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# Sustainable Urban Design An Environmental Approach

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Urban Sustainability in Theory and Practice  
Policies, Instruments and Methods in an International Perspective  
Towards a Liveable and Sustainable Urban Environment  
A Methodology for Sustainable Urban Planning  
Sustainable Urbanism  
Designing the City  
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Accessible, Green and Fair  
Towards a More Sustainable Urban Form  
Fundamentals of Sustainable Urban Design  
Computer Modelling for Sustainable Urban Design  
Manageable Approaches to Make Urban Spaces Better  
Urban Systems Design  
Designing Sustainable Cities

Neoliberalism, New Urbanism and Sustainable Urban Design in Cleveland, Ohio  
Approaches to Time-People-Place Responsive Urban Spaces  
Creating Sustainable Smart Cities in the Internet of Things Era  
Advancing Urban Sustainability in China and the United States  
Physical Principles, Methods and Applications  
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Sustainable Urban Development: The framework and protocols for environmental  
assessment  
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Approaches to Time-People-Place Responsive Urban Spaces  
Sustainable Urban Development Volume 1  
Net-Positive Design and Sustainable Urban Development  
Sustainability in Architecture and Urban Design

Sustainable Urban Environments  
Achieving Sustainable Urban Form  
Urban Environmental Planning  
Urban Sustainability Through Environmental Design  
Regenerative Urban Design and Ecosystem Biomimicry

*Sustainable Urban  
Design An  
Environmental  
Approach*

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*Urban Sustainability in Theory and  
Practice* World Scientific

Originally published in 1997, *Urban Environmental Planning* provides a groundbreaking overview of innovative methods and techniques for measuring and managing the environmental effects of urban land uses on other urban activities. Fully revised and updated, this

second edition brings together a team of leading environmental planners and policy makers from the US, UK, Europe and SE Asia to address the central questions confronting sustainable urban development. Typical questions include: How can you measure and manage the negative environmental effects of intrusive urban activities such as manufacturing and transport on sensitive land uses including residential and recreational areas? Can a balance be found between reducing these effects through means such as separating

conflicting land uses? While other sources identify the need for effective programmes to improve urban environmental quality, this volume describes and assesses analytical methods and implementing programmes practised by leading communities around the world.

*Policies, Instruments and Methods in an International Perspective* Routledge

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.

**Towards a Liveable and Sustainable Urban Environment** Springer Science & Business Media

*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.

**A Methodology for Sustainable Urban Planning** Taylor & Francis  
Urban Systems Design: Creating Sustainable Smart Cities in the Internet of Things Era shows how to design, model and monitor smart communities using a distinctive IoT-based urban systems approach. Focusing on the essential dimensions that constitute smart communities energy, transport, urban form, and human comfort, this helpful guide explores how IoT-based sharing platforms can achieve greater

community health and well-being based on relationship building, trust, and resilience. Uncovering the achievements of the most recent research on the potential of IoT and big data, this book shows how to identify, structure, measure and monitor multi-dimensional urban sustainability standards and progress. This thorough book demonstrates how to select a project, which technologies are most cost-effective, and their cost-benefit considerations. The book also illustrates the financial, institutional, policy and technological needs for the successful transition to smart cities, and concludes by discussing both the conventional and innovative regulatory instruments needed for a fast and smooth transition to smart, sustainable communities.

Provides operational case studies and best practices from cities throughout Europe, North America, Latin America, Asia, Australia, and Africa, providing instructive examples of the social, environmental, and economic aspects of “smartification Reviews assessment and urban sustainability certification systems such as LEED, BREEAM, and CASBEE, examining how each addresses smart technologies criteria Examines existing technologies for efficient energy management, including HEMS, BEMS, energy harvesting, electric vehicles, smart grids, and more

**Sustainable Urbanism** MIT Press  
 '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.

*Designing the City* Policy Press

A textbook that introduces integrated, sustainable design of urban infrastructures, drawing on civil engineering, environmental engineering, urban planning, electrical engineering, mechanical engineering, and computer science. This textbook introduces urban infrastructure from an engineering perspective, with an emphasis on sustainability. Bringing together both fundamental principles and practical knowledge from civil engineering, environmental engineering, urban planning, electrical engineering, mechanical engineering, and computer science, the book transcends disciplinary

boundaries by viewing urban infrastructures as integrated networks. The text devotes a chapter to each of five engineering systems—electricity, water, transportation, buildings, and solid waste—covering such topics as fundamentals, demand, management, technology, and analytical models. Other chapters present a formal definition of sustainability; discuss population forecasting techniques; offer a history of urban planning, from the Neolithic era to Kevin Lynch and Jane Jacobs; define and discuss urban metabolism and infrastructure integration, reviewing system interdependencies; and describe approaches to urban design that draw on complexity theory, algorithmic models, and machine learning. Throughout, a hypothetical city state, Civitas, is used to

explain and illustrate the concepts covered. Each chapter includes working examples and problem sets. An appendix offers tables, diagrams, and conversion factors. The book can be used in advanced undergraduate and graduate courses in civil engineering and as a reference for practitioners. It can also be helpful in preparation for the Fundamentals of Engineering (FE) and Principles and Practice of Engineering (PE) exams.

Rethinking Redevelopment Routledge

This article explores unintended consequences of recent urban design initiatives in Cleveland, Ohio. Historically rife with environmental injustice issues, Cleveland's built environment continues to exhibit issues of distributive justice across racialized spaces. In this research



project, I first investigate whether and how New Urbanist aesthetics are geared towards a white spatial imaginary and subsequently deconstructing its whiteness. I seek to answer : is New Urbanism inherently racist? I then explore how New Urbanism in the U.S. has spread into circles of sustainable urban design, pushing space and place towards a homogenized normativity. Third, I examine the history of racial prejudice in urban planning in Cleveland. Lastly, I analyze census data surrounding neighborhoods in which sustainable urban design initiatives have been implemented or are underway. In analyzing how these neighborhoods are changing as a result of these initiatives, I look for the presence of New Urbanist aesthetics or the realization of some

their principles and theory. I hope to uncover some of the indirect effects of projects deemed sustainable. The purpose of this project is to look critically at initiatives that are gauged as sustainable, widening the discussion of sustainability in planning and architecture to purposefully encompass factors related to social equity and justice, beyond the ones related to environmental sustainability.

The Sustainable City VII National Academies Press

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.

*Accessible, Green and Fair* Routledge  
In this book, the second of a three-volume series, leading authorities on the

methodology of environmental assessment provide a unique insight into questions of critical importance to sustainable urban development. Using the framework and protocols set out in Volume 1, Volume 2 examines how well the environmental assessment methods evaluate the ecological integrity of urban development and equity of the resulting resource distribution. The examination focuses on: the instruments of environmental assessment approaches to environmental assessment based in systems-thinking methods for environmental, economic and social assessments their use in evaluating the sustainability of urban development. The Sustainable Urban Development Series contains the research and debate of the BEQUEST (Building, Environmental

Quality Evaluation for Sustainability) network funded by the European Commission. Together the books provide a framework, set of protocols, environmental assessment methods and toolkit for policy makers, academics, professionals and advanced level students in urban planning and studies, as well as other areas of the built environment.

### **Towards a More Sustainable Urban Form** Routledge

'Sustainable development' is a key issue of concern to urban planners across the globe. How it is defined, implemented and measured at the local level remains highly contested and subject to a wide range of external cultural, political and economic pressures. Bringing together leading experts from North America,

Europe, the Middle East and SE Asia, this book provides a timely overview of the various methods for understanding and implementing sustainable practices at local levels. In doing so, they present the wide range of local action alternatives available to planners that may be pursued in spite of the constraints generated by globalization processes and highlight the array of public policy options that could reduce the external pressures shaping the possible local alternatives. The book argues that, while local planners and local authorities are willing to act, many are unaware of the range of options available to them. In bringing together these case studies, not only diverse in geographic terms, but also reflecting very different levels of income, general population education,

cultural norms, legal systems and government structures, it points out innovations and examples of best practice.

*Fundamentals of Sustainable Urban Design* Ashgate Publishing, Ltd.

Sustainability in Architecture and Urban Design will help you understand the nature of the sustainability problem and show you how to implement your design for a sustainable future. Organized in six parts, the problem, the environment, the residential scale, the commercial scale, the urban scale, and energy sources, the book presents essential information in context, so that you get the full picture. Hundreds of drawings, sketches, charts, and diagrams illustrate points author Carl Bovill makes in his clear and direct style, which communicates the basics in

a concise way. You'll learn: -About environmental economics -How sustainable architectural design relates to ecology -How fractal geometry can lead to a new understanding of the structure of the world around us -How to design energy efficient houses and commercial buildings -How to design and live in our cities to lower energy use per person -About LEED points at all scales A glossary and reading lists encourage you to explore the topics further.

Computer Modelling for Sustainable Urban Design John Wiley & Sons

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.

Manageable Approaches to Make Urban Spaces Better Routledge

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.

Urban Systems Design National Academies Press

This book explains how learning from past mistakes in urban design can help to enhance sustainable cities and how the principles of Green Urbanism can yield more resilient urban settlements. Environmental design is a fundamental principle in shaping cities. However, environmental challenges like increased resource consumption, water degradation and waste-related issues are among the greatest problems now

facing humanity - which is why these issues need to be considered with regard to "smart cities," either for the development of new urban centers or for the transformation of existing cities. The book not only discusses the importance of integrating sustainability principles in the urban design process, but also demonstrates their application to the development of sustainable cities. As such, the book offers essential information and a source of inspiration for all those who want to build more sustainable cities.

Designing Sustainable Cities Routledge  
Makes a significant contribution to the sustainable urbanisation agenda through authoritative interventions contextualising, assessing and explaining the relevance and importance

of three central characteristics of sustainable towns and cities everywhere; that they be accessible, green and fair. *Neoliberalism, New Urbanism and Sustainable Urban Design in Cleveland, Ohio* Birkhäuser

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.

**Approaches to Time-People-Place Responsive Urban Spaces** Taylor & Francis

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 Design presents key new material for postgraduates and professionals across the built environment.

**Creating Sustainable Smart Cities in the Internet of Things Era** Sustainable Urban Design An Environmental Approach

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

*Advancing Urban Sustainability in China and the United States* Routledge  
With cities rapidly encroaching onto

surrounding lands, the notion of eco-city proposes an innovative yet pragmatic approach to designing, building and operating cities in a way that the destructive impact of human urban activity upon nature will be significantly reduced. This book comprises of papers from a workshop organized by the East Asian Institute on Eco-cities in East Asia on 27 February 2009 in Singapore. Contributed by scholars, officials and environmental specialists from Japan, China, Malaysia, Indonesia, Thailand and the Philippines, the papers focus on how individual governments in these countries undertake eco-city projects. The book also highlights best practices that are useful to policy makers and anyone else who seeks to learn from the experiences of other countries in order

to reduce their ecological footprints.

*Physical Principles, Methods and Applications* Taylor & Francis

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.

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