

The Guide To Greening Cities By Johnston Sadhu Aufochs Published By Island Press 2013 Paperback

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Growing Compact

A Complete Guide to Building and Maintaining Green Roofs Written by an industry expert in green roof design and installation, this GreenSource book presents all of the information you need to skillfully design, construct, and maintain green roofs. You will find a wealth of practical details gathered through real-world implementations and independent research. Green Roof Construction and Maintenance explains how to design a green roof, plan for irrigation and drainage, select and place soil and plants, and maintain the entire setup. The book also discusses return on investment, LEED design specifications, and the myriad short- and long-term environmental benefits of green roofs. Filled with step-by-step illustrations and full-color photographs, this is a valuable, hands-on guide to a rapidly emerging trend in the sustainability movement. Green Roof Construction and Maintenance includes: Key questions to ask at each stage of the green building process Tested tips and techniques for successful structural design Construction methods for new and existing buildings Information on insulation, drainage, detailing, irrigation, and plant selection Details on optimal soil formulation Illustrations featuring various stages of construction Best practices for green roof maintenance A survey of environmental benefits, including evapo-transpiration, storm-water management, habitat restoration, and improvement of air quality Tips on the LEED design and certification process Considerations for assessing return on investment Color photographs of successfully installed green roofs Useful checklists, tables, and charts

Phyto

This book provides an overview of the large and interdisciplinary literature on the substance and process of urban climate change planning and design, using the most important articles from the last 15 years to engage readers in understanding

problems and finding solutions to this increasingly critical issue. The Reader's particular focus is how the impacts of climate change can be addressed in urban and suburban environments—what actions can be taken, as well as the need for and the process of climate planning. Both reducing greenhouse gas emissions as well as adapting to future climate are explored. Many of the emerging best practices in this field involve improving the green infrastructure of the city and region—providing better on-site stormwater management, more urban greening to address excess heat, zoning for regional patterns of open space and public transportation corridors, and similar actions. These actions may also improve current public health and livability in cities, bringing benefits now and into the future. This Reader is innovative in bringing climate adaptation and green infrastructure together, encouraging a more hopeful perspective on the great challenge of climate change by exploring both the problems of climate change and local solutions.

Blueprint for Greening Affordable Housing

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

Guerrilla Gardening

The book aims to capture, describe and convey the current significance, the values and potentials of urban biodiversity and ecosystem services to scientists and professionals in the context of sustainable urban development and ongoing urbanization processes. Current developments, different approaches and future challenges in the competition of green spaces and urban land consumption in China and Germany are elaborated, discussed and illustrated within case studies and good practice examples. The strategic goal is a long-term appreciation of the potentials and increased consideration of urban green spaces in city planning and development. This book provides tangible recommendations for urban planners, politicians and stakeholders in the fields of green infrastructure at the interface of environment and urban landscape.

Green Cities

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.

Greening Cities

Superstorm Sandy sent a strong message that a new generation of urban development and infrastructure is desperately needed, and it must be designed with resilience in mind. As cities continue to face climate change impacts while growing in population, they find themselves at the center of resilience and green city solutions, yet political and budgetary obstacles threaten even the best-planned initiatives. In *The Guide to Greening Cities*, seasoned green city leaders Sadhu Johnston, Steven Nicholas, and Julia Parzen use success stories from across North America to show how to turn a green city agenda into reality. *The Guide to Greening Cities* is the first book written from the perspective of municipal leaders with successful, on-the-ground experience working to advance green city goals. Through personal reflections and interviews with leading municipal staff in cities from San Antonio to Minneapolis, the authors share lessons for cities to lead by example in their operations, create programs, implement high-priority initiatives, develop partnerships, measure progress, secure funding, and engage the community. Case studies and chapters highlight strategies for overcoming common challenges such as changes of leadership and fiscal austerity. The book is augmented by a companion website, launching with the publication of the book, which offers video interviews of municipal leaders, additional case studies, and other resources. Rich in tools, insights, and tricks of the trade, *The Guide to Greening Cities* helps professionals, policymakers, community leaders, and students understand which approaches have worked and why and demonstrates multidisciplinary solutions for creating healthy, just, and green communities. Visit the companion website to the book-<http://guidetogreeningcities.org/>

Green Planning for Cities and Communities

Winner of the Western History Association's 2009 Hal K. Rothman Award Finalist in the Western Writers of America Spur Award for the Western Nonfiction Contemporary category (2008). The San Francisco Bay Area is one of the world's most beautiful cities. Despite a population of 7 million people, it is more greensward than asphalt jungle, more open space than hardscape. A vast quilt of countryside is tucked into the folds of the metropolis, stitched from fields, farms and woodlands, mines, creeks, and wetlands. In *The Country in the City*, Richard Walker tells the story of how the jigsaw geography of this greenbelt has been set into place. The Bay Area's civic landscape has been fought over acre by acre, an arduous process requiring popular mobilization, political will, and hard work. Its most cherished environments--Mount Tamalpais, Napa Valley, San Francisco Bay, Point Reyes, Mount Diablo, the Pacific coast--have engendered some of the fiercest environmental battles in the country and have made the region a leader in green ideas and organizations. This book tells how the Bay Area got its green grove: from the stirrings of conservation in the time of John Muir to origins of the recreational parks and coastal preserves in the early twentieth century, from the fight to stop bay fill and control suburban growth after the Second World War to securing conservation easements and stopping toxic pollution in our times. Here, modern environmentalism first became a mass political movement in the 1960s, with the sudden blooming of the Sierra Club and Save the Bay, and it remains a global

center of environmentalism to this day. Green values have been a pillar of Bay Area life and politics for more than a century. It is an environmentalism grounded in local places and personal concerns, close to the heart of the city. Yet this vision of what a city should be has always been informed by liberal, even utopian, ideas of nature, planning, government, and democracy. In the end, green is one of the primary colors in the flag of the Left Coast, where green enthusiasms, like open space, are built into the fabric of urban life. Written in a lively and accessible style, *The Country in the City* will be of interest to general readers and environmental activists. At the same time, it speaks to fundamental debates in environmental history, urban planning, and geography.

Cities as Sustainable Ecosystems

Creation and access to green spaces promotes individual human health, especially in therapeutic contexts among those suffering traumatic events. But what of the role of access to green space and the act of creating and caring for such places in promoting social health and well-being? *Greening in the Red Zone* asserts that creation and access to green spaces confers resilience and recovery in systems disrupted by violent conflict or disaster. This edited volume provides evidence for this assertion through cases and examples. The contributors to this volume use a variety of research and policy frameworks to explore how creation and access to green spaces in extreme situations might contribute to resistance, recovery, and resilience of social-ecological systems.

Biophilic Cities

"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.

Keepers of the Trees

What if, even in the heart of a densely developed city, people could have

meaningful encounters with nature? While parks, street trees, and green roofs are increasingly appreciated for their technical services like stormwater reduction, from a biophilic viewpoint, they also facilitate experiences that contribute to better physical and mental health: natural elements in play areas can lessen children's symptoms of ADHD, and adults who exercise in natural spaces can experience greater reductions in anxiety and blood pressure. The Handbook of Biophilic City Planning & Design offers practical advice and inspiration for ensuring that nature in the city is more than infrastructure—that it also promotes well-being and creates an emotional connection to the earth among urban residents. Divided into six parts, the Handbook begins by introducing key ideas, literature, and theory about biophilic urbanism. Chapters highlight urban biophilic innovations in more than a dozen global cities. The final part concludes with lessons on how to advance an agenda for urban biophilia and an extensive list of resources. As the comprehensive reference on the emerging field of biophilic urbanism, the Handbook is essential reading for students and practitioners looking to place nature at the core of their planning and design ideas and encourage what preeminent biologist E.O. Wilson described as "the innate emotional connection of humans to all living things."

Green Cities of Europe

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.

Marketing Green Building Services

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.

Just Green Enough

Marketing Green Building Services: Strategies for Success presents all the information key decision-makers need to respond to the fast-growing market for green buildings, design and construction services and products. Completely updated, revised and expanded from the author's previous works, this book is the one resource you need to succeed in the green building marketplace. With a sound grounding in contemporary marketing theory and practice, the book assembles hard-to-find information to assist executives and partners in design and construction firms in crafting competitive strategies that build on their firm's strengths, while shoring up their weaknesses. Since most design and construction firms specialize in particular market sectors, the book systematically examines the important market segments for green buildings. It also presents key business case justifications for green buildings that help architects, engineers and builders to understand client motivations and respond to them with appropriate marketing tactics and communications strategies. The book examines how the green building market is adopting certain new products and design approaches, information that will help manufacturers and product sales teams to craft appropriate marketing strategies. The book also helps owners and developers understand the green building business case and to find out what other leading-edge firms and projects have learned - how to market and sell green buildings and green developments in a highly competitive marketplace.

Sustainable Communities Design Handbook

This book offers an overview of recent scientific and professional literature on urban greening and urban ecology, focusing on diverse disciplines such as landscape architecture, geography, urban ecology, urban climatology, biodiversity conservation, urban governance, architecture and urban hydrology. It includes contributions in which academics, public policy experts and practitioners share their considerable knowledge on the multi-faceted aspects of greening cities. The greening of cities has witnessed a global resurgence over the past two decades and has made a significant contribution to urban liveability and sustainability, as well as increasing resilience. As urban greening efforts continue to expand, it is useful to promote recent advances in our understanding of various aspects of planning, design and management of urban greenery, but at the same time, it is also important to realize that there are important gaps in our knowledge and that further research is needed. The book is organized in three main parts: concepts, functions and forms of urban greening. The first part examines the historical roots of greening cities and how the burgeoning field of urban ecology can contribute useful principles and strategies to guide the planning, design and management of urban greening. The second part shifts the focus to the diverse range of services -

the functions – provided by urban greening, such as those related to urban climate, urban biodiversity, human health, and community building. The final part explores conventional, often neglected, but important forms of urban greenery such as urban woodlands and urban farms, as well as relatively recent forms of urban greenery like those integrated with buildings and waterways. It offers a ready reference resource for researchers, practitioners and policy-makers to grasp the critical issues and trigger further studies and applications in the quest for high-performance green cities.

Urban Ecology

Modern city dwellers are largely detached from the environmental effects of their daily lives. The sources of the water they drink, the food they eat, and the energy they consume are all but invisible, often coming from other continents, and their waste ends up in places beyond their city boundaries. *Cities as Sustainable Ecosystems* shows how cities and their residents can begin to reintegrate into their bioregional environment, and how cities themselves can be planned with nature's organizing principles in mind. Taking cues from living systems for sustainability strategies, Newman and Jennings reassess urban design by exploring flows of energy, materials, and information, along with the interactions between human and non-human parts of the system. Drawing on examples from all corners of the world, the authors explore natural patterns and processes that cities can emulate in order to move toward sustainability. Some cities have adopted simple strategies such as harvesting rainwater, greening roofs, and producing renewable energy. Others have created biodiversity parks for endangered species, community gardens that support a connection to their foodshed, and pedestrian-friendly spaces that encourage walking and cycling. A powerful model for urban redevelopment, *Cities as Sustainable Ecosystems* describes aspects of urban ecosystems from the visioning process to achieving economic security to fostering a sense of place.

Green Gentrification

This second edition covers recent developments around the world with contributors from 33 different countries. It widens the handbook's scope by including ecological design; consideration of cultural dimensions of the use and conservation of urban nature; the roles of government and civil society; and the continuing issues of equity and fairness in access to urban greenspaces. New features include an emphasis on the biophilic design of homes and workplaces, demonstrating the value of nature, in order to counter the still prevalent attitude among many developers that nature is a constraint rather than a value. The volume explores great practical achievements that have occurred since the first edition, with many governments increasingly recognising and legislating on urban nature and green infrastructure matters, since cities play a major role in adapting to change, particularly to climate crisis. New topics such as the ecological role of light at night and human microbiota in the urban ecosystem are introduced. Additional attention is given to food production in cities, particularly the multiple roles of urban agriculture and household gardens in different contexts from wealthy communities to the poorest informal settlements in deprived communities. The emphasis is on demonstrating what can be achieved, and what is already being done. The book

will help scholars and graduate students by providing an invaluable and up-to-date guide to current urban ecological thinking across the range of disciplines, such as geography, ecology, environmental science/studies, planning, urban studies, that converge in the study of towns and cities and urban design and living. It will also assist practitioners and civil society members in discovering the ways different specialists and thinkers approach urban nature.

Green Roof Construction and Maintenance (GreenSource Books)

This volume provides an overview of key principles, approaches, strategies, and tools that businesses have used to reduce environmental impacts and contribute to sustainability. Entries reflect the expertise of scholars and practitioners from varied fields and provide references to other entries as well as citations for further reading. The editors have also included photos, hyperlinks, cross references, and a resource guide.

The Permaculture City

What is a green city? What does it mean to say that San Francisco or Vancouver is more "green" than Houston or Beijing? When does urban growth lower environmental quality, and when does it yield environmental gains? How can cities deal with the environmental challenges posed by growth? These are the questions Matthew Kahn takes on in this smart and engaging book. Written in a lively, accessible style, *Green Cities* takes the reader on a tour of the extensive economic literature on the environmental consequences of urban growth. Kahn starts with an exploration of the Environmental Kuznets Curve (EKC)—the hypothesis that the relationship between environmental quality and per capita income follows a bell-shaped curve. He then analyzes several critiques of the EKC and discusses the implications of growth in urban population and surface area, as well as income. The concluding chapter addresses the role of cities in promoting climate change and asks how cities in turn are likely to be affected by this trend. As Kahn points out, although economics is known as the "dismal science," economists are often quite optimistic about the relationship between urban development and the environment. In contrast, many ecologists and environmentalists remain wary of the environmental consequences of free-market growth. Rather than try to settle this dispute, this book conveys the excitement of an ongoing debate. *Green Cities* does not provide easy answers complex dilemmas. It does something more important—it provides the tools readers need to analyze these issues on their own.

Sustainability in America's Cities

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.

Blue and Green Cities

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.

Pathways to Urban Sustainability

Tim Beatley has long been a leader in advocating for the "greening" of cities. But too often, he notes, urban greening efforts focus on everything except nature, emphasizing such elements as public transit, renewable energy production, and energy efficient building systems. While these are important aspects of reimagining urban living, they are not enough, says Beatley. We must remember that human beings have an innate need to connect with the natural world (the biophilia hypothesis). And any vision of a sustainable urban future must place its focus squarely on nature, on the presence, conservation, and celebration of the actual green features and natural life forms. A biophilic city is more than simply a biodiverse city, says Beatley. It is a place that learns from nature and emulates natural systems, incorporates natural forms and images into its buildings and cityscapes, and designs and plans in conjunction with nature. A biophilic city cherishes the natural features that already exist but also works to restore and repair what has been lost or degraded. In Biophilic Cities Beatley not only outlines the essential elements of a biophilic city, but provides examples and stories about cities that have successfully integrated biophilic elements--from the building to the regional level--around the world. From urban ecological networks and connected systems of urban greenspace, to green rooftops and green walls and sidewalk

gardens, Beatley reviews the emerging practice of biophilic urban design and planning, and tells many compelling stories of individuals and groups working hard to transform cities from grey and lifeless to green and biodiverse.

The Routledge Handbook of Urban Ecology

While global urban development increasingly takes on the mantle of sustainability and "green urbanism," both the ecological and equity impacts of these developments are often overlooked. One result is what has been called environmental gentrification, a process in which environmental improvements lead to increased property values and the displacement of long-term residents. The specter of environmental gentrification is now at the forefront of urban debates about how to accomplish environmental improvements without massive displacement. In this context, the editors of this volume identified a strategy called "just green enough" based on field work in Greenpoint, Brooklyn, that uncouples environmental cleanup from high-end residential and commercial development. A "just green enough" strategy focuses explicitly on social justice and environmental goals as defined by local communities, those people who have been most negatively affected by environmental disamenities, with the goal of keeping them in place to enjoy any environmental improvements. It is not about short-changing communities, but about challenging the veneer of green that accompanies many projects with questionable ecological and social justice impacts, and looking for alternative, sometimes surprising, forms of greening such as creating green spaces and ecological regeneration within protected industrial zones. Just Green Enough is a theoretically rigorous, practical, global, and accessible volume exploring, through varied case studies, the complexities of environmental improvement in an era of gentrification as global urban policy. It is ideal for use as a textbook at both undergraduate and graduate levels in urban planning, urban studies, urban geography, and sustainability programs.

How Green Is the City?

The objective of Sustainable Communities Design Handbook is to ensure a better quality of life for everyone, both now and for generations to come. This means creating a better and safer environment internationally through the sustainable use of natural resources, encouraging sustainable development which supports a strong economy, and ensuring a high quality environment that can be enjoyed by all. Sustainable Development Partnerships brings together in one reference today's most cutting edge technologies and methods for creating sustainable communities. With this book, Environmental Engineers, Civil Engineers, Architects, Mechanical Engineers, and Energy Engineers find a common approach to building environmental friendly communities which are energy efficient. The five part treatment starts with a clear and rigorous exposition of sustainable development in practice, followed by self-contained chapters concerning applications. Methods for the sustainable use of natural resources in built communities Clearly explains the most cutting edge sustainable technologies Provides a common approach to building sustainable communities Coverage of sustainable practices from architecture to construction

Oil and Honey

Permaculture is more than just the latest buzzword; it offers positive solutions for many of the environmental and social challenges confronting us. And nowhere are those remedies more needed and desired than in our cities. The Permaculture City provides a new way of thinking about urban living, with practical examples for creating abundant food, energy security, close-knit communities, local and meaningful livelihoods, and sustainable policies in our cities and towns. The same nature-based approach that works so beautifully for growing food—connecting the pieces of the landscape together in harmonious ways—applies perfectly to many of our other needs. Toby Hemenway, one of the leading practitioners and teachers of permaculture design, illuminates a new way forward through examples of edge-pushing innovations, along with a deeply holistic conceptual framework for our cities, towns, and suburbs. The Permaculture City begins in the garden but takes what we have learned there and applies it to a much broader range of human experience; we're not just gardening plants but people, neighborhoods, and even cultures. Hemenway lays out how permaculture design can help town dwellers solve the challenges of meeting our needs for food, water, shelter, energy, community, and livelihood in sustainable, resilient ways. Readers will find new information on designing the urban home garden and strategies for gardening in community, rethinking our water and energy systems, learning the difference between a "job" and a "livelihood," and the importance of placemaking and an empowered community. This important book documents the rise of a new sophistication, depth, and diversity in the approaches and thinking of permaculture designers and practitioners. Understanding nature can do more than improve how we grow, make, or consume things; it can also teach us how to cooperate, make decisions, and arrive at good solutions.

Greening in the Red Zone

Blueprint for Green Affordable Housing is a guide for housing developers, advocates, public agency staff, and the financial community that offers specific guidance on incorporating green building strategies into the design, construction, and operation of affordable housing developments. A completely revised and expanded second edition of the groundbreaking 1999 publication, this new book focuses on topics of specific relevance to affordable housing including: how green building adds value to affordable housing the integrated design process best practices in green design for affordable housing green operations and maintenance innovative funding and finance emerging programs, partnerships, and policies Edited by national green affordable housing expert Walker Wells and featuring a foreword by Matt Petersen, president and chief executive officer of Global Green USA, the book presents 12 case studies of model developments and projects, including rental, home ownership, special needs, senior, self-help, and co-housing from around the United States. Each case study describes the unique green features of the development, discusses how they were successfully incorporated, considers the project's financing and savings associated with the green measures, and outlines lessons learned. Blueprint for Green Affordable Housing is the first book of its kind to present information regarding green building that is specifically tailored to the affordable housing development community.

Climate Action Planning

This book addresses key issues across the field of sustainable urban planning, and provides a unique reference tool for planners, engineers, architects, public administrators, and other experts. The evolution of cities and communities is giving rise to pressing energy and environmental problems that demand concrete solutions. In this context, urban planning is inevitably a complex activity that requires a sound analytical interpretation of ongoing developments, multidisciplinary analysis of the available tools and technologies, appropriate political management, and the ability to monitor progress objectively in order to verify the effectiveness of the policies implemented. This book is exceptional in both the breadth of its coverage and its focus on the interactions between different elements. Individual sections focus on strategies and tools for green planning, energy efficiency and sustainability in city planning, sustainable mobility, rating systems, and the smart city approach to improving urban-scale sustainability. The authors draw on their extensive practical experience to provide operational content supplementing the theoretical and methodological elements covered in the text, and each section features informative case studies.

Planning for Climate Change

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.

Handbook of Biophilic City Planning & Design

In the absence of federal leadership, states and localities are stepping forward to address critical problems like climate change, urban sprawl, and polluted water and air. Making a city fundamentally sustainable is a daunting task, but fortunately, there are dynamic, innovative models outside U.S. borders. *Green Cities of Europe* draws on the world's best examples of sustainability to show how other cities can become greener and more livable. Timothy Beatley has brought together leading experts from Paris, Freiburg, Copenhagen, Helsinki, Heidelberg, Venice, Vitoria-Gasteiz, and London to illustrate groundbreaking practices in sustainable urban planning and design. These cities are developing strong urban cores, building pedestrian and bicycle infrastructure, and improving public transit. They are incorporating ecological design and planning concepts, from solar energy to natural drainage and community gardens. And they are changing the way government works, instituting municipal "green audits" and reforming economic incentives to encourage sustainability. Whatever their specific tactics, these communities prove that a holistic approach is needed to solve environmental problems and make cities sustainable. Beatley and these esteemed contributors offer vital lessons to the domestic planning community about not only what European cities are doing to achieve that vision, but precisely how they are doing it. The result is an indispensable guide to greening American cities. Contributors include: Lucie Laurian (Paris) Dale Medearis and Wulf Daseking (Freiburg) Michaela Brüel (Copenhagen) Maria Jaakkola (Helsinki) Marta Moretti (Venice) Luis Andrés

Orive and Rebeca Dios Lema (Vitoria-Gasteiz) Camilla Ween (London)

Green Business

This book offers new research on urban policy innovations that promote the application of blue-green infrastructure in managing water resources sustainably. The author argues that urban water managers have traditionally relied on grey infrastructural solutions to mitigate risks with numerous economic and environmental consequences. Brears explores the role urban water managers have in implementing blue-green infrastructure to reduce ecological damage and mitigate risk. The case studies in this book illustrate how cities, of differing climates, lifestyles and income-levels, have implemented policy innovations that promote the application of blue-green infrastructure in managing water, wastewater and stormwater sustainably to reduce environmental degradation and enhance resilience to climate change. This new research on urban policy innovations that promote the application of blue-green infrastructure in managing water resources sustainably will be of interest to those working on water conservation and policy.

The Guide to Greening Cities

Climate change continues to impact our health and safety, the economy, and natural systems. With climate-related protections and programs under attack at the federal level, it is critical for cities to address climate impacts locally. Every day there are new examples of cities approaching the challenge of climate change in creative and innovative ways—from rethinking transportation, to greening city buildings, to protecting against sea-level rise. Climate Action Planning is designed to help planners, municipal staff and officials, citizens and others working at local levels to develop and implement plans to mitigate a community's greenhouse gas emissions and increase the resilience of communities against climate change impacts. This fully revised and expanded edition goes well beyond climate action plans to examine the mix of policy and planning instruments available to every community. Boswell, Greve, and Seale also look at process and communication: How does a community bring diverse voices to the table? What do recent examples and research tell us about successful communication strategies? Climate Action Planning brings in new examples of implemented projects to highlight what has worked and the challenges that remain. A completely new chapter on vulnerability assessment will help each community to identify their greatest risks and opportunities. Sections on land use and transportation have been expanded to reflect their growing contribution to greenhouse gas emissions. The guidance in the book is put in context of international, national, and state mandates and goals. Climate Action Planning is the most comprehensive book on the state of the art, science, and practice of local climate action planning. It should be a first stop for any local government interested in addressing climate change.

Green Cities

A guide to greening cities -- with or without permission.

Emerald Cities

Presents fourteen narratives of people whose lives and vocations have been inspired by forests and trees, illuminating the beauty and value of this important resource and offering suggestions for getting involved in conservation.

Urban Sustainability and River Restoration

Green Gentrification looks at the social consequences of urban "greening" from an environmental justice and sustainable development perspective. Through a comparative examination of five cases of urban greening in Brooklyn, New York, it demonstrates that such initiatives, while positive for the environment, tend to increase inequality and thus undermine the social pillar of sustainable development. Although greening is ostensibly intended to improve environmental conditions in neighborhoods, it generates green gentrification that pushes out the working-class, and people of color, and attracts white, wealthier in-migrants. Simply put, urban greening "richens and whitens," remaking the city for the sustainability class. Without equity-oriented public policy intervention, urban greening is negatively redistributive in global cities. This book argues that environmental injustice outcomes are not inevitable. Early public policy interventions aimed at neighborhood stabilization can create more just sustainability outcomes. It highlights the negative social consequences of green growth coalition efforts to green the global city, and suggests policy choices to address them. The book applies the lessons learned from green gentrification in Brooklyn to urban greening initiatives globally. It offers comparison with other greening global cities. This is a timely and original book for all those studying environmental justice, urban planning, environmental sociology, and sustainable development as well as urban environmental activists, city planners and policy makers interested in issues of urban greening and gentrification.

Rethinking Sustainable Cities

This title includes a number of Open Access chapters. With increasing global urbanization, the environments and ecologies of cities are often perceived to suffer. While pollution and destruction of green space and species may occur, cities also remain part of natural systems. Cities provide natural processes necessary for survival for humans and other living organisms in urban areas. Urban ecology elucidates some of these processes and sheds light on their importance to healthy, fulfilling urban livelihoods. *Urban Ecology: Strategies for Green Infrastructure and Land Use* provides background on issues relating to urban ecology and urban natural processes. The first section covers the types, values, and recognition of ecosystem services provided by natural processes in urban areas. The second section details the importance and potential of green spaces in urban areas. The third section focuses on biodiversity traits of cities, and the ways in which urbanization affects biodiversity indicators. Finally, the fourth section covers some of the tools and approaches available for urban planners and designers concerned with improving or maintaining urban environments and the services they provide. This easily accessible reference volume offers a comprehensive guide to this rapidly growing field. Case studies and up-to-date research provide urban planners

with new options for creating cities that will meet the demands of the twenty-first century. Also appropriate for graduate students who are preparing for careers related to urban planning, this compendium captures and integrates the current work being done in this vitally important field.

Greening Cities

Sustainability and Cities examines the urban aspect of sustainability issues, arguing that cities are a necessary focus for that global agenda. The authors make the case that the essential character of a city's land use results from how it manages its transportation, and that only by reducing our automobile dependence will we be able to successfully accommodate all elements of the sustainability agenda. The book begins with chapters that set forth the notion of sustainability and how it applies to cities and automobile dependence. The authors consider the changing urban economy in the information age, and describe the extent of automobile dependence worldwide. They provide an updated survey of global cities that examines a range of sustainability factors and indicators, and, using a series of case studies, demonstrate how cities around the world are overcoming the problem of automobile dependence. They also examine the connections among transportation and other issues—including water use and cycling, waste management, and greening the urban landscape—and explain how all elements of sustainability can be managed simultaneously. The authors end with a consideration of how professional planners can promote the sustainability agenda, and the ethical base needed to ensure that this critical set of issues is taken seriously in the world's cities. Sustainability and Cities will serve as a source of both learning and inspiration for those seeking to create more sustainable cities, and is an important book for practitioners, researchers, and students in the fields of planning, geography, and public policy.

Towards Green Cities

Bestselling author and environmental activist Bill McKibben recounts the personal and global story of the fight to build and preserve a sustainable planet. Bill McKibben is not a person you'd expect to find hand-cuffed in the city jail in Washington, D.C. But that's where he spent three days in the summer of 2011, after leading the largest civil disobedience in thirty years to protest the Keystone XL pipeline. A few months later the protesters would see their efforts rewarded when President Obama agreed to put the project on hold. And yet McKibben realized that this small and temporary victory was at best a stepping-stone. With the Arctic melting, the Midwest in drought, and Hurricane Sandy scouring the Atlantic, the need for much deeper solutions was obvious. Some of those would come at the local level, and McKibben recounts a year he spends in the company of a beekeeper raising his hives as part of the growing trend toward local food. Other solutions would come from a much larger fight against the fossil-fuel industry as a whole. Oil and Honey is McKibben's account of these two necessary and mutually reinforcing sides of the global climate fight - from the absolute centre of the maelstrom and from the growing hive of small-scale local answers to the climate crisis. With characteristic empathy and passion, he reveals the imperative to work on both levels, telling the story of raising one year's honey crop and building a social movement that's still cresting.

Sustainable Urbanism

Via 150 signed articles, this volume, *Green Cities*, in the SAGE Reference Series on Green Society, provides an overview of the key concepts that urban planners, policy makers, and architects, engineers, and developers use to understand the sustainability dimensions of the urban environment. It identifies cities that have taken steps to become greener and discusses the strategies they have used. It reviews broad concepts associated with green cities. It discusses technologies, infrastructures, and programs that contribute to the greening of cities. Cities face enormous environmental challenges, and the entries in this volume, from case studies of greener cities to discussions of green urban design, infrastructure, and processes, can help us transform our cities into healthier, sustainable communities in which a growing urban population can thrive. Along with the articles, pedagogical elements of this electronic product include a Reader's Guide, Chronology, Resource Guide, Glossary, Appendix, and thorough Index.

Greening Affordable Housing

Here is a refreshing look at how American cities are leading the way toward greener, cleaner, and more sustainable forms of economic development. In *Emerald Cities*, Joan Fitzgerald shows how in the absence of a comprehensive national policy, cities like Chicago, New York, Portland, San Francisco, and Seattle have taken the lead in addressing the interrelated environmental problems of global warming, pollution, energy dependence, and social justice. Cities are major sources of pollution but because of their population density, reliance on public transportation, and other factors, Fitzgerald argues that they are uniquely suited to promote and benefit from green economic development. For cities facing worsening budget constraints, investing in high-paying green jobs in renewable energy technology, construction, manufacturing, recycling, and other fields will solve two problems at once, sparking economic growth while at the same time dramatically improving quality of life. Fitzgerald also examines how investing in green research and technology may help to revitalize older industrial cities and offers examples of cities that don't make the top-ten green lists such as Toledo and Cleveland, Ohio and Syracuse, New York. And for cities wishing to emulate those already engaged in developing greener economic practices, Fitzgerald shows which strategies will be most effective according to each city's size, economic history, geography, and other unique circumstances. But cities cannot act alone, and Fitzgerald analyzes the role of state and national government policy in helping cities create the next wave of clean technology growth. Lucid, forward-looking, and guided by a level-headed optimism that clearly distinguishes between genuine progress and exaggerated claims, *Emerald Cities* points the way toward a sustainable future for the American city.

Sustainability and Cities

Winner of the 2017 CBHL Literature Award of Excellence in Landscape Design and Architecture *Phyto* presents the concepts of phytoremediation and phytotechnology in one comprehensive guide, illustrating when plants can be considered for the uptake, removal or mitigation of on-site pollutants. Current

scientific case studies are covered, highlighting the advantages and limitations of plant-based cleanup. Typical contaminant groups found in the built environment are explained, and plant lists for mitigation of specific contaminants are included where applicable. This is the first book to address the benefits of phytotechnologies from a design point of view, taking complex scientific terms and translating the research into an easy-to-understand reference book for those involved in creating planting solutions. Typically, phytotechnology planting techniques are currently employed post-site contamination to help clean up already contaminated soil by taking advantage of the positive effects that plants can have upon harmful toxins and chemicals. This book presents a new concept to create projective planting designs with preventative phytotechnology abilities, 'phytobuffering' where future pollution may be expected for particular site programs. Filled with tables, photographs and detailed drawings, Kennen and Kirkwood's text guides the reader through the process of selecting plants for their aesthetic and environmental qualities, combined with their contaminant-removal benefits.

The Country in the City

This book offers an overview of recent scientific and professional literature on urban greening and urban ecology, focusing on diverse disciplines such as landscape architecture, geography, urban ecology, urban climatology, biodiversity conservation, urban governance, architecture and urban hydrology. It includes contributions in which academics, public policy experts and practitioners share their considerable knowledge on the multi-faceted aspects of greening cities. The greening of cities has witnessed a global resurgence over the past two decades and has made a significant contribution to urban liveability and sustainability, as well as increasing resilience. As urban greening efforts continue to expand, it is useful to promote recent advances in our understanding of various aspects of planning, design and management of urban greenery, but at the same time, it is also important to realize that there are important gaps in our knowledge and that further research is needed. The book is organized in three main parts: concepts, functions and forms of urban greening. The first part examines the historical roots of greening cities and how the burgeoning field of urban ecology can contribute useful principles and strategies to guide the planning, design and management of urban greening. The second part shifts the focus to the diverse range of services – the functions – provided by urban greening, such as those related to urban climate, urban biodiversity, human health, and community building. The final part explores conventional, often neglected, but important forms of urban greenery such as urban woodlands and urban farms, as well as relatively recent forms of urban greenery like those integrated with buildings and waterways. It offers a ready reference resource for researchers, practitioners and policy-makers to grasp the critical issues and trigger further studies and applications in the quest for high-performance green cities.

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