also available Open Access.

The Urban Condition

CORP 2011 Proceedings/Tagungsband

The Riviera, Exposed

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Innovation for Sustainable Development
Urban Engineering for Sustainability
Sustainable Mining Practices
New Urbanisms, New Citizens
This book will speak to the new human epoch, the Urban Age. A majority of humanity now lives for the first time in cities. The city, the highest invention of the modern age, is now the human heartland. And yet the same process that brought us the city and its wonders, modernisation, has also thrown up challenges and threats, especially climate change, resource depletion, social division

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and economic insecurity. This book considers how these threats are encountered and countered in the urban age, focusing on the issue of human knowledge and self-awareness, just as Hannah Arendt's influential *The Human Condition* did half a century ago. *The Human Condition* is now *The Urban Condition*. And it is this condition that will define human prospects in an age of default and risk. Gleeson expertly explores the concept through three main themes. The first is an exploration of what defines the current human condition, especially the expanding cities that are at the heart of an over-consumptive

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world economic order. The second exposes and reviews the reawakening of forms of knowledge ('naturalism') that are likely to worsen not improve our comprehension of the crisis. The new 'science of urbanism' in popular new literature exemplifies this dangerous trend. The third and last part of the book considers prospects for a new urban, and therefore human, dispensation, 'The Good City'. We must first journey in our urban vessels through troubled times. But can we now start to plot the way to new shores, to a safer, more resilient city that provides for human flourishing? The Urban Condition attempts

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this ideal, conceiving a new urbanism based on the old idea of self-limitation. The Urban Condition is an original, timely book that reconsiders and redeploys Arendt's famous notion of The Human Condition in an age of cities and risk. It brings together several important strands of human consideration, urbanisation, climate threat, resource depletion, economic default and critical knowledge and weaves them into a new analysis of the times. It also looks to a future that is nearly with us—of changed climate, resource scarcity and economic stress. The book journeys into these troubled times,

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proposing the idea of Lifeboat Cities as a way of thinking about the human journey to come

This book sets out some positive directions to move forward including government policy and regulatory options, an innovative GRID (Greening, Regenerative, Improvement Districts) scheme that can assist with funding and management, and the first steps towards an innovative carbon credit scheme for the built environment. Decarbonising cities is a global agenda with huge significance for the future of urban civilisation. Global demonstrations have

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shown that technology and design issues are largely solved. However, the mainstreaming of low carbon urban development, particularly at the precinct scale, currently lacks sufficient: standards for measuring carbon covering operational, embodied and transport emissions; assessment and decision-making tools to assist in design options; certifying processes for carbon neutrality within the built environment; and accreditation processes for enabling carbon credits to be generated from precinct-wide urban development. Numerous barriers are currently hindering greater adoption of high

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performance, low carbon developments, many of which relate to implementation and governance. How to enable and manage precinct-scale renewables and other low carbon technologies within an urban setting is a particular challenge.

Developments in Engineering Geology is a showcase of the diversity in the science and practice of engineering geology. All branches of geology are applicable to solving engineering problems and this presents a wide frontier of scientific opportunity to engineering geology. In practice, diversity represents a different set of challenges with

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the distinctive character of the profession derived from the crossover between the disciplines of geology and engineering. This book emphasizes the importance of understanding the geological science behind the engineering behaviour of a soil or rock. It also highlights a continuing expansion in the practice areas of engineering geology and illustrates how this is opening new frontiers to the profession thereby introducing new knowledge and technology across a range of applications. This is initiating an evolution in the way geology is modelled in engineering, geohazard and environmental

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studies in modern and traditional areas of engineering geology.

The discipline of Integrated Environmental Modelling (IEM) has developed in order to solve complex environmental problems, for example understanding the impacts of climate change on the physical environment. IEM provides methods to fuse or link models together, this in turn requires facilities to make models discoverable and also to make the outputs of modelling easily visualized. The vision and challenges for IEM going forward are summarized by leading proponents. Several case studies describe the application of

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model fusion to a range of real-world problems including integrating groundwater and recharge models within the UK Environment Agency, and the development of 'catastrophe' models to predict better the impact of natural hazards. Communicating modelling results to end users who are often not specialist modellers is also an emerging area of research addressed within the volume. Also included are papers that highlight current developments of the technology platforms underpinning model fusion.

Sustainability in Practice

Scaling Urban Environmental Challenges

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The Pavao-Pavaozinho and Cantagalo Case Study

Urban Informatics

Understanding Urban Metabolism

Transforming Urban Systems

Environmental Scenario for 21st Century

Today's most pressing challenges require behaviour change at many levels, from the city to the individual. This book focuses on the collective influences that can be seen to shape change. Exploring the underlying dimensions of behaviour change in terms of consumption, media, social innovation and urban systems, the essays

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in this book are from many disciplines, including architecture, urban design, industrial design and engineering, sociology, psychology, cultural studies, waste management and public policy. Aimed especially at designers and architects, Motivating Change explores the diversity of current approaches to change, and the multiple ways in which behaviour can be understood as an enactment of values and beliefs, standards and habitual practices in daily life, and more broadly in the urban environment.

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With majority of the Earth's people now urban dwellers, and cities being the most efficient habitat for the utilisation of resources, it is imperative that we continue to support standards of living and efficiencies of urban areas. However, the urbanisation process has not been without its problems. While much has been done to address the original issues surrounding the quality of urban life, new challenges continue to arise. It is no longer sustainable to achieve improvements by means that require greater and greater

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energy consumption as we did in the past. Despite their complexity, however, cities are a great laboratory for architects, engineers, and other key professionals to apply new ideas and new technology to meet our requirements for more sustainable city environments. Containing papers presented at the latest in a series of conferences organised by the Wessex Institute of Technology, these proceedings, split in to two volumes address not just environmental, architectural, and engineering concerns, but also quality of

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life, security, risk, and heritage. The diversity of topics and the case studies based on existing projects make the book an important contribution to the literature on urban planning.

Urban Climates is the first full synthesis of modern scientific and applied research on urban climates. The book begins with an outline of what constitutes an urban ecosystem. It develops a comprehensive terminology for the subject using scale and surface classification as key constructs. It explains the physical

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principles governing the creation of distinct urban climates, such as airflow around buildings, the heat island, precipitation modification and air pollution, and it then illustrates how this knowledge can be applied to moderate the undesirable consequences of urban development and help create more sustainable and resilient cities. With urban climate science now a fully-fledged field, this timely book fulfills the need to bring together the disparate parts of climate research on cities into a coherent

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framework. It is an ideal resource for students and researchers in fields such as climatology, urban hydrology, air quality, environmental engineering and urban design.

With Asia's cities undergoing unprecedented growth in the 21st century, lauded the 'urban century' by many, Sustainable Cities in Asia provides a timely examination of the challenges facing cities across the continent including some of the projects, approaches and solutions that are currently being

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tested. This book uses numerous case studies, analysing topical issues ranging from city cycling in India, to green spaces in China, to the use of community-led energy generation projects in post-Fukushima Japan. Containing contributions from an international team of scholars, it also takes a multi-disciplinary approach and draws on examples from a wide range of countries, including China, India, Japan, Korea, Taiwan, Singapore and the United Arab Emirates. Ultimately, by providing a comprehensive discussion of the broader

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debates around the shape of sustainable urbanism, it demonstrates that Asia is one of the most active regions in terms of the development of sustainable city strategies. Tackling the contemporary issues of key importance for sustainability, such as property markets, migration and transport, this book will appeal to students and scholars of Urban Geography, Sustainability, Environmental Studies and Asian studies.

Decarbonising Cities

Multidimensional Assessment and Smart

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Solutions

Cities

Transition to Sustainability in Complex Adaptive Systems

Knowledge towards Sustainable Cities

Smart Urban Development

Sustainable Cities Reimagined

Since the mid-1980s, and in particular the 1992 environmental summit in Rio de Janeiro, sustainability has become a global issue and the subject of international debate. In the context of architecture sustainability implies the use of

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intelligent technology, innovative construction methods, ecologically friendly materials and use of environmentally-friendly energy resources. This book begins with an overview of the various approaches and developments in sustainable architecture, followed by an in-depth section on urbanism looking at several European towns. In the third section the technologies, materials and methods of ecological architecture are examined. Concluding the volume are 23 sophisticated and innovative European case studies. The author and architect Dominique Gauzin-Müller has specialised

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on energy and environmental issues and ecological architecture for over 15 years.

Debates about the future of urban development in many countries have been increasingly influenced by discussions of smart cities. Despite numerous examples of this "urban labelling" phenomenon, we know surprisingly little about so-called smart cities. This book provides a preliminary critical discussion of some of the more important aspects of smart cities. Its primary focus is on the experience of some designated smart cities, with a view to problematizing a range of elements that

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supposedly characterize this new urban form. It also questions some of the underlying assumptions and contradictions hidden within the concept. There has been growing attention paid to urban agriculture worldwide because of its role in making cities more environmentally sustainable while also contributing to enhanced food access and social justice. This edited volume brings together current research and case studies concerning urban agriculture from both the Global North and the Global South. Its objective is to help bridge the long-standing divide between discussion of urban

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agriculture in the Global North and the Global South and to demonstrate that today there are greater areas of overlap than there are differences both theoretically and substantively, and that research in either area can help inform research in the other. The book covers the nature of urban agriculture and how it supports livelihoods, provides ecosystem services, and community development. It also considers urban agriculture and social capital, networks, and agro-biodiversity conservation. Concepts such as sustainability, resilience, adaptation and community, and the

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value of urban agriculture as a recreational resource are explored. It also examines, quite fundamentally, why people farm in the city and how urban agriculture can contribute to more sustainable cities in both the Global North and the Global South.

This book is intended to help explore the field of smart sustainable cities in its complexity, heterogeneity, and breadth, the many faces of a topical subject of major importance for the future that encompasses so much of modern urban life in an increasingly computerized and urbanized world.

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Indeed, sustainable urban development is currently at the center of debate in light of several ICT visions becoming achievable and deployable computing paradigms, and shaping the way cities will evolve in the future and thus tackle complex challenges. This book integrates computer science, data science, complexity science, sustainability science, system thinking, and urban planning and design. As such, it contains innovative computer-based and data-analytic research on smart sustainable cities as complex and dynamic systems. It provides applied theoretical

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contributions fostering a better understanding of such systems and the synergistic relationships between the underlying physical and informational landscapes. It offers contributions pertaining to the ongoing development of computer-based and data science technologies for the processing, analysis, management, modeling, and simulation of big and context data and the associated applicability to urban systems that will advance different aspects of sustainability. This book seeks to explicitly bring together the smart city and sustainable city endeavors, and to focus on big data analytics and

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context-aware computing specifically. In doing so, it amalgamates the design concepts and planning principles of sustainable urban forms with the novel applications of ICT of ubiquitous computing to primarily advance sustainability. Its strength lies in combining big data and context-aware technologies and their novel applications for the sheer purpose of harnessing and leveraging the disruptive and synergetic effects of ICT on forms of city planning that are required for future forms of sustainable development. This is because the effects of such technologies reinforce one another

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as to their efforts for transforming urban life in a sustainable way by integrating data-centric and context-aware solutions for enhancing urban systems and facilitating coordination among urban domains. This timely and comprehensive book is aimed at a wide audience across science, academia industry, and policymaking. It provides the necessary material to inform relevant research communities of the state-of-the-art research and the latest development in the area of smart sustainable urban development, as well as a valuable reference for planners, designers,

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strategists, and ICT experts who are working towards the development and implementation of smart sustainable cities based on big data analytics and context-aware computing.

Promoting Creative Urban Initiatives

Food Roofs of Rio de Janeiro

Integrated Environmental Modelling to Solve Real World Problems

An Ecohistory of Postwar Tourism and North African Labor

Sustainable Cities and Communities

Methods, Vision and Challenges

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Ecological Economics

This edited book explores and promotes reflection on how the lessons of Metabolism experience can inform current debate on city making and future practice in architectural design and urban planning. More than sixty years after the Metabolist manifesto was published, the author's original contributions highlight the persistent links between present and past that can help to re-imagine new urban futures as well as the design of innovative intra-urban relationships and spaces. The

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essays are written by experienced scholars and renowned academics from Japan, Australia, Europe, South Korea and the United States and expose Metabolism's special merits in promoting new urban models and evaluate the current legacy of its architectural projects and urban design lessons. They offer a critical, intellectual, and up-to-date account of the Metabolism projects and ideas with regard to the current evolution of architectural and urbanism discourse in a global context. The collection of cross-disciplinary contributions

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in this volume will be of great interest to architects, architectural and urban historians, as well as academics, scholars and students in built environment disciplines and Japanese cultural studies. A unified framework for analyzing urban sustainability in terms of cities' inflows and outflows of matter and energy. Urbanization and globalization have shaped the last hundred years. These two dominant trends are mutually reinforcing: globalization links countries through the networked communications of urban hubs. The urban

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population now generates more than eighty percent of global GDP. Cities account for enormous flows of energy and materials—inflows of goods and services and outflows of waste. Thus urban environmental management critically affects global sustainability. In this book, Paulo Ferrão and John Fernández offer a metabolic perspective on urban sustainability, viewing the city as a metabolism, in terms of its exchanges of matter and energy. Their book provides a roadmap to the strategies and tools needed for a scientifically based

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framework for analyzing and promoting the sustainability of urban systems. Using the concept of urban metabolism as a unifying framework, Ferrão and Fernandez describe a systems-oriented approach that establishes useful linkages among environmental, economic, social, and technical infrastructure issues. These linkages lead to an integrated information-intensive platform that enables ecologically informed urban planning. After establishing the theoretical background and describing the diversity of contributing disciplines, the

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authors sample sustainability approaches and tools, offer an extended study of the urban metabolism of Lisbon, and outline the challenges and opportunities in approaching urban sustainability in both developed and developing countries.

A sweeping social and environmental history, The Riviera, Exposed illuminates the profound changes to the physical space that we know as the quintessential European tourist destination. Stephen L. Harp uncovers the behind-the-scenes impact of tourism following World War II, both on the

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environment and on the people living and working on the Riviera, particularly North African laborers, who not only did much of the literal rebuilding of the Riviera but also suffered in that process. Outside of Paris, the Riviera has been the most visited region in France, depending almost exclusively on tourism as its economic lifeline. Until recently, we knew a great deal about the tourists but much less about the social and environmental impacts of their activities or about the life stories of the North African workers upon whom the Riviera's prosperity

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rests. The technologies embedded in roads, airports, hotels, water lines, sewers, beaches, and marinas all required human intervention—and travelers were encouraged to disregard this intervention. Harp's sharp analysis explores the impacts of massive construction and public works projects, revealing the invisible infrastructure of tourism, its environmental effects, and the immigrants who built the Riviera. The The Riviera, Exposed unearths a gritty history, one of human labor and ecological degradation that forms the true foundation

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of the glamorous Riviera of tourist mythology.

Think globally, act locally emphasizes the importance of scale in dealing with environmental challenges, but not how to factor it in. This major new book focuses on the spatial dimensions of urban environmental burdens, showing how important it is to take these into account when pursuing environmental justice and good governance - whether in the context of the sanitary risks of slum living, the pollution of uncontrolled industrialization

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and motorization, or the enormous ecological footprints of affluent urban lifestyles. Written by leading experts in the fields of urban development and environmental planning, the book reviews the urban environmental shifts that have shaped today's challenges, and examines conditions and problems in the urban centres of low-, middle- and high-income countries. Case studies address such economically diverse cities as Accra, New Delhi, Mexico City and Manchester, while thematic chapters explore issues including

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water, sanitation and transportation. The book concludes by exploring and analysing different scales of governance. The editors argue that we should not rely solely on local governance to address local burdens like poor sanitation, nor depend only on global governance for global challenges such as greenhouse gas emissions, but that scale is crucial in both understanding the problems and devising successful responses.

Published with UNU-IAS and IIED.

Low Carbon Cities

Smart Sustainable Cities of the Future

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UDMS Annual 2011 Sustainable City and Creativity The Urbanism of Metabolism Urban Geography

This Companion presents a distinctive approach to environmental planning by: situating the debate in its social, cultural, political and institutional context; being attentive to depth and breadth of discussions; providing up-to-date accounts of the contemporary practices in environmental planning and their changes over time; adopting multiple theoretical and analytical lenses and different disciplinary approaches; and drawing on

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knowledge and expertise of a wide range of leading international scholars from across the social science disciplines and beyond. It aims to provide critical reviews of the state-of-the-art theoretical and practical approaches as well as empirical knowledge and understandings of environmental planning; encourage dialogue across disciplines and national policy contexts about a wide range of environmental planning themes; and, engage with and reflect on politics, policies, practices and decision-making tools in environmental planning. The Companion provides a deeper understanding of the interdependencies between the themes in the four parts of the book (Understanding 'the environment', Environmental governance, Critical

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environmental pressures and responses, and Methods and approaches to environmental planning) and its 37 chapters. It presents critical perspectives on the role of meanings, values, governance, approaches and participations in environmental planning. Situating environmental planning debates in the wider ecological, political, ethical, institutional, social and cultural debates, it aims to shine light on some of the critical journeys that we have traversed and those that we are yet to navigate and their implications for environmental planning research and practice. The Companion provides a reference point mapping out the terrain of environmental planning in an international and multidisciplinary context. The depth and breadth of discussions by leading

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international scholars make it relevant to and useful for those who are curious about, wish to learn more, want to make sense of, and care for the environment within the field of environmental planning and beyond.

Our world is becoming more urban. More than fifty percent of the global population now lives in cities, which poses new challenges for sustainable development. This book integrates theory and methods of sustainability assessment with concepts from systems science to provide guidelines for assessing the sustainability of urban systems. It discusses different aspects of urban sustainability, from energy and housing, to mobility and health, covering social, economic and environmental factors, as well as the various stakeholders and actors

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involved. The book argues for the need to find models and solutions in order to design sustainable cities of the future in light of the complexity of urban social life. Including diverse case studies from the developed and developing world, this book provides a useful reference for researchers and students from a broad range of disciplines working in the field of sustainability, as well as for environmental consultants and policy makers. Understanding Urban Metabolism A Tool for Urban Planning Routledge

A perfect introduction to sustainable mining for those new to the subject or those who require some revision, this book provides a basic overview of international sustainable mining practices since 1992, with particular

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emphasis upon practices in the Americas, Asia and Europe. The text begins by addressing issues such as the volume of waste generated by mining, mine closure planning and the environmental impacts, and then goes into specific detail in the following areas: cleaner production practices in Australia; blasting impacts and their control in the US; minimizing surface water impacts; minimizing groundwater impacts; use of environmental indicators in mining; and emerging mining technologies that minimize environmental impacts. The text contains relevant examples and case histories for ease of revision, and also includes a chapter on Best Mining Practices for Sustainable Mining and sub-chapters on small-scale mining, tailings pond management and hazardous waste

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management.

The Sustainable City VIII (2 Volume Set)

The Routledge Companion to Environmental Planning

The Untapped Potential of Big Data Analytics and

Context-Aware Computing for Advancing Sustainability

Concepts, Technologies, Examples

Mainstreaming Low Carbon Urban Development

Urban Planet

Urban Climates

As the need to confront unplanned growth increases, planners, policymakers, and citizens are scrambling for practical tools and examples of successful and workable approaches. Growth management initiatives are

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underway in the U.S. at all levels, but many American "success stories" provide only one piece of the puzzle. To find examples of a holistic approach to dealing with sprawl, one must turn to models outside of the United States. In *Green Urbanism*, Timothy Beatley explains what planners and local officials in the United States can learn from the sustainable city movement in Europe. The book draws from the extensive European experience, examining the progress and policies of twenty-five of the most innovative cities in eleven European countries, which Beatley researched and observed in depth during a year-long stay

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in the Netherlands. Chapters examine: the sustainable cities movement in Europe examples and ideas of different housing and living options transit systems and policies for promoting transit use, increasing bicycle use, and minimizing the role of the automobile creative ways of incorporating greenness into cities ways of readjusting "urban metabolism" so that waste flows become circular programs to promote more sustainable forms of economic development sustainable building and sustainable design measures and features renewable energy initiatives and local efforts to promote solar energy ways of

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greening the many decisions of local government including ecological budgeting, green accounting, and other city management tools. Throughout, Beatley focuses on the key lessons from these cities -- including Vienna, Helsinki, Copenhagen, Stockholm, Zurich, Amsterdam, London, and Berlin -- and what their experience can teach us about effectively and creatively promoting sustainable development in the United States. Green Urbanism is the first full-length book to describe urban sustainability in European cities, and provides concrete examples and detailed discussions of innovative and

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practical sustainable planning ideas. It will be a useful reference and source of ideas for urban and regional planners, state and local officials, policymakers, students of planning and geography, and anyone concerned with how cities can become more livable.

Understanding Urban Metabolism addresses the gap between the bio-physical sciences and urban planning and illustrates the advantages of accounting for urban metabolism issues in urban design decisions. Urban metabolism considers a city as a system, and distinguishes between energy and material flows as its components. Based on research

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from the BRIDGE project, this book deals with how the urban surface exchanges and transforms energy, water, carbon and pollutants in cities. This book also introduces a new method for evaluating how planning alternatives can modify the physical flows of urban metabolism components and how environmental and socioeconomic components interact. The inclusion of sustainability principles into urban planning provides an opportunity to place the new knowledge provided by bio-physical sciences at the centre of the planning process, but there is a strong need to bridge knowledge and

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practice, as well as for a better dissemination of research results and exchange of best practice. This book meets that need and provides the reader with the necessary tools to integrate an understanding of urban metabolism into urban planning practice.

The notion of 'creative cities' - where cultural activities and creative and cultural industries play a crucial role in supporting urban creativity and contributing to the new creative economy - has become central to most regional and urban development strategies in recent years. A creative city is supposed to

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develop imaginative and innovative solutions to a range of social, economic and environmental problems: economic stagnancy, urban shrinkage, social segregation, global competition or more. Cities and regions around the world are trying to develop, facilitate or promote concentrations of creative, innovative and/or knowledge-intensive industries in order to become more competitive. These places are seeking new strategies to combine economic development with quality of place that will increase economic productivity and encourage growth. Against this increasing interest in creative

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cities, this volume offers a coherent set of articles on sustainable and creative cities, and addresses modern theories and concepts relating to research on sustainability and creativity. It analyses principles and practices of the creative city for the formulation of policies and recommendations towards the sustainable city. It brings together leading academics with different approaches from different disciplines to provide a comprehensive and holistic overview of creativity and sustainability of the city, linking research and practice. In doing so, it puts forward ideas about stimulating the

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production of an innovative knowledge for a creative and sustainable city, and transforming a specific knowledge into a general common knowledge, which suggests best future policy actions, decision-making processes and choices for the change towards a human sustainable development of the city. "Netzstadt stands for a model. It facilitates the differentiated portrayal of an urban development which has characterized cities and landscapes since the middle of the twentieth century. The model's foundation is the elucidation of criteria of durability and urbanity. Netzstadt stands for a

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transdisciplinary method by means of which urbanity can be analyzed and evaluated morphologically and physiologically, and redesigned in a process of modernization. Modernization means initiating an intelligent process in a democratic society in order to adapt the 'urban cultural landscape' to the needs of the future. *Netzstadt* is the title of a text book on designing cities. It addresses students and practitioners in the fields of city planning and city construction, in architecture, engineering and the natural sciences and the social sciences and economics"--Back cover.

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From Local to Global and Back
An Environmental History
Children Living in Sustainable Built
Environments
Green Urbanism
Sustainable Urban Metabolism
Urban Galapagos
Global Urban Agriculture

Cities are amongst our greatest creations. Yet, with cities now home to over half the world's population, there is increasing concern over their unchecked expansion and the detrimental effect this is having on

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the planet. This unfettered growth is affecting every ecosystem on Earth, from the deepest oceans to the highest mountains, as induced climate change and ever increasing demands upon the world's resources take effect. As the pace of urbanisation quickens, how can we make the world's cities more sustainable? Ian Douglas tells the story of cities. He shows why they exist, how they have evolved and the problems they have encountered, revealing how from the very beginning environmental management played

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a key role in urban life. He addresses specific problems, such as noise and air pollution, water supply and waste management, as well as the vulnerability of cities to hazards such as earthquakes and flooding. And he considers strategies to make cities more sustainable and help them adapt to climate change, such as waste recycling, energy conservation, dual water systems, sustainable housing, as well as initiatives to retrofit existing cities. Written by an acknowledged international authority, this unique

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volume will be welcomed by students and specialists in environment, planning, geography, ecology and the built environment.

One important change in the Brazilian policies is the Pacification. In recent years the government has invested in creating safer and more livable favelas. This generally starts with creating a UPP, a police post at a central location, from where the safety is maintained. Once this has been established the PAC, the government organisation for accelerating

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urban development in the favelas, starts to make plans to improve the quality of life in the favela: drinking water, electricity, sewage system and other basic systems. It is essential to include the growth of food in their policies. Secondly, the discourse in urban agriculture shifts from the early stage in which every initiative is interesting, food production is a social activity and an estimated contribution to sustainability, towards the question how much food is actually produced within the

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city boundaries. Analyses show that the amount produced is very little. The follow-up question is how more food could be produced in the city? This is obviously also a matter of space. Current urban concepts do not offer enough space for food production and this implies new concepts need to be found. In the context of the favelas these new spaces need to be found on roofs.

A textbook that introduces integrated, sustainable design of urban infrastructures, drawing on civil

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engineering, environmental engineering, urban planning, electrical engineering, mechanical engineering, and computer science. This textbook introduces urban infrastructure from an engineering perspective, with an emphasis on sustainability. Bringing together both fundamental principles and practical knowledge from civil engineering, environmental engineering, urban planning, electrical engineering, mechanical engineering, and computer science, the book transcends disciplinary boundaries by

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viewing urban infrastructures as integrated networks. The text devotes a chapter to each of five engineering systems—electricity, water, transportation, buildings, and solid waste—covering such topics as fundamentals, demand, management, technology, and analytical models. Other chapters present a formal definition of sustainability; discuss population forecasting techniques; offer a history of urban planning, from the Neolithic era to Kevin Lynch and Jane Jacobs; define and

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discuss urban metabolism and infrastructure integration, reviewing system interdependencies; and describe approaches to urban design that draw on complexity theory, algorithmic models, and machine learning. Throughout, a hypothetical city state, Civitas, is used to explain and illustrate the concepts covered. Each chapter includes working examples and problem sets. An appendix offers tables, diagrams, and conversion factors. The book can be used in advanced undergraduate and graduate courses in

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civil engineering and as a reference for practitioners. It can also be helpful in preparation for the Fundamentals of Engineering (FE) and Principles and Practice of Engineering (PE) exams. Innovation has become the new buzzword across the globe. International organisations, governments, corporates, academia and society see it as the answer to the major economic, social and environmental transformations challenging the models of the 20th century. Innovations are occurring worldwide and

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alternative solutions to the existing problems are emerging in all sectors: electric cars, organic farming, renewable energy and e-learning are good examples. These alternatives can be ascribed with qualities such as decentralized frugal, flexible, smart and democratic, virtues that are lacking in conventional models. They are attributed with the potential to meet the overall global challenges such as climate change and the growing inequalities between and within countries. What is the real potential of innovation?

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Does the rapid deployment of innovations lead towards a more sustainable and inclusive society? Can innovations and the emerging alternatives replace conventional models? Beyond technologies, what institutional innovations are required to support sustainable development? A Planet for Life 2014 aims to answer these questions and explore innovation in all its aspects, through a series of texts written by international experts. The objective of this book is to analyse experiences from across the world and the

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role of innovation in a variety of areas of development such as urbanization, agriculture and food, the mobility of people and freight, education and the provision of water and energy to all.

Urban and Regional Data Management

A Tool for Urban Planning

Motivating Change: Sustainable Design and

Behaviour in the Built Environment

Learning From European Cities

A Global Perspective

Sustainable Cities in Asia

Low Carbon Cities is a book for practitioners,

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students and scholars in architecture, urban planning and design. It features essays on ecologically sustainable cities by leading exponents of urban sustainability, case studies of the new directions low carbon cities might take and investigations of how we can mitigate urban heat stress in our cities' microclimates. The book explores the underlying dimensions of how existing cities can be transformed into low carbon urban systems and describes the design of low carbon cities in theory and practice. It considers the connections between low carbon cities and sustainable design, social and individual values,

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public space, housing affordability, public transport and urban microclimates. Given the rapid urbanisation underway globally, and the need for all our cities to operate more sustainably, we need to think about how spatial planning and design can help transform urban systems to create low carbon cities, and this book provides key insights.

Today, for the first time in the history of Humankind urban dwellers outnumber rural residents. Urban places, towns and cities, are of fundamental importance – for the distribution of population within countries; in the organization of economic

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production, distribution and exchange; in the structuring of social reproduction and cultural life; and in the allocation and exercise of power. Furthermore, in the course of the present century the number of urban dwellers and level of global urbanisation are destined to increase. Even those living beyond the administrative or functional boundaries of a town or city will have their lifestyle influenced to some degree by a nearby, or even distant, city. The analysis of towns and cities is a central element of all social sciences including geography, which offers a particular perspective on

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and insight into the urban condition. The principal goal of this third edition of the book remains that of providing instructors and students of the contemporary city with a comprehensive introduction to the expanding field of urban studies. The structure of the first two editions is maintained, with minor amendments. Each of the thirty chapters has been revised to incorporate recent developments in the field. All of the popular study aids are retained; the glossary has been expanded; and chapter references and notes updated to reflect the latest research. This third edition also provides new and

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expanded discussions of key themes and debates including detailed consideration of metacities, boomburbs, public space, urban sprawl, balanced communities, urban economic restructuring, poverty and financial exclusion, the right to the city, urban policy, reverse migration , and traffic and transport problems. The book is divided into six main parts. Part one outlines the field of urban geography and explains the importance of a global perspective. Part two explores the growth of cities from the earliest times to the present day and examines the urban geography of the major world regions. Part three

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considers the dynamics of urban structure and land use change in Western cities. Part four focuses on economy, society and politics in the Western city. In part five attention turns to the urban geography of the Third World, where many of the countries experiencing highest rates of urban growth are least well equipped to respond to the economic, social, political and environmental challenge. Finally part six affords a prospective on the future of cities and cities of the future. New to this edition are: further readings based on the latest research; updated data and statistics; an expanded glossary; new key concepts;

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additional study questions; and a listing of useful websites. The book provides a comprehensive interpretation of the urban geography of the contemporary world. Written in a clear and readable style, lavishly illustrated with more than eighty photographs, 180 figures, 100 tables and over 200 boxed studies and with a plethora of study aids Urban Geography: A Global Perspective represents the ultimate resource for students of urban geography.

In a concise and crisp manner, this book presents the state of the art in ecological economics, an

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interdisciplinary field focused on the analysis of sustainability of global, national and regional economic systems. An elegant guide, the book offers a range of cutting edge methods used in sustainability research including multicriteria decision aid (MCDA), input-output analysis, and life cycle analysis. This book is packed with references for students with some background in economics, environmental science or mathematics who aim to develop the analytical skills required for redirecting our development path towards sustainability in government, international organisations, academia,

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non-profit sector and business. As such, the book is primarily aimed at MSc and first year PhD students reading for degrees in Environmental Change and Management, Ecological Economics, Environmental Management, Philosophy, Politics and Economics, and those taking part in similar programmes. The book strives to develop the idea that a significant adjustment of the current economic theories is required, an idea supported by the emerged world economic crisis, the climatic and biodiversity crisis the world is currently facing and the enormously slow progress that has been made in the field of

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reorientation of the global economy towards sustainability. The practical case studies provided focus on the most pressing topics of today, and the book adopts a positive approach for problem solving and strategic development, which is aimed at educating the future decision makers and business leaders.

Urban living has dramatically changed over the past generation, refashioning children's relationships with the towns and cities in which they live, and the modes of living within them. Focusing on the global shift in urban planning towards sustainable urbanism

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- from master planned 'sustainable communities', to the green retrofitting of existing urban environments - Children Living in Sustainable Built Environments offers a critical analysis of the challenges, tensions and opportunities for children and young people living in these environments. Drawing upon original data, Children Living in Sustainable Built Environments demonstrates how the needs, interests and participation of children and young people often remain inferior to the design, planning and local politics of new urban communities. Considering children from their crucial role as

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residents engaging and contributing to the vitalities of their community, to their role as consumers using and understanding sustainable design features, the book critically discusses the prospects of future inclusion of children and young people as a social group in sustainable urbanism. Truly interdisciplinary, Children Living in Sustainable Built Environments forms an original theoretical and empirical contribution to the understanding of the everyday lives of children and young people and will appeal to academics and students in the fields of education, childhood studies, sociology,

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anthropology, human geography and urban studies, as well as policy-makers, architects, urban planners and other professionals working on sustainable urban designs.