

# Routledge Handbook Of Urban Forestry

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## **CRISTOPHER HAROLD**

The Routledge Handbook of Planning Research Methods Routledge

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 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.

**The Routledge**

**Handbook of Literature and Space** Taylor & Francis

The Routledge Handbook of Contemporary Japan presents a synthesized, interdisciplinary study of contemporary Japan based on up-to-date theoretical models designed to provide readers with a comprehensive and full understanding of the dynamics of contemporary Japan. In order to achieve this, the Handbook is organized into two parts. Part I, 'Foundations', clarifies the state of contemporary Japan topic by topic by referring to the latest theoretical developments in the relevant disciplinary fields of politics, international relations, economy, society, culture and the personal. Part II, 'Issues', then offers a series of concrete analyses building upon the theoretical discussions introduced in Part I to help undergraduate and postgraduate students learn how to conduct independent analysis. Locating Japan in a comparative and interdisciplinary perspective, this Handbook is an essential resource for students and scholars interested in

Japanese studies, Asian studies and global studies.

**Urban Forests** Taylor & Francis

The idea that nature provides services to people is one of the most powerful concepts to have emerged over the last two decades. It is shaping our understanding of the role that biodiverse ecosystems play in the environment and their benefits for humankind. As a result, there is a growing interest in operational and methodological issues surrounding ecosystem services amongst environmental managers, and many institutions are now developing teaching programmes to equip the next generation with the skills needed to apply the concepts more effectively. This handbook provides a comprehensive reference text on ecosystem services, integrating natural and social science (including economics). Collectively the chapters, written by the world's leading authorities, demonstrate the importance of biodiversity for people, policy and practice. They also show how the value of ecosystems to society can be expressed in monetary and non-monetary terms,

so that the environment can be better taken into account in decision making. The significance of the ecosystem service paradigm is that it helps us redefine and better communicate the relationships between people and nature. It is shown how these are essential to resolving challenges such as sustainable development and poverty reduction, and the creation of a green economy in developing and developed world contexts.

**Routledge Handbook of Agricultural Biodiversity**

Routledge Fully updated and greatly enhanced, the Third Edition of Urban Forestry addresses current issues in planning, establishing, and managing trees, forests, and other elements of nature in urban and community ecosystems. The authors discuss why we have trees in cities and how we use them, clarify the appraisal and inventory of urban vegetation, and extensively delve into the planning and management of public as well as private vegetation. As urban forestry continues to evolve as a profession, foresters and arborists can expect many challenges as well as

opportunities. The continuing development of cities has become linked to a much greater emphasis on urban vegetation, the growing demand for recreation amenities within the urban environment, and the careful and successful management of vegetation in an urban ecosystem. New ways to incorporate the highly versatile urban forest resource into the urban fabric will undoubtedly benefit the lives of its residents.

*Routledge Handbook of U.S. Counterterrorism and Irregular Warfare Operations* Routledge  
The "spatial turn" in literary studies is transforming the way we think of the field. The *Routledge Handbook of Literature and Space* maps the key areas of spatiality within literary studies, offering a comprehensive overview but also pointing towards new and exciting directions of study. The interdisciplinary and global approach provides a thorough introduction and includes thirty-two essays on topics such as: Spatial theory and practice Critical methodologies Work sites Cities and the geography of urban experience Maps,

territories, readings. The contributors to this volume demonstrate how a variety of romantic, realist, modernist, and postmodernist narratives represent the changing social spaces of their world, and of our own world system today.

### **Routledge Handbook of Forest Ecology**

Waveland Press  
It is increasingly recognized that the economic value of forests is not merely the production of timber. Forests provide other key ecosystem services, such as being sinks for greenhouse gases, hotspots of biodiversity, tourism and recreation. They are also vitally important in preventing soil erosion and controlling water supplies, as well as providing non-timber forest products and supporting the livelihoods of many local people. This handbook provides a detailed, comprehensive and broad coverage of forest economics, including traditional forest economics of timber production, economics of environmental role of forests, and recent developments in forest economics. The chapters are grouped into six parts: fundamental topics in

forest resource economics; economics of forest ecosystems; economics of forests, climate change, and bioenergy; economics of risk, uncertainty, and natural disturbances; economics of forest property rights and certification; and emerging issues and developments. Written by leading environmental, forest, and natural resource economists, the book represents a definitive reference volume for students of economics, environment, forestry and natural resource economics and management.

### **The Routledge Handbook of Indigenous Environmental Knowledge**

Routledge  
This handbook comprises essays by leading scholars and practitioners on the topic of U.S. counterterrorism and irregular warfare campaigns and operations around the globe. Terrorist groups have evolved substantially since 9/11, with the Islamic State often described as a pseudo-state, a terrorist group, and insurgency all at the same time. While researchers', analysts', and policymakers'

understanding of terrorism has grown immensely over the past two decades, similar advancements in the understanding of counterterrorism lag. As such, this handbook explains why it is necessary to take a broader view of counterterrorism which can, and often does, include irregular warfare. The volume is divided into three thematic sections: Part I examines modern terrorism in the Islamic world and gives an overview of the major terrorist groups from the past three decades; Part II provides a wide variety of case studies of counterterrorism and irregular warfare operations, spanning from the 1980s to the irregular warfare campaign against the Islamic State in northern Syria in 2018; Part III examines the government instruments used to combat terrorism and wage irregular warfare, such as drones, Theater Special Operations Commands, and Theater Commands. The handbook fills a gap in the traditional counterterrorism literature by its inclusion of irregular warfare and by providing analyses from academic experts as

well as practitioners. It will be of much interest to students of counterterrorism, counterinsurgency, U.S. national security, military affairs, and International Relations. The Open Access version of this book, available at <https://www.routledge.com/Routledge-Handbook-of-US-Counterterrorism-and-Irregular-Warfare-Operations/Sheehan-Marquardt-Collins/p/book/9780367758363>, has been made available under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license. *The Routledge Handbook of the Political Economy of the Environment* Routledge This volume provides a comprehensive overview of the interactions and feedbacks between urbanization and global environmental change. A key focus is the examination of how urbanization influences global environmental change, and how global environmental change in turn influences urbanization processes. It has four thematic foci: Theme 1 addresses the pathways through which urbanization drives global environmental change. Theme 2 addresses the

pathways through which global environmental change affects the urban system. Theme 3 addresses the interactions and responses within the urban system in response to global environmental change. Theme 4 centers on critical emerging research.

[The Routledge Handbook of Phonological Theory](#)  
Routledge

This Handbook is the first to explore the emergent field of 'placemaking' in terms of the recent research, teaching and learning, and practice agenda for the next few years. Offering valuable theoretical and practical insights from the leading scholars and practitioners in the field, it provides cutting-edge interdisciplinary research on the placemaking sector. Placemaking has seen a paradigmatic shift in urban design, planning, and policy to engage the community voice. This Handbook examines the development of placemaking, its emerging theories, and its future directions. The book is structured in seven distinct sections curated by experts in the areas concerned. Section One provides a glimpse at the history and key theories of placemaking and its

interpretations by different community sectors. Section Two studies the transformative potential of placemaking practice through case studies on different places, methodologies, and theoretical frameworks. It also reveals placemaking's potential to nurture a holistic community engagement, social justice, and human-centric urban environments. Section Three looks at the politics of placemaking to consider who is included and who is excluded from its practice and if the concept of placemaking needs to be reconstructed. Section Four deals with the scales and scopes of art-based placemaking, moving from the city to the neighborhood and further to the individual practice. It juxtaposes the voice of the practitioner and professional alongside that of the researcher and academic. Section Five tackles the socio-economic and environmental placemaking issues deemed pertinent to emerge more sustainable placemaking practices. Section Six emphasizes placemaking's intersection with urban

design and planning sectors and includes case studies of generative planning practice. The final seventh section draws on the expertise of placemakers, researchers, and evaluators to present the key questions today, new methods and approaches to evaluation of placemaking in related fields, and notions for the future of evaluation practices. Each section opens with an introduction to help the reader navigate the text. This organization of the book considers the sectors that operate alongside the core placemaking practice. This seminal Handbook offers a timely contribution and international perspectives for the growing field of placemaking. It will be of interest to academics and students of placemaking, urban design, urban planning and policy, architecture, geography, cultural studies, and the arts.

**The Routledge Handbook of Urbanization and Global Environmental Change** Routledge

More than half the world's population now lives in cities. Creating sustainable, healthy and aesthetic urban

environments is therefore a major policy goal and research agenda. This comprehensive handbook provides a global overview of the state of the art and science of urban forestry. It describes the multiple roles and benefits of urban green areas in general and the specific role of trees, including for issues such as air quality, human well-being and stormwater management. It reviews the various stresses experienced by trees in cities and tolerance mechanisms, as well as cultural techniques for either pre-conditioning or alleviating stress after planting. It sets out sound planning, design, species selection, establishment and management of urban trees. It shows that close interactions with the local urban communities who benefit from trees are key to success. By drawing upon international state-of-art knowledge on arboriculture and urban forestry, the book provides a definitive overview of the field and is an essential reference text for students, researchers and practitioners.

**Routledge Handbook of Urban Landscape Research** Taylor &

Francis Since the turn of the millennium, there has been a burgeoning interest in, and literature of, both landscape studies and food studies. Landscape describes places as relationships and processes. Landscapes create people's identities and guide their actions and their preferences, while at the same time are shaped by the actions and forces of people. Food, as currency, medium, and sustenance, is a fundamental part of those landscape relationships. This volume brings together over fifty contributors from around the world in forty profoundly interdisciplinary chapters. Chapter authors represent an astonishing range of disciplines, from agronomy, anthropology, archaeology, conservation, countryside management, cultural studies, ecology, ethics, geography, heritage studies, landscape architecture, landscape management and planning, literature, urban design and architecture. Both food studies and landscape studies defy comprehension from the perspective of a single discipline, and thus such a

range is both necessary and enriching. The Routledge Handbook of Landscape and Food is intended as a first port of call for scholars and researchers seeking to undertake new work at the many intersections of landscape and food. Each chapter provides an authoritative overview, a broad range of pertinent readings and references, and seeks to identify areas where new research is needed—though these may also be identified in the many fertile areas in which subjects and chapters overlap within the book.

*Routledge Handbook of Sustainability Indicators*  
Routledge

This handbook provides researchers and students with an overview of the field of sustainability indicators (SIs) as applied in the interdisciplinary field of sustainable development. The editors have sought to include views from the center ground of SI development but also divergent ideas which represent some of the diverse, challenging and even edgy observations which are prominent in the wider field of SI thinking. The contributions in this handbook: • clearly set out the theoretical

background and history of SIs, their origins, roots and initial goals • expand on the disciplines and modalities employed to develop SIs of various kinds • assess the various ways in which SI data are gathered and the availability (over space and time) and quality issues that surround them • explore the multiplex world of SIs as expressed in agencies around the world, via examples of SI practice and the lessons that have emerged from them • critically review the progress that SIs have made over the last 30 years • express the divergence of views which are held about the value of SIs, including differing theories on their efficacy, efficiency and ethics • explore the frontier of contemporary SI thinking, reviewing ante/post and systemic alternatives This multidisciplinary and international handbook will be of great interest to researchers, students and practitioners working in sustainability research and practice.

*Routledge Handbook of Ecological and Environmental Restoration*  
Routledge  
"Far-ranging and deeply researched, *Urban Forests* reveals the beauty and significance of the trees

around us.” —Elizabeth Kolbert, Pulitzer Prize-winning author of *The Sixth Extinction* “Jonnes extols the many contributions that trees make to city life and celebrates the men and women who stood up for America’s city trees over the past two centuries. . . . An authoritative account.” —Gerard Helferich, *The Wall Street Journal* “We all know that trees can make streets look prettier. But in her new book *Urban Forests*, Jill Jonnes explains how they make them safer as well.” —Sara Begley, *Time Magazine* A celebration of urban trees and the Americans—presidents, plant explorers, visionaries, citizen activists, scientists, nurserymen, and tree nerds—whose arboreal passions have shaped and ornamented the nation’s cities, from Jefferson’s day to the present As nature’s largest and longest-lived creations, trees play an extraordinarily important role in our cities; they are living landmarks that define space, cool the air, soothe our psyches, and connect us to nature and our past. Today, four-fifths of Americans live in or near urban areas, surrounded by millions of trees of hundreds of

different species. Despite their ubiquity and familiarity, most of us take trees for granted and know little of their fascinating natural history or remarkable civic virtues. Jill Jonnes’s *Urban Forests* tells the captivating stories of the founding mothers and fathers of urban forestry, in addition to those arboreal advocates presently using the latest technologies to illuminate the value of trees to public health and to our urban infrastructure. The book examines such questions as the character of American urban forests and the effect that tree-rich landscaping might have on commerce, crime, and human well-being. For amateur botanists, urbanists, environmentalists, and policymakers, *Urban Forests* will be a revelation of one of the greatest, most productive, and most beautiful of our natural resources.

*Routledge Handbook of Landscape and Food*  
Springer

This handbook is recognition of the need to better integrate physical and human geography. It combines a collection of work and research within the new field of Critical Physical Geography,

which gives critical attention to relations of social power with deep knowledge of a particular field of biophysical science. Critical Physical Geography research accords careful attention to biophysical landscapes and the power relations that have increasingly come to shape them, and to the politics of environmental science and the role of biophysical inquiry in promoting social and environmental justice. The *Palgrave Handbook of Critical Physical Geography* lays out the scope and guiding principles of Critical Physical Geography research. It presents a carefully selected set of empirical work, demonstrating the range and intellectual strength of existing integrative work in geography research. This handbook is the first of its kind to cover this emerging discipline and will be of significant interest to students and academics across the fields of geography, the environment and sustainability.

**The Palgrave Handbook of Critical Physical Geography**

Routledge

Featuring a stellar international cast list of

leading and cutting-edge scholars, *The Routledge Handbook of the Political Economy of the Environment* presents the state of the art of the discipline that considers ecological issues and crises from a political economy perspective. This collective volume sheds new light on the effect of economic and power inequality on environmental dynamics and, conversely, on the economic and social impact of environmental dynamics. The chapters gathered in this handbook make four original contributions to the field of political economy of the environment. First, they revisit essential concepts and methods of environmental economics in the light of their political economy. Second, they introduce readers to recent theoretical and empirical advances in key issues of political economy of the environment with a special focus on the relationship between inequality and environmental degradation, a nexus that has dramatically come into focus with the COVID crisis. Third, the authors of this handbook open the field to its critical global and regional dimensions:

global issues, such as the environmental justice movement and inequality and climate change as well as regional issues such as agriculture systems, air pollution, natural resources appropriation and urban sustainability. Fourth and finally, the work shows how novel analysis can translate into new forms of public policy that require institutional reform and new policy tools. Ecosystems preservation, international climate negotiations and climate mitigation policies all have a strong distributional dimension that chapters point to. Pressing environmental policy such as carbon pricing and low-carbon and energy transitions entail numerous social issues that also need to be accounted for with new analytical and technological tools. This handbook will be an invaluable reference, research and teaching tool for anyone interested in political economy approaches to environmental issues and ecological crises.

**Routledge Handbook of Forest Ecology** Edward Elgar Publishing  
This book reviews the major ways in which social scientists are

conceptualizing more integrated perspectives on society and nature, from the global to local levels. The chapters in this volume, by international experts from a variety of disciplines, explore the challenges, contradictions and consequences of socialecological change, along with the uncertainties and governance dilemmas they create.

**Routledge Handbook of the Study of the Commons**

Routledge  
The *Routledge Handbook of Planning Research Methods* is an expansive look at the traditions, methods, and challenges of research design and research projects in contemporary urban planning. Through case studies, an international group of researchers, planning practitioners, and planning academics and educators, all recognized authorities in the field, provide accounts of designing and implementing research projects from different approaches and venues. This book shows how to apply quantitative and qualitative methods to projects, and how to take your research from the classroom to the real world. The book is



structured into sections focusing on Beginning planning research Research design and development Rediscovering qualitative methods New advances in quantitative methods Turning research into action With chapters written by leading scholars in spatial planning, *The Routledge Handbook of Planning Research Methods* is the most authoritative and comprehensive handbook on the topic, providing both established and ground breaking coverage of spatial planning research methods. The book is an invaluable resource for undergraduate and graduate level students, young professionals and practitioners in urban, regional, and spatial planning.

[Routledge International Handbook of Rural Studies](#)  
Routledge

This volume provides an overview of key themes in Indigenous Environmental Knowledge (IEK) and anchors them with brief but well-grounded empirical case studies of relevance for each of these themes, drawn from bioculturally diverse areas around the world. It provides an incisive, cutting-edge overview of

the conceptual and philosophical issues, while providing constructive examples of how IEK studies have been implemented to beneficial effect in ecological restoration, stewardship, and governance schemes. Collectively, the chapters in the *Routledge Handbook of Indigenous Environmental Knowledge* cover Indigenous Knowledge not only in a wide range of cultures and livelihood contexts, but also in a wide range of environments, including drylands, savannah grassland, tropical forests, mountain landscapes, temperate and boreal forests, Pacific and Indian Ocean islands, and coastal environments. The chapters discuss the complexities and nuances of Indigenous cosmologies and ethno-metaphysics and the treatment and incorporation of IEK in local, national, and international environmental policies. Taken together, the chapters in this volume make a strong case for the potential of Indigenous Knowledge in addressing today's local and global environmental challenges, especially when approached from a perspective of appreciative inquiry, using

cross-cultural methods and ethical, collaborative approaches which limit bias and inappropriate extraction of IEK. The book is a guide for graduate and advanced undergraduate teaching, and a key reference for academics in development studies, environmental studies, geography, anthropology, and beyond, as well as anyone with an interest in Indigenous Environmental Knowledge.

*The Routledge Handbook of Urban Ecology* Taylor & Francis

This volume represents the result of almost two decades of trans-Atlantic collaborative development of a policy research paradigm, the International Comparative Rural Policy Studies program. Over this period dozens of scientists from different disciplines but with a common interest in rural issues and policy have collaboratively studied the policies in North America, Europe, and other parts of the world. A core element of the book is the idea and practice of comparative research and analysis – what can be learned from comparisons, how and why policies vary in different contexts, and what lessons might or

might not be “transferable” across borders. It provides skills for the use of comparative methods as important tools to analyze the functioning of strategies and specific policy interventions in different contexts and a holistic approach for the management of resources in rural regions. It promotes innovation as a tool to valorize endogenous resources and empower local communities and offers case studies of rural policy in specific contexts. The book largely adopts a territorial approach to rural policy. This means the book is more interested in rural regions, their people and economies, and in the policies that affect them, than in rural sectors, and sectoral policies per se. The audience of the book is by definition international and includes students attending courses in agricultural and rural policy, rural and regional studies, and natural resource management; lecturers

seeking course material and case studies to present to their students in any of the courses listed above; professionals working in the field of rural policy; policy-makers and civil servants at different levels seeking tools to better understand rural policy both at the local and global scale and to better recognize and comprehend how to transfer best practices.

### **The Community Food Forest Handbook**

Penguin

The Handbook provides a supporting guide to key aspects and applications of landscape ecology to underpin its research and teaching. A wide range of contributions written by expert researchers in the field summarize the latest knowledge on landscape ecology theory and concepts, landscape processes, methods and tools, and emerging frontiers. Landscape ecology is an interdisciplinary and holistic discipline, and this is reflected in the chapters contained in this Handbook. Authors from

varying disciplinary backgrounds tackle key concepts such as landscape structure and function, scale and connectivity; landscape processes such as disturbance, flows, and fragmentation; methods such as remote sensing and mapping, fieldwork, pattern analysis, modelling, and participation and engagement in landscape planning; and emerging frontiers such as ecosystem services, landscape approaches to biodiversity conservation, and climate change. Each chapter provides a blend of the latest scientific understanding of its focal topics along with considerations and examples of their application from around the world. An invaluable guide to the concepts, methods, and applications of landscape ecology, this book will be an important reference text for a wide range of students and academics in ecology, geography, biology, and interdisciplinary environmental studies.