

# Sustainable Urban Design An Environmental Approach

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*Designing Sustainable Cities* - Rachel Cooper 2009-11-24

This book offers practical solutions to achieving sustainable urban design and development, and helps designers communicate these solutions effectively to planners, developers and policy makers. Addressing sustainability issues in relation to the design and planning of the urban environment is a complex, multi-disciplinary issue and solutions never arrive from a single perspective. The authors use design as a facilitating factor to consider when and by whom decisions that contribute to sustainability are made, and through three major city-centre case studies - London, Manchester and Sheffield - they consider social, environmental and economic factors and examine their relationship to the decision-making process. *Designing Sustainable Cities* begins by identifying the key processes and lead decision-makers. The following chapters develop an understanding of the dimensions of sustainability, presenting the tools by which the dimensions can be analysed. Later chapters illustrate the trade-offs and the relationships between the dimensions of sustainability - with case study examples - as well as the use of IT in making design decisions. Finally, the book makes recommendations for future approaches to the design, development and on-going management of urban environments. *Designing Sustainable Cities* covers: latest research data on the urban environment and the interaction between social, economic and environmental issues methods of understanding the context in which urban design takes place guidance on the codes of practice process maps to help understand the context, make trade-offs and develop design solutions that allow for change methods for testing the consequences of design proposals and monitoring outcomes.

**Urban design. The ecological thinking. A compendium. Ediz. inglese e tedesca** - Dimitra Babalis 2008

*Nature-Based Solutions for More Sustainable Cities* - Edoardo Croci 2021-11-05

*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.

*Designing High-Density Cities* - Edward Ng 2009-12-16

Compact living is sustainable living. High-density cities can support closer amenities, encourage reduced trip lengths and the use of public transport and therefore reduce transport energy costs and carbon emissions. High-density planning also helps to control the spread of urban suburbs into open lands, improves efficiency in urban infrastructure and services, and results in environmental improvements that support higher quality of life in cities. Encouraging, even requiring, higher density urban development is a major policy and a central principle of growth management programmes used by planners around the world. However, such density creates design challenges and problems. A collection of experts in each of the related architectural and planning areas examines these environmental and social issues, and argues that high-density cities are a sustainable solution. It will be essential reading for anyone with an interest in sustainable urban development.

**Retrofitting Cities for Tomorrow's World** - Malcolm Eames 2017-11-13

A groundbreaking exploration of the most promising new ideas for creating the sustainable cities of 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 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 in sustainability, 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.

*Human-Centered Urban Planning and Design in China: Volume II* - Weifeng Li 2021-11-15

This book provides insights and discusses human-centered urban design and placemaking, human activities and urban mobility in China. It argues that sustainable urban design and mobility should be "people-centered" and concerned about "place-making" in the new era of Chinese urbanization. Successful urban design and placemaking should adopt interdisciplinary approaches to planning and designing "space" and "place". A core vision is the delivery of urban spaces that can cater to the needs of an increasingly diverse crowd of urban dwellers calling cities home. The book prompts Chinese urbanists to reconsider and explore a sustainable and people-first planning and design approach with Chinese characteristics. The breadth and depth of this book is of particular interest to those faculty members, students, practitioners and the general public who are interested in subjects like urban design, transport planning, mobility analysis and planning, housing and community development, infrastructure planning, environmental planning, social equity and beyond. This book discussing human-centered urban design and placemaking, human activities and urban mobility is part of a 2 volume set. Volume I deals with human-centered urban planning and development, rural planning and urban-rural coordination in China.

**Nature-based Solutions for Sustainable Urban Planning** - Israa H. Mahmoud 2022

Urban greening policies and measures have recently shown a high potential impact on the design and reshaping of the built environment, especially in urban regeneration processes. This book provides insights on analytical methods, planning strategies and shared governance tools for successfully integrating Nature-Based Solutions (NBS) in the urban planning practice. The selected contributions present real-life application cases, in which the mainstreaming of NBS are investigated according to two main challenges: the planning and designing of physical and spatial integration of NBS in cities on one side, and the implementation of suitable shared governance models and co-creation pathways on the other. Chapter 5 is available open access under a Creative Commons Attribution 4.0 International License via [link.springer.com](http://link.springer.com).

**Sustainable Urban Development Reader** - Stephen M. Wheeler 2014-10-03

Building on the success of its second edition, the third edition of the Sustainable Urban Development Reader provides a generous selection of classic and contemporary readings giving a broad introduction to this topic. It begins by tracing the roots of the sustainable development concept in the nineteenth and twentieth centuries, before presenting readings on a number of dimensions of the sustainability concept. Topics covered include land use and urban design, transportation, ecological planning and restoration, energy and materials use, economic development, social and environmental justice, and green architecture and building. All sections have a concise editorial introduction that places the selection in context and suggests further reading. Additional sections cover tools for sustainable development, international sustainable development, visions of sustainable community and case studies from around the world. The book also includes educational exercises for individuals, university classes, or community groups, and an extensive list of recommended readings. The anthology remains unique in presenting a broad array of classic and contemporary readings in this field, each with a concise introduction placing it within the context of this evolving discourse. The Sustainable Urban Development Reader presents an authoritative overview of the field using original sources in a highly readable format for university classes in urban studies, environmental studies, the social sciences, and related fields. It also makes a wide range of sustainable urban planning-related material available to the public in a clear and accessible way, forming an indispensable resource for anyone interested in the future of urban environments.

**Sustainable Urban Development Volume 1** - Stephen Curwell  
2005-09-09

Based on original research, this first volume of a set of groundbreaking new books sets out a framework for analyzing sustainable urban development and develops a set of protocols for evaluating the sustainability of urban development. Protocols included are for sustainable urban planning, urban property development, urban design, the construction, operation and use of buildings. Using these protocols, the book goes on to provide a directory of environmental assessment methods for evaluating the sustainability of urban development and also maps out how these assessment methods are being transformed to evaluate the environmental, economic and social sustainability of urban development. Web-based applications are increasingly being used to support this transformation and the contributors deftly cover this application and issues concerning the use of information and communication technologies for evaluating the sustainability of urban development are also dealt with. With its multidisciplinary approach, Sustainable Urban Development presents key new material for postgraduates and professionals across the built environment.

Advancing Urban Sustainability in China and the United States - National Academies of Sciences, Engineering, and Medicine 2020-07-04

In November 2018, National Academy of Sciences (NAS) President Marcia McNutt visited China for the first time in her official role. As part of this visit, the National Academies of Sciences, Engineering, and Medicine's Science and Technology for Sustainability (STS) program and the Chinese Academy of Sciences organized a one-day workshop relating to urban sustainability in Beijing. The goal of the visit was to begin to explore some areas where the U.S. National Academies and the Chinese Academy might develop collaboration. At the same time, the trip provided an opportunity to develop links to other parts of the science and technology community in China. To further elucidate some of these issues and build upon current partnerships, an expert committee under the STS program, in collaboration with the Chinese Academy of Sciences, organized a one-day public workshop on urban sustainability in China and the United States, held on December 16, 2019. The workshop focused on the intersection of urban climate change mitigation and adaptation, urban health, and sustainable transportation, including green infrastructure and urban flooding in both countries. This publication summarizes the presentations and discussions from the workshop.

**Sustainable Urban Development: The framework and protocols for environmental assessment** - S. R. Curwell 2005

This book examines the models of sustainable development and sets out a framework for analysing urban development and the sustainability issues which can arise.

Sustainable Urban Metabolism - Paulo Ferrao 2013-08-30

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 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 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 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.

**Human-Centered Urban Planning and Design in China: Volume I** - Weifeng Li 2021-11-15

This book explores a more human-centered development pathway associated with the ideological shift from "quantity" to "quality" growth in the new era of Chinese urbanization. Sustainable urban and rural planning should be "people-centered" and concerned about urban-rural coordination. The authors argue that successful urban and rural development in China should promote social equity, culture diversity, economic prosperity and sustainable built form. This book prompts Chinese urbanists to reconsider and explore a sustainable and people-first planning approach with Chinese characteristics. The breadth and depth of this book is of particular interest to the faculty members, students, practitioners and the general public who are interested in subjects like urban and regional planning, rural planning, housing and community development, infrastructure planning, climate change and ecological planning, environmental planning, social equity and beyond. This book dealing with human-centered urban planning and development, rural planning and urban-rural coordination in China is part of a 2 volume set. Volume II discusses human-centered urban design and placemaking, human activities and urban mobility.

*Net-Positive Design and Sustainable Urban Development* - Janis Birkeland 2020-02-21

'Sustainable' urban planning, policy and design professes to solve sustainability problems, but often depletes and degrades ever more resources and ecosystems and concentrates wealth and concretize social disparities. Positive Development theory holds that development could create more net ecological and social gains than no construction at all. It explains how existing conceptual, physical and institutional structures are inherently biased against the preservation and expansion of social and natural life-support systems, and proposes explicit reforms to planning, design and decision making that would enable development to increase future options and social and natural life-support systems - in absolute terms. Net-Positive Design and Sustainable Urban Development is aimed at students, academics, professionals and sustainability advocates who wonder why existing approaches have been ineffective. It explains how to reform the anti-ecological biases in our current frameworks of environmental governance, planning, decision making and design - and suggests how to make these changes. Cities can increase both the 'public estate' (reduce social stratification, inequity and other causes of conflict, increase environmental quality, wellbeing and access to basic needs, etc.); and the 'ecological base' (sequester more carbon and produce more energy than used during construction and operation, increase ecological space to support ecological carrying capacity, ecosystem functions and services, restore the bioregions and wilderness, etc.). No small task, this new book provides academic theory and professional tools for saving the planet, including a free computer app for net-positive design.

*Sustainable Urban Futures in Africa* - Michael Addaney 2021-12-31

Sustainable Urban Futures in Africa provides a variety of conventional and emerging theoretical frameworks to inform understandings and responses to critical urban development issues such as urbanisation, climate change, housing/slum, informality, urban sprawl, urban ecosystem services and urban poverty, among others, within the context of the sustainable development goals (SDGs) in Africa. This book addresses topics including challenges to spatial urban development, how spatial planning is delivered, how different urbanisation variables

influence the development of different forms of urban systems and settlements in Africa, how city authorities could use old and new methods of land administration to produce sustainable urban spaces in Africa, and the role of local activism in causing important changes in the built environment. Chapters are written by a diverse range of African scholars and practitioners in urban planning and policy design, environmental science and policy, sociology, agriculture, natural resources management, environmental law, and politics. Urban Africa has huge resource potential – both human and natural resources – that can stimulate sustainable development when effectively harnessed. *Sustainable Urban Futures in Africa* provides support for the SDGs in urban Africa and will be of interest to students and researchers, professionals and policymakers, and readers of urban studies, spatial planning, geography, governance, and other social sciences.

**Global Planning Innovations for Urban Sustainability** - Sébastien Darchen 2018-11-01

As the world becomes more urbanised, solutions are required to solve current challenges for three arenas of sustainability: social sustainability, environmental sustainability and urban economic sustainability. This edited volume interrogates innovative solutions for sustainability in cities around the world. The book draws on a group of 12 international case studies, including Vancouver and Calgary in Canada, San Francisco and Los Angeles in the US (North America), Yogyakarta in Indonesia, Seoul in Korea (South-East Asia), Medellin in Colombia (South America), Helsinki in Finland, Freiburg in Germany and Seville in Spain (Europe). Each case study provides key facts about the city, presents the particular urban sustainability challenge and the planning innovation process and examines what trade-offs were made between social, environmental and economic sustainability. Importantly, the book analyses to what extent these planning innovations can be translated from one context to another. This book will be essential reading to students, academics and practitioners of urban planning, urban sustainability, urban geography, architecture, urban design, environmental sciences, urban studies and politics.

Sustainable Urban Design - Adam Ritchie 2013-12-16

By the end of the twenty-first century it is thought that three-quarters of the world's population will be urban; our future is in cities. Making these cities healthy, vibrant and sustainable is an exceptional challenge which this book addresses. It sets out some of the basic principles of the design of our future cities and, through a series of carefully-selected case studies from leading designers' experience, illustrates how these ideas can be put into practice. Building on the first edition's original format of design guidance and case studies, this new edition updates the ideas and techniques resulting from further research and practice by the contributors. This book emphasises the enormous progress made towards exciting new designs that integrate good design with resource efficiency.

Sustainable Urban Planning - Joy Sen 2013-01-01

Developing an approach for sustainable planning framework in the Indian context is extremely complex due to the diversity in the urban and metropolitan regions in the country. *Sustainable Urban Planning* attempts to clarify the planning process and sets a broad framework of urban planning in the country. The book focuses on the planning reality of fundamental dimensions of sustainability and explains a work framework of the dynamics of sustainable planning in India. The present book clarifies the planning process to students, who are trying to work in the Indian context. It presents in three sections a set of interwoven discussions. Section one operates on the corpus of planning reality to disentangle the sutras of fundamental dimensions of sustainability and the interrelationship between these sutras to re-explain a working framework of the dynamics of sustainable planning in India. Section two expands on each of the dimensions, explaining their divergent parameters and their indispensable roles in the making of such a framework. Section three synthesizes all of them to form the framework itself.

**Urban Sustainability in Theory and Practice** - Paul James 2014-09-19

Cities are home to the most consequential current attempts at human adaptation and they provide one possible focus for the flourishing of life on this planet. However, for this to be realized in more than an ad hoc way, a substantial rethinking of current approaches and practices needs to occur. *Urban Sustainability in Theory and Practice* responds to the crises of sustainability in the world today by going back to basics. It makes four major contributions to thinking about and acting upon cities. It provides a means of reflexivity learning about urban sustainability in the process of working practically for positive social development and

projected change. It challenges the usually taken-for-granted nature of sustainability practices while providing tools for modifying those practices. It emphasizes the necessity of a holistic and integrated understanding of urban life. Finally it rewrites existing dominant understandings of the social whole such as the triple-bottom line approach that reduce environmental questions to externalities and social questions to background issues. The book is a much-needed practical and conceptual guide for rethinking urban engagement. Covering the full range of sustainability domains and bridging discourses aimed at academics and practitioners, this is an essential read for all those studying, researching and working in urban geography, sustainability assessment, urban planning, urban sociology and politics, sustainable development and environmental studies.

**Sustainable Urbanism** - Douglas Farr 2008

This title provides clear direction for urban designers, urban planners, and architects to design cities and developments that are sustainable and reduce environmental harms. The text includes background on sustainability, standards for sustainable urbanism, and case studies of exemplars of sustainable urban design.

Regenerative-Adaptive Design for Sustainable Development - Phillip B. Roös 2020-09-15

In this book, the author tests a regenerative-adaptive pattern language theory towards investigating the possibilities of a holistic, integrated design and planning method for sustainable development that incorporates the principles of regenerative design, as well as an adaptive pattern language that re-establishes our wholeness with nature, and considers the vulnerabilities of a changing landscape. The book examines an integral approach to contemporary theories of planning and design that explores the human-nature relationship patterns in social and spatial interconnections, between people and their natural environments. The interconnectedness of human and natural systems is used to scaffold possible solutions to address key environmental and sustainability issues that specifically address the need for patterns of behaviour that acknowledge the duality of 'man and nature'. In 12 chapters, the book presents a holistic, regenerative-adaptive pattern language that encapsulates how communities can better appreciate landscape change under future climate effects, and acknowledges the importance to adapt to patterns of change of place and the environment and therefore inform the communities' responses for sustainable development. The application of the regenerative-adaptive pattern language was tested along the Great Ocean Road region of the Victorian coast in Australia. The concluding chapters argue that for human settlements and cities to be resilient and sustainable, we must understand the interconnected patterns of human-built environments and natural systems, and how we function in a social-spatial dimension with these. The book is intended for practitioners and academic scholars with interest in sustainable development, regenerative design, pattern languages, biophilia, settlement planning, and climate change adaptation.

**Pathways to Urban Sustainability** - National Academies of Sciences, Engineering, and Medicine 2016-11-11

Cities have experienced an unprecedented rate of growth in the last decade. More than half the world's population lives in urban areas, with the U.S. percentage at 80 percent. Cities have captured more than 80 percent of the globe's economic activity and offered social mobility and economic prosperity to millions by clustering creative, innovative, and educated individuals and organizations. Clustering populations, however, can compound both positive and negative conditions, with many modern urban areas experiencing growing inequality, debility, and environmental degradation. The spread and continued growth of urban areas presents a number of concerns for a sustainable future, particularly if cities cannot adequately address the rise of poverty, hunger, resource consumption, and biodiversity loss in their borders. Intended as a comparative illustration of the types of urban sustainability pathways and subsequent lessons learned existing in urban areas, this study examines specific examples that cut across geographies and scales and that feature a range of urban sustainability challenges and opportunities for collaborative learning across metropolitan regions. It focuses on nine cities across the United States and Canada (Los Angeles, CA, New York City, NY, Philadelphia, PA, Pittsburgh, PA, Grand Rapids, MI, Flint, MI, Cedar Rapids, IA, Chattanooga, TN, and Vancouver, Canada), chosen to represent a variety of metropolitan regions, with consideration given to city size, proximity to coastal and other waterways, susceptibility to hazards, primary industry, and several other factors.

Urban Blue Spaces - Simon Bell 2021-09-30

This book presents an evidence-based approach to landscape planning

and design for urban blue spaces that maximises the benefits to human health and well-being while minimising the risks. Based on applied research and evidence from primary and secondary data sources stemming from the EU-funded BlueHealth project, the book presents nature-based solutions to promote sustainable and resilient cities. Numerous cities around the world are located alongside bodies of water in the form of coastlines, lakes, rivers and canals, but the relationship between city inhabitants and these water sources has often been ambivalent. In many cities, water has been polluted, engineered or ignored completely. But, due to an increasing awareness of the strong connections between city, people, nature and water and health, this paradigm is shifting. The international editorial team, consisting of researchers and professionals across several disciplines, leads the reader through theoretical aspects, evidence, illustrated case studies, risk assessment and a series of validated tools to aid planning and design before finishing with overarching planning and design principles for a range of blue-space types. Over 200 full-colour illustrations accompany the case-study examples from geographic locations all over the world, including Portugal, the United Kingdom, China, Canada, the US, South Korea, Singapore, Norway and Estonia. With green and blue infrastructure now at the forefront of current policies and trends to promote healthy, sustainable cities, *Urban Blue Spaces* is a must-have for professionals and students in landscape planning, urban design and environmental design. Open Access for the book was funded by the European Union's Horizon 2020 research and innovation programme under grant agreement No 666773

**Urban Challenges and Urban Design Approaches for Resource-Efficient and Climate-Sensitive Urban Design in the MENA Region**

- Elke Pahl-Weber 2013-06-10

In an era defined by climate change, huge resource consumption, a lack of social cohesion, rapidly accelerating technological innovations, economic shifts, and the transformation of political systems, solutions must be pursued at every level of action. This book shows how solutions from urban design and planning can, by integrating the approaches of multiple disciplines, be the first steps toward envisioning the sustainable, energy-efficient, and climate-sensitive city of the future. This book is compiled for readers from a range of professional backgrounds. Its intended audience includes the government bodies, municipalities, urban planners, engineers, architects, civil servants, and citizens who are part of urban development, from initiation through implementation. The facts and findings presented herein are relevant to any national or international debate concerning urban development which aims to create sustainable, resource-efficient, and climate-sensitive urbanization processes. The text and visuals of this book are intended to serve as a comprehensive decision support tool, taking into account that current and future urban challenges and planning tasks can only be tackled through an interlinked and stakeholder driven iterative process. As a result of the Young Cities research project, this book acts as a multilayered reference manual by providing: (a) a brief outline of the MENA region's urban challenges; (b) a proposal for generic principles and actions for creating an energy- and resource-efficient as well as environmentally sustainable urban environment; (c) the opportunities and impacts of each discipline involved in an integrated planning process; and (d) the findings of the applied principles in the 35 ha "Shahre Javan Community" pilot project.

*Sustainable Urban Development: The environmental assessment methods*  
- S. R. Curwell 2005

This second title of a three-volume series based on research by the influential BEQUEST network examines the methodology of environmental assessment, providing unique insight into critical aspects to sustainable urban development.

*Sustainable Approaches to Urban Transport* - Dinesh Mohan 2019-07-02

As cities become increasingly congested, current transport patterns are unsustainable: heavy in energy use, high in economic and environmental cost, and exacerbating inequity between those who can access high-speed travel and those who cannot. Good urban planning develops human-scale cities and encourages modes such as bicycles, increased zones exclusive to pedestrians within cities, and changed fiscal policies to incentivize public over private transport. Equally, it requires good engineering design to manage road use. *Sustainable Approaches to Urban Transport* brings together contributions from leading international experts in urban planning, transport, and governance who suggest changes to make our cities more sustainable in the face of climate change. All professionals working in transport and engineering and planning students will find an overview of a broad field in this

interdisciplinary collection of essays.

*Public Places - Urban Spaces* - Tim Heath 2011-02-07

*Public Places Urban Spaces, 2e*, is a thorough introduction to the principles of urban design theory and practice. Authored by experts in the fields of urban design and planning, it is designed specifically for the 2,500 postgraduate students on Urban Design courses in the UK, and 1,500 students on undergraduate courses in the same subject. The 2e of this tried and trusted textbook has been updated with relevant case studies to show students how principles have been put into practice. The book is now in full color and in a larger format, so students and lecturers get a much stronger visual package and easy-to-use layout, enabling them to more easily practically apply principles of urban design to their projects. Sustainability is the driving factor in urban regeneration and new urban development, and the new edition is focused on best sustainable design and practice. *Public Places Urban Spaces* is a must-have purchase for those on urban design courses and for professionals who want to update and refresh their knowledge.

*Sustainable Urban Neighbourhood* - David Rudlin 2009

'*Sustainable Urban Neighbourhood*' explores the way that the UK's towns and cities are changing at the turn of the millennium. Previously known as 'Building the 21st Century Home', the second edition of this successful text describes the way that environmental and demographic change, economic pressures and the needs of community could change urban areas forever just as the garden city movement did a century ago. Some of the arguments that were so contentious ten years ago are now widely accepted. Others rumble on, particularly after another property crash that has hit urban apartments. The central point, however, remains; urban renaissance will not be achieved by coercion but by the creation of positive urban models. Through case studies, the book describes one such model, the Sustainable Urban Neighbourhood: mixed-use, medium density urban development, designed to minimise resource use and maximise community. This classic text will be essential reading for urban designers, architects and planners, and anyone involved in the development of new homes and the regeneration of towns and cities. \* Links social, environmental and economic factors with urban design for a fresh approach \* Grounded in practical realities of development.

Visionary, whilst also putting theory into practice \* Provides a model for sustainable reform by showing how architects work with existing planning laws and environments to improve site plans

*Sustainable Urban Design* - Adam Ritchie 2009

Written by recognized experts in the field, this text focuses on the physical aspects of the urban environment - the buildings and their engineering systems, landscaping, transport systems, energy, water and waste systems.

*Sustaining Cities* - Josef Leitmann 1999

Meet the "brown agenda" challenge of fast-growing cities. Planning and development professionals who need to cope with the problems of increasing urbanization will find practical tools in Joseph Leitmann's *Sustaining Cities: Environmental Planning and Management in Urban Design*. This unique reference explores the highest priority problems - sanitation and drainage, solid waste management, degradation of environmentally sensitive land, uncontrolled emissions, accidents linked to congestion, and improper disposal of hazardous waste, problems that result in poor health, lower productivity, reduced income and quality of life. It's the first book to give you realistic, innovative, in-depth options that you can use on a day-to-day basis, with examples from many parts of the world. You get a proven planning framework and strategic approach for addressing the environmental issues confronting and caused by cities, and resources you can turn to for more help, information, and training.

*Urban Sustainability Through Environmental Design* - Kevin Thwaites 2007-12-06

What can architects, landscape architects and urban designers do to make urban open spaces, streets and squares, more responsive, lively and safe? *Urban Sustainability through Environmental Design* answers this question by providing the analytical tools and practical methodologies that can be employed for sustainable solutions to the design and management of urban environments. The book calls into question the capability of 'quick-fix' development solutions to provide the establishment of fixed communities and suggests a more time-conscious and evolutionary approach. This is the first significant book to draw together a pan-European view on sustainable urban design with a specific focus on social sustainability. It presents an innovative approach that focuses on the tools of urban analysis rather than the interventions themselves. With its practical approach and wide-ranging discussion, this

book will appeal to all those involved in producing communities and spaces for sustainable living, from students to academics through to decision makers and professional leaders.

**Approaches to Water Sensitive Urban Design** - Ashok Sharma 2018-09  
Approaches to Water Sensitive Urban Design: Potential, Design, Ecological Health, Economics, Policies and Community Perceptions covers all aspects on the implementation of sustainable storm water systems for urban and suburban areas whether they are labeled as WSUD, Low Impact Development (LID), Green Infrastructure (GI), Sustainable Urban Drainage Systems (SUDS) or the Sponge City Concept. These systems and approaches are becoming an integral part of developing water sensitive cities as they are considered very capable solutions in addressing issues relating to urbanization, climate change and heat island impacts in dealing with storm water issues. The book is based on research conducted in Australia and around the world, bringing in perspectives in an ecosystems approach, a water quality approach, and a sewer based approach to stormwater, all of which are uniquely covered in this single resource. Presents a holistic examination of the current knowledge on WSUD and storm water, including water quality, hydrology, social impacts, economic impacts, ecosystem health, and implementation guidelines Includes additional global approaches to WSUD, including SUDS, LID, GI and the Sponge City Concept Covers the different perspectives from Australia (ecosystem based), the USA (water quality based) and Europe (sewer based) Addresses storm water management during the civil construction stage when much of the ecological damage can be done

**Designing Sustainable Cities** - Sigrid Bürstmayr 2020-06-08

In view of the fact that, by 2050, 70% of the world's population will live in cities, the subject of "sustainable urban design" is an important issue for UNESCO's Cities of Design. Taking into account that urban design can make a significant contribution to positive changes in environmental and social matters, the book presents seven inspirational examples for copying; included are analyses and measures for the cities of Detroit, Graz, Istanbul, Mexico City, and Puebla, as well as non-location bound projects. The authors investigate the efficiency of certificates, climate installations for urban spaces, and new ecological, architectural, and sociological concepts for mega-cities. A reader for stakeholders at the interface of social and urban design.

**Urban Design: Method and Techniques** - Rafael Cuesta 2012-09-11

This book deals with a wide range of techniques used in the urban design process. It then goes on to relate these techniques to a unique, comprehensive account of method. A method of urban design is developed which has sustainability and environmental protection at the centre of its philosophy. Previously, literature regarding the urban design method has been almost totally neglected; this book introduces the topic to the reader. This revised Second Edition encompasses the latest techniques including the development of geographic information systems and financial techniques which help evaluate projects. A number of techniques are illustrated by example or case study. Where techniques are discussed they are located within the structure of the design process. The book develops a logical framework for a process, which includes problem definition, survey, analysis, concept generation, evaluation and implementation. It is this framework which leads toward the development of an urban design method. This book is a practical guide for students or professionals in the early part of their careers. It is organized so that each chapter provides guidance which readers would have otherwise had to discover for themselves, often with some difficulty.

**Computer Modelling for Sustainable Urban Design** - Darren Robinson 2012-11-12

This is the first book to directly address the physics of urban sustainability and how urban sustainability may be modelled and optimised. Starting with an introduction to the importance and key aspects of the topic, it moves on to a detailed consideration of the urban climate and pedestrian comfort. Comprehensive techniques for the modelling and optimisation of urban metabolism are then described, together with means for defining sustainability as the fitness function to be optimised. It ends with an eye to the future of sustainable urban design and the means available to urban designers and governors to help them to secure a more sustainable urban future. This book will be invaluable both in informing the next generation of urban planners, architects and engineers, and as a tool to current professionals that will directly contribute to the effectiveness of their work by allowing them to more successfully measure and model urban sustainability.

**Growing Compact** - Joo Hwa P. Bay 2017-07-06

Growing Compact: Urban Form, Density and Sustainability explores and unravels the phenomena, links and benefits between density, compactness and the sustainability of cities. It looks at the socio-climatic implications of density and takes a more holistic approach to sustainable urbanism by understanding the correlations between the social, economic and environmental dimensions of the city, and the challenges and opportunities with density. The book presents contributions from internationally well-known scholars, thinkers and practitioners whose theoretical and practical works address city planning, urban and architectural design for density and sustainability at various levels, including challenges in building resilience against climate change and natural disasters, capacity and integration for growth and adaptability, ageing, community and security, vegetation, food production, compact resource systems and regeneration.

**Fundamentals of Sustainable Urban Design** - Avi Friedman 2020-12-10

This book begins with an introduction describing current societal transformations that merit new urban designs, including depletion of non-renewable natural resources, elevated levels of greenhouse gas emissions, large numbers of aging "Baby Boomers," and climate change. Dr. Friedman then examines these challenges through thirty chapters of interest to urban designers, architects, civil and construction engineers, and town planners. Each of these topics represents an aspect of urban design and describes an innovative solution and offers a detailed description of underlying principles. The highly illustrated text presents innovative urban design strategies based on sustainable principles. Integrated with each chapter are several international case studies illustrating design implementations.

**Designing the City** - Hildebrand Frey 2003-09-02

Designing the City looks at current urban problems in cities and demonstrates how effective urban design can address social, economic and environmental issues as well as the physical planning at local level. The book is highly visual and illustrates the topic with a variety of sketches, line drawings, axonometrics and models. The author draws upon the valuable experience gained by the City of Glasgow and compares its solutions - successful and less successful - with projects in a variety of European countries.

**Greening Affordable Housing** - Abdullateef Olanrewaju 2019-01-30

Books on green building theories, principles and strategies applicable to life cycles of all kinds of buildings and building types are already widely available. However, those specifically on greening affordable housing that guide various housing stakeholders at different life cycles are still very limited. This book intends to fill this gap. Integrating green building enables stakeholders to address the environmental component that has not traditionally been seen as an integral part of affordable housing development. The book presents theories and principles with practical methods, strategies and processes not only to make affordable housing green but also to support economic stability and social equity.

**Sustainable Urban Environments** - Ellen M. van Bueren 2011-09-15

The urban environment - buildings, cities and infrastructure - represents one of the most important contributors to climate change, while at the same time holding the key to a more sustainable way of living. The transformation from traditional to sustainable systems requires interdisciplinary knowledge of the re-design, construction, operation and maintenance of the built environment. Sustainable Urban Environments: An Ecosystem Approach presents fundamental knowledge of the built environment. Approaching the topic from an ecosystems perspective, it shows the reader how to combine diverse practical elements into sustainable solutions for future buildings and cities. You'll learn to connect problems and solutions at different spatial scales, from urban ecology to material, water and energy use, from urban transport to livability and health. The authors introduce and explore a variety of governance tools that support the transformation process, and show how they can help overcome institutional barriers. The book concludes with an account of promising perspectives for achieving a sustainable built environment in industrialized countries. Offering a unique overview and understanding of the most pressing challenges in the built environment, Sustainable Urban Environments helps the reader grasp opportunities for integration of knowledge and technologies in the design, construction and management of the built environment. Students and practitioners who are eager to look beyond their own fields of interest will appreciate this book because of its depth and breadth of coverage.