Urban Sustainability Through Environmental Design Approaches To Time People Place Responsive Urban Spaces

Yeah, reviewing a ebook urban sustainability through environmental design approaches to time people place responsive urban spaces could mount up your close associates listings. This is just one of the solutions for you to be successful. As understood, finishing does not recommend that you have fantastic points.

Comprehending as competently as arrangement even more than supplementary will have the funds for each success. next to, the publication as without difficulty as perspicacity of this urban sustainability through environmental design approaches to time people place responsive urban spaces can be taken as well as picked to act.

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.

Sustainable Urbanism - Douglas Farr
2012-01-09 Written by the chair of the LEED-Neighborhood Development (LEED-ND) initiative, Sustainable Urbanism: Urban Design with Nature is both an urgent call to action and a comprehensive introduction to "sustainable urbanism"--the emerging and growing design reform movement that combines the creation and enhancement of walkable and diverse places with the need to build high-performance infrastructure and buildings. Providing a historic perspective on the standards and regulations that got us to where we are today in terms of urban lifestyle and attempts at reform, Douglas Farr makes a powerful case for sustainable urbanism, showing where we went wrong, and where we need to go. He then explains how to implement sustainable urbanism through leadership and communication in cities, communities, and neighborhoods. Essays written by Farr and others delve into such issues as: Increasing sustainability through density. Integrating transportation and land use. Creating sustainable neighborhoods, including housing, car-free areas, locally-owned stores, walkable neighborhoods, and universal accessibility. The health and environmental benefits of linking humans to nature, including walk-to open spaces, neighborhood stormwater systems and waste treatment, and food production. High performance buildings and district energy systems. Enriching the argument are in-depth case studies in sustainable urbanism, from BedZED in London, England and Newington in Sydney, Australia, to New Railroad Square in Santa Rosa, California and Dongtan, Shanghai, China. An epilogue looks to the future of sustainable urbanism over the next 200 years. At once solidly researched and passionately argued, Sustainable Urbanism is the ideal guidebook for urban designers, planners, and architects who are eager to make a positive impact on our--and our descendants'--buildings, cities, and lives.
Urban Sustainability Through Environmental Design- 2007

Pathways to Urban Sustainability-National Academies of Sciences, Engineering, and Medicine 2016-10-11 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.

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.

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.

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.

Sustainable Urbanization-Mustafa Ergen
2016-09-28 The rapid urbanization that began with industrialization has begun to cause many problems. New approaches are emerging today to minimize these problems and make urban areas more livable. These problems include insufficient social facilities in urban areas for increasing populations due to migration and unbalanced use of green areas, water, and energy resources due to urbanization. Careless consumption and the pollution of natural resources will cause people many more problems in the future than they do today in urban development. Many professional disciplines have noticed this unbalanced development in urban areas. Urban areas have larger populations than rural areas today. Urban areas are developed neglectfully. Sustainability is needed as a criterion for urban areas to develop in a more livable and healthy fashion. Sustainable urban development approaches are seen in many fields, ranging from land use to the use of natural resources in urban areas.

Sustainable Stockholm-Jonathan Metzger
2013-07-24 Sustainable Stockholm provides a historical overview of Stockholm’s environmental development, and also discusses a number of cross-disciplinary themes presenting the urban sustainability work behind Stockholm’s unique position, and importantly the question of how well Stockholm’s practices can be exported and transposed to other places and contexts. By using the case of Stockholm as the pivot of discussions, Sustainable Stockholm investigates the core issues of sustainable urban environmental development and planning, in all their entanglements. The book shows how intersecting fields such as urban planning and architecture, traffic planning, land-use regulation, building, waste management, regional development, water management, infrastructure engineering—together and in combination—have contributed to making Stockholm Europe’s “greenest” city.

Governance for Urban Sustainability and Resilience-Jeroen van der Heijden 2014-10-31 Cities, and the built environment more broadly, are key in the global response to climate change. This groundbreaking book seeks to understand what governance tools are best suited for achieving cities that are less harmful to the natural environment.

Designing Sustainable Cities-Rachel Cooper
2009-11-24 This book offers practical solutions to achieving sustainable urbandesign and development, and helps designers communicate thesesolutions effectively to planners, developers and policy makers. Addressing sustainability issues in relation to the design andplanning of the urban environment is a complex, multidisciplinary issue and solutions never arrive from a single perspective. The authors use design as a facilitating factor to consider when and bywhom decisions that contribute to sustainability are made, andthrough three major city-centre case studies - London, Manchester and Sheffield - they consider social, environmental andeconomic factors and examine their relationship to the decision-making process. Designing Sustainable Cities begins by identifying thekey processes and lead decision-makers. The following chaptersdevelop 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 and monitoring outcomes.
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.

Nature Based Strategies for Urban and Building Sustainability - Gabriel Perez
2018-02-14 Nature Based Strategies for Urban and Building Sustainability reviews the current state-of-the-art on the topic. In the introduction, the editors review the fundamental concepts of nature elements in the built environment, along with the strategies that are necessary for their inclusion in buildings and cities. Part One describes strategies for the urban environment, discussing urban ecosystems and ecosystem services, while Part Two covers strategies and technologies, including vertical greening systems, green roofs and green streets. Part Three covers the quantitative benefits, results, and issues and challenges, including energy performances and outdoor comfort, air quality improvement, acoustic performance, water management and biodiversity. Provides an overview of the different strategies available to integrate nature in the built environment. Presents the current state of technology concerning systems and methodologies on how to incorporate nature in buildings and cities. Features the latest research results on operation and ecosystem services. Covers both established and new designs, including those still in the experimental stage.

Urban Sustainability - Igor Vojnovic 2013
More than half the world’s population currently lives in urban areas, and virtually all of the world’s population growth over the next three decades is expected to be in cities. What impact will this growth have on the environment? What can we do now to pave the way for resource longevity? Sustainability has received considerable attention in recent years, though conceptions of the term remain vague. Using a wide array of cities around the globe as case studies, this timely book explores the varying nature of global urban-environmental stresses and the complexities involved in defining sustainability policies. Working with six core themes, the editor examines the past, present, and future of urban sustainability within local, national, and global contexts.

Urban Engineering for Sustainability - Sybil Derrible
2019-12-03 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.
Designing Sustainable Cities in the Developing World-Georgia Butina Watson 2016-04-22 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.

Urban Systems Design-Yoshiki Yamagata 2020-02-11 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

Sustainability Assessments of Urban Systems-Claudia R. Binder 2020-02-29 Provides guidelines for assessing the sustainability of urban systems including theory, methods and case studies.

Net-Positive Design and Sustainable Urban Development-Janis Birkeland 2020-02-19 '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 Nation** - Douglas Farr 2018-02-23

PROSE Award Finalist 2019 Association of American Publishers Award for Professional and Scholarly Excellence

As a follow up to his widely acclaimed Sustainable Urbanism, this new book from author Douglas Farr embraces the idea that the humanitarian, population, and climate crises are three facets of one interrelated human existential challenge, one with impossibly short deadlines. The vision of Sustainable Nation is to accelerate the pace of progress of human civilization to create an equitable and sustainable world. The core strategy of Sustainable Nation is the perfection of the design and governance of all neighborhoods to make them unique exemplars of community and sustainability. The tools to achieve this vision are more than 70 patterns for rebellious change written by industry leaders of thought and practice. Each pattern represents an aspirational, future-oriented ideal for a key aspect of a neighborhood. At once an urgent call to action and a guidebook for change, Sustainable Nation is an essential resource for urban designers, planners, and architects.

**How Green Is the City?** - Dimitri Devuyst 2001-08-01

This book deals with practical ways to reach a more sustainable state in urban areas through such tools as strategic environmental assessment, sustainability assessment, direction analysis, baseline setting and progress measurement, sustainability targets, and ecological footprint analysis.

**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.

**Planning and Design Strategies for Sustainability and Profit** - Adrian C. Pitts 2004

This practical guide demonstrates the benefits of sustainable design by emphasising its development as an economically viable and profitable option. This title identifies the current problems which demand that a new holistic approach to sustainability be taken on. It details the issues, and provides a range of potential solutions and techniques that can be applied by the architect and urban designer at both the building, and urban scale. It goes on to provide examples of good practice and guidelines for future development - essential information that shows how sustainability has been developed to provide tangible benefits, not only to the environment, but also to users and designers.

*Learn to profit from sustainable design with this practical guide *Discover how to apply the theory to all projects, from urban to building scale *International case studies from Europe, North America, Australia and Hong Kong make the topic universally relevant

**Achieving Sustainable Urban Form** - Elizabeth Burton 2013-07-04

Achieving Sustainable Urban Form represents a major advance in the sustainable development debate. It presents research which defines elements of sustainable urban form - density, size, configuration, detailed design and quality - from macro to micro scale. Case studies from Europe, the USA and Australia are used to illustrate good practice within the fields of planning, urban design and architecture.

**Advancing Urban Sustainability in China and the United States** - National Academies of Sciences, Engineering, and Medicine 2020-06-04

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.

Urban Sustainability and River Restoration
Katia Perini 2017-02-06

13.1.3 Policies and local community -- References -- Chapter 13.2: Los Angeles River, USA - Opportunities and Policies -- 13.2.1 River revitalization plans -- 13.2.2 Costs and benefits -- 13.2.3 Community involvement -- References -- Chapter 13.3: Madrid Río, Spain - Opportunities and Policies -- 13.3.1 Project development -- 13.3.2 Project costs and benefits -- References -- Chapter 13.4: Paillon River, France - Opportunities and Policies -- 13.4.1 Framework of French water policies -- 13.4.2 Local policies and projects -- References -- Chapter 13.5: River Thames, England - Opportunities and Policies -- 13.5.1 Water policy framework and planning strategies -- 13.5.2 Local policies and projects -- 13.5.3 Project costs and benefits -- References -- Chapter 13.6: Emscher River, Germany - Opportunities and Policies -- 13.6.1 Project development -- 13.6.2 Policies and participation -- 13.6.3 Project costs and benefits -- References -- Index -- End User License Agreement

Landscape Architecture and Environmental Sustainability
Joshua Zeunert 2017-01-12

Winner of the Australian Institute of Landscape Architects (AILA) National Excellence Award (Research and Communication) 2017 Winner of the AILA VIC Excellence Award (Research and Communication) 2017 Landscape architecture has a pivotal role in ensuring environmental sustainability through design interventions. This book takes a broad look at strategies and completed projects to provide the reader with a strong understanding of the sustainability challenges being faced by designers today, and potential routes to addressing them. The book covers essential concepts of landscape architecture and environmental sustainability, including: - Ecology, multifunctional landscapes and sensitive intervention - Remediation, cleansing and environmental infrastructure - Social sustainability, design activism and healthy landscapes - Food systems, productive landscapes and transportation - Performance ratings, materials and life cycles Through case studies from around the world and interviews with leading landscape architects and practitioners, this book invites discussion about possible future scenarios, relevant theories and project responses in landscape environmental design. With hundreds of color images throughout the book, and additional study material in the companion website, Joshua Zeunert provides an overview of the multidimensional qualities of landscape sustainability.

Imagining Sustainability
Julie Cidell 2017-03-16

Cities, rather than nations, have become the key sites for enacting environmental policies. This is due to the combination of growing urban populations and increased action on the part of local governments (generally attributed to national governments’ failure to act on climate change). Imagining Sustainability seeks to understand how actors in local government conceptualize sustainability and their role in producing it, and what difference that understanding makes to their physical, political, and social environments now and in the future. International comparisons can uncover new ideas and possibilities. Chicago and Melbourne are prime candidates for such a comparison: they are cities of the same age, they have similar historical trajectories as interior gateways followed by industrial growth and then deindustrialization, and they have demonstrated the same recent desire to be global champions of sustainability. Based on qualitative fieldwork in these two cities, this book uses Karen Barad’s methodology of diffraction to read these case studies through each other. This methodology helps to understand not only what differences exist between these two places, but what effects
those differences have on the urban environment. This book will be of great interest to students and scholars of urban studies, urban planning and environmental policy and governance.

**Urban Sustainability in the US** - Melissa Keeley 2018-09-17 Cities are stepping forward to address the critical sustainability challenges of the 21st century. Meeting the demands of complex issues requires municipalities to evaluate problems and their solutions in more holistic, integrated, and collaborative ways. Drawn from plans and progress reports from more than fifty US cities, this book examines how urban leaders conceptualize sustainability, plan effective strategies, and take action. Chapters examine various topical themes including equity, the green economy, climate change, energy, transportation, water, green space, and waste. Throughout the text, the authors highlight best practices in innovative solutions, recognizing the multiple benefits of sustainability projects, environmental justice, governance, education and communication.

**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 Design for the Built Environment** - Rob Fleming 2019-01-18 Sustainable Design for the Built Environment marks the transition of sustainable design from a specialty service to the mainstream approach for creating a healthy and resilient built environment. This groundbreaking and transformative approach introduces sustainable design in a clear, concise, easy-to-read format. This book takes the reader deep into the foundations of sustainable design, and creates a holistic and integrative approach addressing the social, cultural, ecological, and aesthetic aspects in addition to the typical performance-driven goals. The first section of the book is themed around the origins, principles, and frameworks of sustainable design aimed at inspiring a deeper, broader, and more inclusive view of sustainability. The second section examines strategies such as biophilia and biomimicry, adaptation and resilience, health and well-being. The third section examines the application of sustainability principles from the global, urban, district, building, and human scale, illustrating how a systems thinking approach allows sustainable design to span the context of time, space, and varied perspectives. This textbook is intended to inspire a new vision for the future that unites human activity with natural processes to form a regenerative, coevolutionary model for sustainable design. By allowing the reader an insightful look into the history, motivations, and values of sustainable design, they begin to see sustainable design, not only as a way to deliver green buildings, but as a comprehensive and transformative meta-framework that is so needed in every sector of society. Supported by extensive online resources including videos and PowerPoints for each chapter, this book will be essential reading for students of sustainability and sustainable design.

**Dimensions of the Sustainable City** - Mike Jenks 2009-12-17 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, 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.

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.

Governing for Sustainable Urban Development - Yvonne Rydin
2012-03-29 Achieving urban sustainability is amongst the most pressing issues facing planners and governments. This book is the first to provide a cohesive analysis of sustainable urban development and to examine the processes by which change in how urban areas are built can be achieved. The author looks at how sustainable urban development can be delivered on the ground through a comprehensive analysis of the different modes of governing for new urban development. Governing for Sustainable Urban Development: considers a range of policy tools that influence urban development and that constitute different modes of governing provides an innovative conceptual emphasis on learning within governing processes draws on a wide range of existing research, policy and literature together with case study material focussing on London is above all concerned with demonstrating how sustainable urban development can be delivered in practice. This title be essential reading for students, academics and professionals in planning, urban design and architecture world-wide working to achieve sustainability.

Resilience in Ecology and Urban Design - S.T.A. Pickett
2013-01-13 The contributors to this volume propose strategies of urgent and vital importance that aim to make today’s urban environments more resilient. Resilience, the ability of complex systems to adapt to changing conditions, is a key frontier in ecological research and is especially relevant in creative urban design, as urban areas exemplify complex systems. With something approaching half of the world’s population now residing in coastal urban zones, many of which are vulnerable both to floods originating inland and rising sea levels, making urban areas more robust in the face of environmental threats must be a policy ambition of the highest priority. The complexity of urban areas results from their spatial heterogeneity, their intertwined material and energy fluxes, and the integration of social and natural processes. All of these features can be altered by intentional planning and design. The complex, integrated suite of urban structures and processes together affect the adaptive resilience of urban systems, but also presupposes that planners can intervene in positive ways. As examples accumulate of
linkage between sustainability and building/landscape design, such as the Shanghai Chemical Industrial Park and Toronto’s Lower Don River area, this book unites the ideas, data, and insights of ecologists and related scientists with those of urban designers. It aims to integrate a formerly atomized dialog to help both disciplines promote urban resilience.

**Sustainability in America’s Cities**-Matt Slavin 2013-02-22 "Sustainability" is more than the latest "green" buzzword. It represents a new way of viewing the interactions of human society and the natural world. Sustainability in America’s Cities highlights how America’s largest cities are acting to develop sustainable solutions to conflicts between development and environment. As sustainability rises to the top of public policy agendas in American cities, it is also emerging as a new discipline in colleges and universities. Specifically designed for these educational programs, this is the first book to provide empirically based, multi-disciplinary case studies of sustainability policy, planning, and practice in action. It is also valuable for everyone who designs and implements sustainability initiatives, including policy makers, public sector and non-profit practitioners, and consultants. Sustainability in America’s Cities brings together academic and practicing professionals to offer firsthand insight into innovative strategies that cities have adopted in renewable energy and energy efficiency, climate change, green building, clean-tech and green jobs, transportation and infrastructure, urban forestry and sustainable food production. Case studies examine sustainability initiatives in a wide range of American cities, including San Francisco, Honolulu, Philadelphia, Phoenix, Milwaukee, New York City, Portland, Oregon and Washington D.C. The concluding chapter ties together the empirical evidence and recounts lessons learned for sustainability planning and policy.

**Growing Greener Cities**-Eugenie L. Birch 2011-01-01 Nineteenth-century landscape architect Frederick Law Olmsted described his most famous project, the design of New York’s Central Park, as "a democratic development of highest significance." Over the years, the significance of green in civic life has grown. In twenty-first-century America, not only open space but also other issues of sustainability—such as potable water and carbon footprints—have become crucial elements in the quality of life in the city and surrounding environment. Confronted by a U.S. population that is more than 70 percent urban, growing concern about global warming, rising energy prices, and unabated globalization, today’s decision makers must find ways to bring urban life into balance with the Earth in order to sustain the natural, economic, and political environment of the modern city. In Growing Greener Cities, a collection of essays on urban sustainability and environmental issues edited by Eugenie L. Birch and Susan M. Wachter, scholars and practitioners alike promote activities that recognize and conserve nature’s ability to sustain urban life. These essays demonstrate how partnerships across professional organizations, businesses, advocacy groups, governments, and individuals themselves can bring green solutions to cities from London to Seattle. Beyond park and recreational spaces, initiatives that fall under the green umbrella range from public transit and infrastructure improvement to aquifer protection and urban agriculture. Growing Greener Cities offers an overview of the urban green movement, case studies in effective policy implementation, and tools for measuring and managing success. Thoroughly illustrated with color graphs, maps, and photographs, Growing Greener Cities provides a panoramic view of urban sustainability and environmental issues for green-minded city planners, policy makers, and citizens.

**Handbook of Loss Prevention and Crime Prevention**-Lawrence J. Fennelly 2012 The Handbook of Loss Prevention and Crime Prevention, 5th Edition, is a trusted foundation for security professionals just entering the field and a reference for seasoned professionals. This book provides a comprehensive overview of current approaches to security and crime prevention, tools and technologies to put these approaches into action, and information on a wide range of specific areas within the field of physical security. These include school and campus security, cargo security, access control, the increasingly violent healthcare security environment, and prevention or mitigation of terrorism and natural disasters. * Covers every important topic in the field, including the latest on wireless security applications, data analysis and visualization, situational crime prevention, and global security standards and compliance issues * Required reading for the certification DHS selected for its infrastructure security
Seattle and the Roots of Urban Sustainability: Jeffrey Craig Sanders 2010-08-01

Seattle, often called the “Emerald City,” did not achieve its green, clean, and sustainable environment easily. This thriving ecotopia is the byproduct of continuing efforts by residents, businesses, and civic leaders alike. In Seattle and the Roots of Urban Sustainability, Jeffrey Craig Sanders examines the rise of environmental activism in Seattle amidst the “urban crisis” of the 1960s and its aftermath. Like much activism during this period, the environmental movement began at the grassroots level—in local neighborhoods over local issues. Sanders links the rise of local environmentalism to larger movements for economic, racial, and gender equality and to a counterculture that changed the social and political landscape. He examines emblematic battles that erupted over the planned demolition of Pike Place Market, a local landmark, and environmental organizing in the Central District during the War on Poverty. Sanders also relates the story of Fort Lawton, a decommissioned army base, where Audubon Society members and Native American activists feuded over future land use. The rise and popularity of environmental consciousness among Seattle’s residents came to influence everything from industry to politics, planning, and global environmental movements. Yet, as Sanders reveals, it was in the small, local struggles that urban environmental activism began.

Planning Sustainable Cities and Regions - Karen Chapple 2014-09-15

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