

Sustainable Cities Sustainable Universities

Sustainable Communities Design Handbook: Green Engineering, Architecture, and Technology, Second Edition, brings together the major players responsible for sustainable development at both community and metropolitan scales. The book aims to explain and demonstrate the practice, planning, design, building and managing of the engineering, architectural and economic development of cities and communities to meet sustainable development objectives. Offering a holistic approach to creating sustainable communities, the book includes a 40 percent increase in new methods and technology over the last edition, and 50 percent more case studies from around the world to illustrate how common sustainability problems are solved. As the concept and practices of a sustainable built environment have evolved over the years, it is increasingly recognized that the scope should be expanded beyond individual buildings to the community scale. Written by an international team of engineers, architects, and environmental experts this second edition includes new HVAC technologies for heating and cooling, energy effect technologies for lighting, and new construction materials which improve heating and cooling efficiencies. This new edition will also include critical updates on international codes: LEED, BREEAM, and Green Globes. Explains the most cutting-edge green technologies and methods for use in built communities Provides a common approach in using natural resources when building and designing green communities Features coverage of green practices from architecture to construction Covers compliance with various international codes, methods and legal frameworks

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Urban governance and sustainability are rapidly becoming key issues around the world. Currently three billion people - half the population of the planet - live in cities, and by 2050 a full two-thirds of the world's population will be housed in ever larger and increasingly densely populated urban areas. The economic, social and environmental challenges posed by urbanization on such a large scale and at such a rapid pace are staggering for local, regional and national governments working towards sustainability. Solutions to the myriad problems plaguing the quest for sustainability at the city-level are equally as diverse and complex, but are rooted in the assumptions of the 'sustainability agenda', developed at the Rio Earth Summit and embodied in Local Agenda/Action 21. These assumptions state that good governance is a necessary precondition for the achievement of sustainable development, particularly at the local level, and that the mobilization of local communities is an essential part of this process. Yet until now, these assumptions, which have guided the policies and programmes of over 6000 local authorities around the world, have never been seriously tested. Drawing on three years of field research in 40 European towns and cities, *Governing for Sustainable Cities* is the first book to examine empirically the processes of urban governance in sustainable development. Looking at a host of core issues including institutional and social capacity, institutional design, social equity, politics, partnerships and cooperation and creative policy-making, the authors draw compelling conclusions and offer strong guidance. This book is essential reading for policy-makers, politicians, activists and NGOs, planners, researchers and academics, whether in Europe, North America, Australasia or transitional and developing countries, concerned with advancing sustainability in our rapidly urbanizing world.

Dr. Steven A. Moore investigates the exemplary cities of

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Austin, Texas, Curitiba, Brazil, and Frankfurt, Germany to examine how each city has approached and maintained sustainability, and thus stimulated economic growth, preserved threatened ecosystems, and improved social equity. These three cities have successfully developed different dispositions toward politics, nature, and technology, proving that there is no single abstract model or universal checklist but different approaches for different people. *Nature-Based Solutions for More Sustainable Cities* makes a clear case of performances, impacts, and benefits generated by NBS in cities providing a comprehensive framework approach to understand the real and full potential of NBS at the urban level.

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 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 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

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Studies and Asian studies.

Planning Sustainable Cities: An infrastructure-based approach provides an analytical framework for urban sustainability, focusing on the services and performance of infrastructure systems. The book approaches infrastructure as a series of systems that function in synergy and are directly linked with urban planning. This method streamlines and guides the planning process, while still highlighting detail, each infrastructure system is decoded in four "system levels". The levels organize the processes, highlight connections between entities and decode the high-level planning and decision making process affecting infrastructure. For each system level strategic objectives of planning are determined. The objectives correspond to the five focus areas of the Zofnass program: Quality of life, Natural World, Climate and Risk, Resource Allocation, Leadership. Developed through the Zofnass Program at the Harvard Graduate School of Design, this approach integrates the key infrastructure systems of Energy, Landscape, Transportation, Waste, Water, Information and Food and explores their synergies through land use planning, engineering, economics and policy. The size and complexity of infrastructure systems means that multiple stakeholders facing their own challenges and agendas are involved in planning; this book creates a common, collaborative platform between public authorities, planners, and engineers. It is an essential resource for those seeking Envision Sustainability Professionals accreditation. of the present without compromising the ability of future generations to meet their own needs. In The Sustainable City V many interrelated aspects of the urban environment from transport and mobility to social exclusions and crime prevention are addressed. The papers included were originally presented at the Fifth International Conference on Urban Regeneration and Sustainability and will be of interest

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to city planners, architects, environmental engineers and all academics, professionals and practitioners working in the wide range of disciplines associated with creating a viable urban environment. In this book the papers are published under the following topics: Architectural issues; Cultural heritage; Energy resources systems; Environmental management; Healthy cities; Indicators: ecological, economic, social; Land use and management; Mega cities; Planning issues; Planning, development and management; Public safety; Revitalisation strategies; Socio-economic issues; Spatial modelling; Strategy; Sustainable transportation and transport integration; The community and the city; Traffic and transportation; Urban-rural relationships.

Containing research on sustainable urban redevelopment presented at the latest in a biennial series organised by the Wessex Institute of Technology, this book addresses an area of growing interest. The conference series was first held in 2000. These proceedings are split into two volumes. Urban areas produce a series of environmental challenges arising from the consumption of natural resources and the consequent generation of waste and pollution, contributing to the development of social and economic imbalances. All these problems, which continue to grow in our society, require the development of new solutions. Topics include: Volume I – Urban Strategies; Eco-town Planning; Planning, development and management; Planning, development and management for urban conservation and regeneration; Case studies; Landscape planning and design; Environmental management; Intelligent environments and emerging technologies. Volume II – Sustainable energy and the city; Waterfront developments; The community and the city; Quality of life; Cultural heritage issues; Transportation; Planning for risk; Planning for risk; Transport models in emergency conditions; Industrial wastes as raw materials;

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Waste management; Safety and security; The city heritage. This text addresses the difficulties of balancing the imperatives of sustainability with the pressing challenges facing some of the world's most underdeveloped areas. Various perspectives are brought to bear on issues from economics and theories of health through to the foundations of sustainability. All the key contemporary developments are dealt with; the growth in international law and agreements on controlling greenhouse gases; the effect of reforms in finance, governance and methods of appraisal on the areas of waste management; and the theoretical advances in the community development aspects of health and the neighbourhood environment guided by the experiences of the World Bank, WHO and UNEP. The text is intended as a guidebook for those responsible for re-shaping cities in the 21st century. Once upon a time, more specifically during medieval time, universities were meant to be the places for teaching and shaping the elite administrators' class of the regnant in charge. With the industrial revolution, professors were asked to improve the efficiency of the machines and the new production systems. During the Second World War, academia was the tool fostering technological innovation. In recent times, Richard Florida outlined a new University role in nurturing the rampant "creative class", while John Scott recalled the needed postmodern shift of the university missions from teaching to research as a tool for public service mission, and Henry Etzkowitz designed a triple helix cluster which should blend the boundaries between university—industry—government. In this global

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competition and increasing pressures, the front is populated by some of the universities reported in this book. Visions, strategies, policies and action plans, brave management programmes, new interdisciplinary and cross-cutting committees, bottom-up governance structures and green teams, advanced IT system for energy management, are some of the strategies here reported from the front. While pursuing the emerging “third mission”, all initiatives described in the chapters also reveal a common, underlying, higher aspiration – to untangle and test how universities can help the localities and societies in which they stand to transition towards carbon neutrality, societal sustainability and resilience to climate change.

Urban areas produce a series of environmental problems arising from the consumption of natural resources and the consequent generation of waste and pollution. These problems contribute to the development of social and economic imbalances. All these problems, which continue to grow in our society, require new solutions. This book addresses the many inter-related aspects of the urban environment from transport and mobility to social exclusion and crime prevention. Publishing papers from the Fourth International Conference on Urban Regeneration and Sustainability, the volume includes topics such as: Strategy and Development; Planning; Development and Management; Environmental Management; Planning Issues; Socio-economic Issues; The community and the City; Cultural Heritage; Architectural Issues; Traffic and Transportation; Land Use and Management; Public Safety; Conservation of

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Resources; Sustainable Transportation and Transport Integration; Depleted Ecological Resources; Environmental Pollution; Energy Resources Systems. This title includes a number of Open Access chapters. Two trends come together in the world's cities to make urban sustainability a critical issue today. First, greater and greater numbers of people are living in urban areas—and are projected to do so for the foreseeable future. Additionally, cities contribute to climate change in a significant way and must make systemic changes to mitigate and adapt to climate change effects. Urban planners face serious challenges in enhancing sustainability but also have an important set of tools available for creating innovative solutions. This book adds to the conversation about the place of urban planning in the creation and maintenance of sustainable cities.

Urbanization is occurring at an unprecedented rate; by 2050 three quarters of the world's people will live in urban environments. The cars we drive, products we consume, houses we live in and technology we use will all determine how sustainable our cities will be. Bridging the increasing divide between cross-disciplinary academic insights and the latest practical innovations, *Resilient Sustainable Cities* provides an integrated approach for long term future planning within the context of the city as a whole system. In the next 30 years cities will face their biggest challenges yet, as a result of long term, or 'slow burn' issues: population growth will stretch to the breaking point urban infrastructure and service capacity; resource scarcity, such as peak oil;

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potable water and food security, will dramatically change what we consume and how; environmental pressures will change how we live and where and; shifting demographic preferences will exacerbate urban pressures. Cities can't keep doing what they've always done and cope – we need to change current urban development to achieve resilient, sustainable cities. Resilient Sustainable Cities provides practical and conceptual insights for practitioners, researchers and students on how to deliver cities which are resilient to 'slow burn' issues and achieve sustainability. The book is organized around three overarching themes: pathways to the future innovation to deliver the future leadership and governance issues The book includes a variety of perspectives conveyed through international case studies and examples of cities that have transformed for a sustainable future, exploring their successes and failures to ensure that readers are left with ideas on how to turn their city into a resilient sustainable city for the future.

Sustainability is a watchword of policy-makers and planners around the world, with cities providing the main focus for development. This comprehensive introduction to sustainability shows how cities are adopting sustainable practices, and considers how to achieve a public-governance approach for the urban age.

The CityForm consortium's latest book, Dimensions of the Sustainable City, is the first book to report on an empirical multi-disciplinary study specifically designed to address urban sustainability. Drawing together the various dimensions of sustainability – economic, social,

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transport, energy and ecological – the book examines their relationships both to each other and to urban form. The book investigates the sustainability dimensions of cities through a series of projects based on a common list of elements of urban form, and which draw on the consortium's latest research to review the sustainability issues of each dimension. The elements of urban form include density, land use, location, accessibility, transport infrastructure and characteristics of the built environment. The book also addresses issues such as adapting cities, psychological and ecological benefits of green space and sustainable lifestyles, each presenting a critical review of the relevant literature followed by an empirical analysis presenting the key results. Based on studies across five UK cities, the book draws out findings of relevance to sustainable cities worldwide. As well as an invaluable reference to researchers in sustainable planning and urban design, the book will provide a useful text for advanced undergraduate and graduate courses and for policy makers dealing with these issues. The CityForm consortium is a multi-disciplinary group of researchers from five universities funded by the UK Engineering and Physical Science Research Council from 2003-07.

This timely book explores how universities are establishing living laboratories for sustainable development, and examines the communication networks and knowledge infrastructures that underpin impact both on and beyond the campus.

A groundbreaking exploration of the most promising new ideas for creating the sustainable cities of

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tomorrow The culmination of a four-year collaborative research project undertaken by leading UK universities, in partnership with city authorities, prominent architecture firms, and major international consultants, *Retrofitting Cities for Tomorrow's World* explores the theoretical and practical aspects of the transition towards sustainability in the built environment that will occur in the years ahead. The emphasis throughout is on emerging systems innovations and bold new ways of imagining and re-imagining urban retrofitting, set within the context of 'futures-based' thinking. The concept of urban retrofitting has gained prominence within both the research and policy arenas in recent years. While cities are often viewed as a source of environmental stress and resource depletion they are also hubs of learning and innovation offering enormous potential for scaling up technological responses. But city-level action will require a major shift in thinking and a scaling up of positive responses to climate change and the associated threats of environmental and social degradation. Clearly the time has come for a more coordinated, planned, and strategic approach that will allow cities to transition to a sustainable future. This book summarizes many of the best new ideas currently in play on how to achieve those goals. Reviews the most promising ideas for how to approach planning and coordinating a more sustainable urban future by 2050 through retrofitting

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existing structures Explores how cities need to govern for urban retrofit and how future urban transitions and pathways can be managed, modeled and navigated Offers inter-disciplinary insights from international contributors from both the academic and professional spheres Develops a rigorous conceptual framework for analyzing existing challenges and fostering innovative ways of addressing those challenges Retrofitting Cities for Tomorrow's World is must-reading for academic researchers, including postgraduates insustainability, urban planning, environmental studies, economics, among other fields. It is also an important source of fresh ideas and inspiration for town planners, developers, policy advisors, and consultants working within the field of sustainability, energy, and the urban environment.

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 cities lies in considering the dynamics of urban systems,

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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.

A sustainable city has been defined in many ways. Yet, the most common understanding is a vision of the city that is able to meet the needs of the present without compromising the ability of future generations to meet their own needs. Central to this vision are two ideas: cities should meet social needs, especially of the poor, and not exceed the ability of the global environment to meet needs. After *Sustainable Cities* critically reviews what has happened to these priorities and asks whether these social commitments have been abandoned in a period of austerity governance and climate change and replaced by a darker and unfair city. This book provides the first comprehensive and comparative analysis of the new eco-logics reshaping conventional sustainable cities discourse and environmental priorities of cities in both the global north and south. The dominant discourse on sustainable cities, with a commitment to intergenerational equity, social justice and global responsibility, has come under increasing pressure. Under conditions of global ecological change,

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international financial and economic crisis and austerity governance new eco-logics are entering the urban sustainability lexicon – climate change, green growth, smart growth, resilience and vulnerability, ecological security. This book explores how these new eco-logics reshape our understanding of equity, justice and global responsibility, and how these more technologically and economically driven themes resonate and dissonate with conventional sustainable cities discourse. This book provides a warning that a more technologically driven and narrowly constructed economic agenda is driving ecological policy and weakening previous commitment to social justice and equity. After Sustainable Cities brings together leading researchers to provide a critical examination of these new logics and identity what sort of city is now emerging, as well as consider the longer-term implication on sustainable cities research and policy. In order to yield the expected benefits, sustainability initiatives need to be undertaken by means of a close cooperation between universities on the one hand, and societal partners on the others. The principle of co-creation and co-execution of sustainability initiatives increases the value for all by mutual learning, and the sharing of expertise and resources. But pursuing sustainability initiatives with a community and societal involvement is not simple. There is a perceived need for a better understanding

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of how universities can interact with society, in order to support the implementation of the UN Sustainable Development Goals. This book is an attempt to address this need, by a novel approach which focuses on current potentials and challenges, across a wide range of fields and expertise. The book focuses on how the theory and practice of sustainable development interact and shows the need for a continuation of the dialogue among sustainability academics and practitioners, so as to address the issues, matters and problems at hand. The spectrum of themes addressed on this book also entails how environmental values and ethics are applied and the relationship between social, biological and cultural diversity. It also includes a broad disciplinary approach to sustainability, including education, research and case studies, and the links with human–environment relations in a sustainable development context.

This book aims to contribute to the conceptual and practical knowledge pools in order to improve the research and practice on the sustainable development of smart cities by bringing an informed understanding of the subject to scholars, policymakers, and practitioners. This book seeks articles offering insights into the sustainable development of smart cities by providing in-depth conceptual analyses and detailed case study descriptions and empirical investigations. This way,

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the book will form a repository of relevant information, material, and knowledge to support research, policymaking, practice, and transferability of experiences to address aforementioned challenges. The scope of the book includes the following broad areas, with a particular focus on the approaches, advances, and applications in the sustainable development of smart cities: • Theoretical underpinnings and analytical and policy frameworks; • Methodological approaches for the evaluation of smart and sustainable cities; • Technological developments in the techno-enviro nexus; • Global best practice smart city case investigations and reports; • Geo-design and applications concerning desired urban outcomes; • Prospects, implications, and impacts concerning the future of smart and sustainable cities.

The Future of Sustainability, the tenth and final volume of the Berkshire Encyclopedia of Sustainability, brings together essays from a group of renowned scholars and well-known environmentalist thinkers. Crucial topics are considered in terms of the future of humanity and its relationship with the natural world, from the outlook for nuclear energy, cities, energy, agriculture, water, food security, mobility, and migration; the role of higher education; and the concept of collective learning. The volume concludes with a resource guide for teaching materials at several levels, a

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directory of leading undergraduate- and graduate-level programs in sustainability, and a combined index of the 10-volume set.

Current urban planning systems are not equipped to deal with the major urban challenges of the twenty-first century, including effects of climate change, resource depletion and economic instability, plus continued rapid urbanization with its negative consequences such as poverty, slums and urban informality. These planning systems have also, to a large extent, failed to meaningfully involve and accommodate the ways of life of communities and other stakeholders in the planning of urban areas, thus contributing to the problems of spatial marginalization and exclusion. It is clear that urban planning needs to be reconsidered and revitalized for a sustainable urban future. *Planning Sustainable Cities* reviews the major challenges currently facing cities and towns all over the world, the emergence and spread of modern urban planning and the effectiveness of current approaches. More importantly, it identifies innovative urban planning approaches and practices that are more responsive to current and future challenges of urbanization. The *Global Report on Human Settlements* is the most authoritative and up-to-date global assessment of human settlements conditions and trends. It is an essential reference for researchers, academics, public authorities and civil society organizations all

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over the world. Preceding issues of the report have addressed such topics as Cities in a Globalizing World, The Challenge of Slums, Financing Urban Shelter and Enhancing Urban Safety and Security. This title was first published in 2003. Seven years after Habitat II culminated with the Istanbul agreement on Sustainable Urban Development, this book brings together many of the world's leading experts from the fields of architecture, urban planning, economics, sociology, politics, environment and geography to assess the successes and failures in fulfilling the objectives decided upon at this historic meeting. Illustrated with a wide range of case studies, this volume is divided into three main sections; firstly examining the challenges, secondly, the approaches, and finally, the practices. The book represents a critical appraisal not only of the issues related to urban development but also of the modalities to face these issues from real examples, these in return can be used as starting points to construct new 'real utopias' or at least, to future 'best practices'.

At the current time, many issues and problems within sustainable urban development are managed within traditional disciplinary and organizational structures. However, problems such as, climate change, resource constraints, poverty and social tensions all exceed current compartmentalization of policy-making, administration and knowledge production. This book

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provides a better understanding of how researchers and practitioners together can co-produce knowledge to better contribute to solving the complex challenges of reaching sustainable urban futures. It is written for academic and professional audiences working with urban planning and sustainable cities around the world. Co-producing Knowledge is presented, by way of introduction, as a non-linear, collaborative approach to knowledge production which combines interdisciplinary, transdisciplinary, cross sector and policy approaches to societal problem solving. Examples are taken from Cape Town, Gothenburg, Kisumu, Manchester, Melbourne and a selection of cities in Southeast Asia. Each city chapter discusses the drivers and motivations behind knowledge co-production and gives concrete examples of activities and approaches that have been used to promote sustainable urban futures. Each chapter is written to promote mutual learning from the approaches that are already in use. Building upon these city cases, the conclusions outline an international practice and research agenda aimed at strengthening the promotion and implementation of the knowledge co-production for sustainability across diverse urban development contexts. This book provides an overview of the diverse driving forces behind co-production, and their specific contexts and constraints in a variety of cosmopolitan urban contexts. Some of these include institutional and cross-sector barriers to co-production, the need for learning across diverse levels and contexts, and strategies for balancing scientific excellence with the needs of societal change. This book offers valuable

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lessons regarding the concrete implications and potential impact that co-production processes can have for different user groups, such as planners, politicians, researchers, business interests and NGOs in different urban development contexts.

This Handbook approaches sustainable development in higher education from an integrated perspective, addressing the dearth of publications on the subject. It offers a unique overview of what universities around the world are doing to implement sustainable development (i.e. via curriculum innovation, research, activities, or practical projects) and how their efforts relate to education for sustainable development at the university level. The Handbook gathers a wealth of information, ideas, best practices and lessons learned in the context of executing concrete projects, and assesses methodological approaches to integrating the topic of sustainable development in university curricula. Lastly, it documents and disseminates the veritable treasure trove of practical experience currently available on sustainability in higher education.

Living sustainably is not just about preserving the wilderness or keeping nature pristine. The transition to a green economy depends on cities. Economic, technological, and cultural forces are moving people out of rural areas and into urban areas. If we are to avert climate catastrophe, we will need our cities to coexist with nature without destroying it. Urbanization holds the key to long-term sustainability, reducing per capita environmental impacts while improving economic prosperity and social inclusion for current and future

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generations. The Sustainable City provides a broad and engaging overview of the urban systems of the twenty-first century. It approaches urban sustainability from the perspectives of behavioral change, organizational management, and public policy, looking at case studies of existing legislation, programs, and public-private partnerships that strive to align modern urban life and sustainability. The book synthesizes the disparate strands of sustainable city planning in an approachable and applicable guide that highlights how these issues touch our lives on a daily basis, including the transportation we take, the public health systems that protect us, where our energy comes from, and what becomes of our food waste. This second edition of *The Sustainable City* dives deeper into the financing of sustainable infrastructure and initiatives and puts additional emphasis on the roles that individual citizens and varied stakeholders can play. It also reviews current trends in urban inequality and discusses whether a model of sustainability that embraces a multidimensional approach to development and a multistakeholder approach to decision making can foster social inclusion. It features many more examples and new international case studies spanning the globe.

Helps citizens and their governments apply the concept of sustainable development in their communities.

Original.

Matters related to sustainable development, albeit global in nature, are best handled at the local level. This line of thinking is particularly true to the higher education context, where the design and implementation of

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sustainability initiatives on campuses can demonstrate how a given university translates the principles of sustainable development into practice, at the institutional level. Yet, there is a paucity of specific events where a dialogue among sustainability academics and practitioners concerned with a) research, projects b) teaching and c) planning and infra-structure leading to campus greening takes place, so as to allow a transdisciplinary and cross-sectoral exchange of ideas and experiences on the issues, matters and problems at hand. It is against this background that this book has been prepared. It is one of the outcomes of the “First Symposium on Sustainability in University Campuses” (SSUC-2017) organised by the University of São Paulo in Brazil, Manchester Metropolitan University (UK), the Research and Transfer Centre “Applications of Life Sciences” of the Hamburg University of Applied Sciences (Germany), and the Inter-University Sustainable Development Research Programme (IUSDRP). This book showcases examples of campus-based research and teaching projects, regenerative campus design, low-carbon and zero carbon buildings, waste prevention, and resilient transport, among others. It also demonstrates the role of campuses as platforms for transformative social learning and research, and explores the means via which university campuses can be made more sustainable. The aims of this publication are as follows: i. to provide universities with an opportunity to obtain information on campus greening and sustainable campus development initiatives from round the world; ii. to document and promote

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information, ideas and experiences acquired in the execution of research, teaching and projects on campus greening and design, especially successful initiatives and good practice; iii. to introduce methodological approaches and projects which aim to integrate the topic of sustainable development in campus design and operations. This book entails contributions from researchers and practitioners in the field of campus greening and sustainable development in the widest sense, from business and economics, to arts, administration and environment.

Baltimore, like many other cities around the globe, is redesigning local government policy and programs in order to become a more sustainable city. Sustainability, as a concept guiding public action, encourages city officials to integrate policy and programs addressing the economic, environmental, and social health of the community. City governments, including Baltimore, have adopted plans to integrate this new priority into local policy and program management. Reorienting city policy and programs to address an emergent concern like sustainability requires collaboration between city government and various actors and organizations in the community. Collaborative Strategies for Sustainable Cities examines how cities define sustainability and form policy implementation networks to integrate sustainability into city programs. Using the city of Baltimore to describe and analyze the involvement of the participants in local sustainability efforts in rich detail, Eric S. Zeemering argues that when we think about the sustainable city, the city government is not the best unit of analysis for our

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investigations or policy planning. Instead, policy networks within cities carve out slices of a sustainability agenda, define sustainability in their own ways, and form implementation networks with city government officials, neighborhood and community organizations, funders, and state and federal agencies in order to achieve specific goals. When cities begin to integrate sustainability into policies and programs, surveying and understanding competing definitions of sustainability within the community may be central to their success. The book's rich array of data, including qualitative data from elite interviews and public documents, Q-methodology and social network analysis will make for an engaging read to scholars of political science or public affairs as well as the interested citizen or policy advocate.

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 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

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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 in greater depth, exploring how their successes can be used by 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. What can justice and sustainability mean, pragmatically speaking, in today's cities? Can justice be the basis on which the practices of city building rely? Can this recognition constitute sustainability in city building, from a pragmatic perspective? Today, we are faced with a mountain of reasons to lose hope in any prospect of moving closer to justice and sustainability from our present position in civilization. *Pragmatic Justifications for the Sustainable City: Acting in the Common Place* offers a critical and philosophical approach to reevaluating the way in which we think and talk about the "sustainable city" to ensure that we neither lose the thread of our urban history, nor the means to live well amidst diversity of all kinds. By building and rebuilding better habits of urban thinking, this book promotes the reconstruction of moral thinking, paving the way for a new urban sustainability model of justice. Utilizing multidisciplinary case studies and building upon anti-foundationalist

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principles, this book offers a pragmatic interpretation of sustainable development concepts within our emerging global urban context and will be a valuable resource for both undergraduate and postgraduate students, as well as academics and professionals in the areas of urban and planning policy, sociology, and urban and environmental geography.

As global warming advances, regions around the world are engaging in revolutionary sustainability planning - but with social equity as an afterthought. California is at the cutting edge of this movement, not only because its regulations actively reduce greenhouse gas emissions, but also because its pioneering environmental regulation, market innovation, and Left Coast politics show how to blend the "three Es" of sustainability--environment, economy, and equity. *Planning Sustainable Cities and Regions* is the first book to explain what this grand experiment tells us about the most just path moving forward for cities and regions across the globe. The book offers chapters about neighbourhoods, the economy, and poverty, using stories from practice to help solve puzzles posed by academic research. Based on the most recent demographic and economic trends, it overturns conventional ideas about how to build more livable places and vibrant economies that offer opportunity to all. This thought-provoking book provides a framework to deal with the new inequities created by the movement for more livable - and expensive - cities, so that our best plans for sustainability are promoting more equitable development as well. This book will appeal to students of urban studies, urban planning and

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sustainability as well as policymakers, planning practitioners, and sustainability advocates around the world.

Concentrating on the planning and design of cities, the three sections take a logical route through the discussion from the broad considerations at regional and city scale, to the larger city at high and lower densities through to design considerations on the smaller block scale. Key design issues such as access to facilities, access for sunlight, life cycle analyses, and the impact of communications on urban design are tackled, and in conclusion, the research is compared to large scale design examples that have been proposed and/or implemented over the past decade to give a vision for the future that might be achievable.

The implementation of sustainability initiatives on campuses is an essential component of promoting sustainability in the higher education context. In addition to reflecting an awareness of environmental issues, campus programmes demonstrate how seriously universities take sustainability at the institutional level. There is a lack of truly interdisciplinary publications that comprehensively address the issue of campus greening, and there is an even greater need for publications that do so at a truly international level. This book meets these needs. It is one of the outcomes of the “Second Symposium on Sustainability in University Campuses” (SSUC-2018), which was jointly organised by the University of Florence (Italy), Manchester Metropolitan University (UK), the Research and Transfer Centre “Sustainable Development and Climate Change

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Management” and the “European School of Sustainability Science and Research” at the Hamburg University of Applied Sciences (Germany), in cooperation with the Inter-University Sustainable Development Research Programme (IUSDRP). The book showcases examples of campus-based research and teaching projects, regenerative campus design, low-carbon and zero-carbon buildings, waste prevention, and resilient transport, among others. Ultimately, it demonstrates the role of campuses as platforms for transformative social learning and research, and explores the means by which university campuses can be made more sustainable. The aims of this publication are as follows: • to provide universities with essential information on campus greening and sustainable campus development initiatives from around the world; • to share ideas and lessons learned in the course of research, teaching and projects on campus greening and design, especially successful initiatives and good practice; and • to introduce methodological approaches and projects intended to integrate the topic of sustainable development in campus design and operations. This book gathers contributions from researchers and practitioners in the field of campus greening and sustainable development in the widest sense, from business and economics, to the arts, administration and the environment, and hailing from Europe, Latin America, North America and Asia. In cities around the world, digital technologies are utilized to manage city services and infrastructures, to govern urban life, to solve urban issues and to drive local and

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regional economies. While "smart city" advocates are keen to promote the benefits of smart urbanism – increased efficiency, sustainability, resilience, competitiveness, safety and security – critics point to the negative effects, such as the production of technocratic governance, the corporatization of urban services, technological lock-ins, privacy harms and vulnerability to cyberattack. This book, through a range of international case studies, suggests social, political and practical interventions that would enable more equitable and just smart cities, reaping the benefits of smart city initiatives while minimizing some of their perils. Included are case studies from Ireland, the United States of America, Colombia, the Netherlands, Singapore, India and the United Kingdom. These chapters discuss a range of issues including political economy, citizenship, standards, testbedding, urban regeneration, ethics, surveillance, privacy and cybersecurity. This book will be of interest to urban policymakers, as well as researchers in Regional Studies and Urban Planning.

Ecological and technological (eco-tech) planning provides a possible response to the essential issues of sustainability and rehabilitation in rapidly growing urban spaces. *Green and Ecological Technologies for Urban Planning: Creating Smart Cities* addresses the ecological, technological, and social challenges faced in the smart urban planning and design of settlements when using eco-technologies – from sustainable land use to transportation, and from green areas to municipal applications – with a focus on resilience. Containing research from leading international experts, this book

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provides comprehensive coverage and definitions of the most important issues, concepts, trends, and technologies within the planning field.

Can conservation of the built heritage be reconciled with the speed of urban change in cities of the developing world? What are the tools of sustainable design and how can communities participate in the design of the environments in which they live and work? These are some of the questions explored within this innovative and richly illustrated book. A wealth of examples drawn from Mexico, Brazil, Indonesia, Egypt, Saudi Arabia, India and Myanmar demonstrate how rapid physical and social change has swept away historic urban quarters and the cultural heritage they represent. Written in an accessible style the rich mix of concepts, research methods, analysis and practice-based tools is designed for academics and professionals alike. Leading academics Zetter and Watson have produced a fascinating book that is amongst the first to explore the concept of urban sustainability within the context of urban design in the developing world.

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