

# **Routledge Handbook Of Forest Ecology**

## **Routledge Handbooks**

Ecology of Woodlands and ForestsRoutledge Handbook of Ecological and Environmental RestorationExam Prep for: Routledge Handbook of Forest EcologyRoutledge Handbook of Ecocultural IdentityThe Routledge Handbook of Political EcologyRoutledge Handbook of Forest EcologyThe Forest Certification HandbookVascular EpiphytesThe Ecology of Tropical East AsiaForest Ecology and ConservationUrban ForestryBiodiversity Conservation in Latin America and the CaribbeanExam Prep Flash Cards for Routledge Handbook of Forest EcologyRoutledge Handbook of Sustainability IndicatorsRoutledge Handbook of Environmental AnthropologyRoutledge Handbook of Forest EcologyPolitical Ecology of REDD+ in IndonesiaRoutledge Handbook of the Climate Change MovementRoutledge Handbook of Ecosystem ServicesRoutledge Handbook of the Environment in Southeast AsiaThe Routledge Handbook of Indigenous Environmental KnowledgeExam Prep for: Routledge Handbook of Forest EcologyEcosystem Goods and Services from Plantation ForestsHandbook of Ecological Indicators for Assessment of Ecosystem HealthTerrestrial Ecosystems and BiodiversityThe Routledge Handbook of Sensory ArchaeologyThe Green MenaceRoutledge Handbook of the Study of the CommonsManaging for Healthy EcosystemsEcosystem Services and Poverty Alleviation (OPEN ACCESS)Routledge

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Handbook of Landscape and Food Forests, Business and Sustainability Handbook of Forest Resource Economics Ecological Forest Management Handbook The Forest Landscape Restoration Handbook Routledge Handbook of Agricultural Biodiversity Routledge Handbook of Urban Forestry Feminist Political Ecology Landscape and Land Capacity Routledge Handbook of Gender and Environment

### **Ecology of Woodlands and Forests**

The Routledge Handbook of Political Ecology presents a comprehensive and authoritative examination of the rapidly growing field of political ecology. Located at the intersection of geography, anthropology, sociology, and environmental history, political ecology is one of the most vibrant and conceptually diverse fields of inquiry into nature-society relations within the social sciences. The Handbook serves as an essential guide to this rapidly evolving intellectual landscape. With contributions from over 50 leading authors, the Handbook presents a systematic overview of political ecology's origins, practices and core concerns, and aims to advance both ongoing and emerging debates. While there are numerous edited volumes, textbooks, and monographs under the heading 'political ecology,' these have tended to be relatively narrow in scope, either as collections of empirically based (mostly case study) research on a given theme, or broad overviews of the

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field aimed at undergraduate audiences. The Routledge Handbook of Political Ecology is the first systematic, comprehensive overview of the field. With authors from North and South America, Europe, Australia and elsewhere, the Handbook of Political Ecology provides a state of the art examination of political ecology; addresses ongoing and emerging debates in this rapidly evolving field; and charts new agendas for research, policy, and activism. The Routledge Handbook of Political Ecology introduces political ecology as an interdisciplinary academic field. By presenting a 'state of the art' examination of the field, it will serve as an invaluable resource for students and scholars. It not only critically reviews the key debates in the field, but develops them. The Handbook will serve as an excellent resource for graduate and advanced undergraduate teaching, and is a key reference text for geographers, anthropologists, sociologists, environmental historians, and others working in and around political ecology.

### **Routledge Handbook of Ecological and Environmental Restoration**

Latin America and the Caribbean (LAC) region is exceptionally biodiverse. It contains about half of the world's remaining tropical forests, nearly one-fifth of its coastal habitats, and some of its most productive agricultural and marine areas. But agriculture, fishing and other human activities linked to rapid population and

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economic growth increasingly threaten that biodiversity. Moreover, poverty, weak regulatory capacity, and limited political will hamper conservation. Given this dilemma, it is critically important to design conservation strategies on the basis of the best available information about both biodiversity and the track records of the various policies that have been used to protect it. This rigorously researched book has three key aims. It describes the status of biodiversity in LAC, the main threats to this biodiversity, and the drivers of these threats. It identifies the main policies being used to conserve biodiversity and assesses their effectiveness and potential for further implementation. It proposes five specific lines of practical action for conserving LAC biodiversity, based on: green agriculture; strengthening terrestrial protected areas and co-management; improving environmental governance; strengthening coastal and marine resource management; and improving biodiversity data and policy evaluation.

### **Exam Prep for: Routledge Handbook of Forest Ecology**

This volume is an account of the scientific and social responses made to the discovery of an invasive forest insect -- the emerald ash borer or EAB (*Agrilus planipennis* Fairmaire, 1888) -- in North America, that was formally announced in July 2002. Since its recognition, this wood-boring beetle has become one of the most destructive and costly exotic species ever encountered. More than \$300 million in federal USDA-APHIS funds (alone) have been devoted to battling this

pest, which has killed some tens of millions of ash trees, chiefly within southeastern Michigan and surrounding states. EAB has now been found in 28 states and two Canadian provinces. But those numbers are almost certain to keep growing in coming years. While primarily a case study, this work nonetheless examines larger issues concerning invasive species as a whole, their inadvertent transport and worldwide spread through the rise of globalization, regulations that have been adopted to prevent their introduction, and the successes or failures of state and federal agencies to try and enforce those regulations. It offers the first general work of its kind to appear on the ash borer that is directed towards a broad audience including the public, entomologists and foresters, environmentalists and ecologists, researchers, regulators, and indeed anyone who wishes to learn more about this important and timely topic. No previous knowledge of EAB or invasion biology is assumed. This book covers all of the major aspects of scientific research and management that have occurred since EAB was recognized in 2002. It is thoroughly researched and draws from the best available data and sources, which represent (a) archival materials; (b) scholarly publications and conference proceedings; (c) interviews conducted with leading participants in the EAB program; (d) selected newspaper/magazine articles; and (e) reputable sources found on the Internet (e.g., USDA-APHIS).

## **Routledge Handbook of Ecocultural Identity**

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Forests are under tremendous pressure from human uses of all kinds, and one of the most significant threats to their sustainability comes from commercial interests. This book presents a comprehensive examination of the interactions between the forest products sector and the sustainability of forests. It captures the most current sustainability concerns within the forestry sector and various sustainability-oriented initiatives to address these. Experts from around the world analyze interconnected topics including market mechanisms, regulatory mechanisms, voluntary actions, and governance, and outline their effectiveness, potential, and limitations. By presenting a novel overview of the burgeoning field of business sustainability within the forestry sector, this book paves a way forward in understanding what is working, what is not working, and what could potentially work to ensure sustainable business practices within the forestry sector,

### **The Routledge Handbook of Political Ecology**

Plantation forests often have a negative image. They are typically assumed to be poor substitutes for natural forests, particularly in terms of biodiversity conservation, carbon storage, provision of clean drinking water and other non-timber goods and services. Often they are monocultures that do not appear to invite people for recreation and other direct uses. Yet as this book clearly shows, they can play a vital role in the provision of ecosystem services, when compared to agriculture and other forms of land use or when natural forests have been

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degraded. This is the first book to examine explicitly the non-timber goods and services provided by plantation forests, including soil, water and biodiversity conservation, as well as carbon sequestration and the provision of local livelihoods. The authors show that, if we require a higher provision of ecosystem goods and services from both temperate and tropical plantations, new approaches to their management are required. These include policies, methods for valuing the services, the practices of small landholders, landscape approaches to optimise delivery of goods and services, and technical issues about how to achieve suitable solutions at the scale of forest stands. While providing original theoretical insights, the book also gives guidance for plantation managers, policy-makers, conservation practitioners and community advocates, who seek to promote or strengthen the multiple-use of forest plantations for improved benefits for society. Published with CIFOR

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

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

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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.

### **The Forest Certification Handbook**

The Routledge Handbook of Ecocultural Identity brings the ecological turn to sociocultural understandings of self. The editors introduce a broad, insightful assembly of original theory and research on planetary positionalities in flux in the Anthropocene - or what in this Handbook cultural ecologist David Abram presciently renames the Humilocene, a new "epoch of humility." Forty international authors craft a kaleidoscopic lens, focusing on the following key interdisciplinary inquiries: Part I illuminates identity as always ecocultural,

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expanding dominant understandings of who we are and how our ways of identifying engender earthly outcomes. Part II examines ways ecocultural identities are fostered and how difference and spaces of interaction can be sources of environmental conviviality. Part III illustrates consequential ways the media sphere informs, challenges, and amplifies particular ecocultural identities. Part IV delves into the constitutive power of ecocultural identities and illuminates ways ecological forces shape the political sphere. Part V demonstrates multiple and unspooling ways in which ecocultural identities can evolve and transform to recall ways forward to reciprocal surviving and thriving. The Routledge Handbook of Ecocultural Identity provides an essential resource for scholars, teachers, students, protectors, and practitioners interested in ecological and sociocultural regeneration.

### **Vascular Epiphytes**

Forests have become the focus of intense conservation interest over the past two decades, reflecting widespread concern about high rates of deforestation and forest degradation, particularly in tropical countries. The aim of this book is to outline the main methods and techniques available to forest ecologists.

### **The Ecology of Tropical East Asia**

## **Forest Ecology and Conservation**

'The Ecology of Tropical East Asia' was the first book to describe the terrestrial ecology of the entire East Asian tropics and sub-tropics, from southern China to western Indonesia. This edition updates the contents and extends the coverage to include the similar ecosystems of northeast India. The book deals with plants, animals, and the ecosystems they inhabit, as well as the diverse threats to their survival and the options for conservation.

## **Urban Forestry**

This comprehensive handbook provides a unique resource covering all aspects of forest ecology from a global perspective. It covers both natural and managed forests, from boreal, temperate, sub-tropical and tropical regions of the world. The book is divided into seven parts, addressing the following themes: forest types forest dynamics forest flora and fauna energy and nutrients forest conservation and management forests and climate change human impacts on forest ecology. While each chapter can stand alone as a suitable resource for a lecture or seminar, the complete book provides an essential reference text for a wide range of students of ecology, environmental science, forestry, geography and natural

resource management. Contributors include leading authorities from all parts of the world.

## **Biodiversity Conservation in Latin America and the Caribbean**

The world relies on very few crop and animal species for agriculture and to supply its food needs. In recent decades, there has been increased appreciation of the risk this implies for food security and quality, especially in times of environmental change. As a result, agricultural biodiversity has moved to the top of research and policy agendas. This Handbook presents a comprehensive overview of our current knowledge of agricultural biodiversity in a series of specially commissioned chapters. It draws on multiple disciplines including plant and animal genetics, ecology, crop and animal science, food studies and nutrition, as well as social science subjects which explore the socio-economic, cultural, institutional, legal and policy aspects of agricultural biodiversity. It focuses not only on the core requirements to deliver a sustainable agriculture and food supply, but also highlights the additional ecosystem services provided by a diverse and resilient agricultural landscape and farming practices. The book provides an indispensable reference textbook for a wide range of courses in agriculture, ecology, biodiversity conservation and environmental studies.

## **Exam Prep Flash Cards for Routledge Handbook of Forest Ecology**

This comprehensive handbook provides a unique resource covering all aspects of forest ecology from a global perspective. It covers both natural and managed forests, from boreal, temperate, sub-tropical and tropical regions of the world. The book is divided into seven parts, addressing the following themes: forest types forest dynamics forest flora and fauna energy and nutrients forest conservation and management forests and climate change human impacts on forest ecology. While each chapter can stand alone as a suitable resource for a lecture or seminar, the complete book provides an essential reference text for a wide range of students of ecology, environmental science, forestry, geography and natural resource management. Contributors include leading authorities from all parts of the world.

## **Routledge Handbook of Sustainability Indicators**

## **Routledge Handbook of Environmental Anthropology**

One of the critical issues of our time is the dwindling capacity of the planet to

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provide life support for a large and growing human population. Based on a symposium on ecosystem health, *Managing for Healthy Ecosystems* identifies key issues that must be resolved if there is to be progress in this complex area, such as: Evolving methods f

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

First published in 1995, *The Forest Certification Handbook* has become the landmark book concerning all aspects of forest and wood product certification from policy to business to in-the-field technical issues. Yet since first publication an enormous amount has happened in the field. This new second edition has been entirely rewritten to incorporate the changes over the past decade, and is a complete and up-to-date source of information on all aspects of developing, selecting and operating a forest certification programme that provides both market security and raises standards of forest management.

### **Political Ecology of REDD+ in Indonesia**

Ecological restoration is a rapidly evolving discipline that is engaged with developing both methodologies and strategies for repairing damaged and polluted ecosystems and environments. During the last decade the rapid pace of climate

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change coupled with continuing habitat destruction and the spread of non-native species to new habitats has forced restoration ecologists to re-evaluate their goals and the methods they use. This comprehensive handbook brings together an internationally respected group of established and rising experts in the field. The book begins with a description of current practices and the state of knowledge in particular areas of restoration, and then identifies new directions that will help the field achieve increasing levels of future success. Part I provides basic background about ecological and environmental restoration. Part II systematically reviews restoration in key ecosystem types located throughout the world. In Part III, management and policy issues are examined in detail, offering the first comprehensive treatment of policy relevance in the field, while Part IV looks to the future. Ultimately, good ecological restoration depends upon a combination of good science, policy, planning and outreach – all issues that are addressed in this unrivalled volume.

### **Routledge Handbook of the Climate Change Movement**

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

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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.

### **Routledge Handbook of Ecosystem Services**

Authored by world-class scientists and scholars, The Handbook of Natural Resources, Second Edition, is an excellent reference for understanding the consequences of changing natural resources to the degradation of ecological integrity and the sustainability of life. Based on the content of the bestselling and CHOICE-awarded Encyclopedia of Natural Resources, this new edition demonstrates the major challenges that the society is facing for the sustainability of all well-being on the planet Earth. The experience, evidence, methods, and models used in studying natural resources are presented in six stand-alone

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volumes, arranged along the main systems of land, water, and air. It reviews state-of-the-art knowledge, highlights advances made in different areas, and provides guidance for the appropriate use of remote sensing and geospatial data with field-based measurements in the study of natural resources. Volume 2, Landscape and Land Capacity, covers soils and landscape issues, their diversity and importance, and how soils are related to the landscapes in which they form. It includes discussions on land conservation, land-use and land-cover changes, and urban environments and unravels the complex bond between humans and soils. New in this edition are discussions on habitat conservation and planning, landscape epidemiology and vector-borne disease, and landscape patterns and changes. This volume demonstrates the key processes, methods, and models used through several practical case studies from around the world. Written in an easy-to-reference manner, *The Handbook of Natural Resources, Second Edition*, as individual volumes or as a complete set, is an essential reading for anyone looking for a deeper understanding of the science and management of natural resources. Public and private libraries, educational and research institutions, scientists, scholars, and resource managers will benefit enormously from this set. Individual volumes and chapters can also be used in a wide variety of both graduate and undergraduate courses in environmental science and natural science at different levels and disciplines, such as biology, geography, earth system science, and ecology.

## **Routledge Handbook of the Environment in Southeast Asia**

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 Indigenous Environmental Knowledge**

The Routledge Handbook of Gender and Environment gathers together state-of-the-art theoretical reflections and empirical research from leading researchers and practitioners working in this transdisciplinary and transnational academic field. Over the course of the book, these contributors provide critical analyses of the gender dimensions of a wide range of timely and challenging topics, from sustainable development and climate change politics, to queer ecology and interspecies ethics in the so-called Anthropocene. Presenting a comprehensive overview of the development of the field from early political critiques of the male domination of women and nature in the 1980s to the sophisticated intersectional and inclusive analyses of the present, the volume is divided into four parts: Part I: Foundations Part II: Approaches Part III: Politics, policy and practice Part IV: Futures. Comprising chapters written by forty contributors with different perspectives and working in a wide range of research contexts around the world, this Handbook will serve as a vital resource for scholars, students, and practitioners in environmental studies, gender studies, human geography, and the

environmental humanities and social sciences more broadly.

## **Exam Prep for: Routledge Handbook of Forest Ecology**

The "commons" has come to mean many things to many people, and the term is often used inconsistently. The study of the commons has expanded dramatically since Garrett Hardin's *The Tragedy of the Commons* (1968) popularized the dilemma faced by users of common pool resources. This comprehensive Handbook serves as a unique synthesis and resource for understanding how analytical frameworks developed within the literature assist in understanding the nature and management of commons resources. Such frameworks include those related to Institutional Analysis and Development, Social-Ecological Systems, and Polycentricity, among others. The book aggregates and analyses these frameworks to lay a foundation for exploring how they apply according to scholars across a wide range of disciplines. It includes an exploration of the unique problems arising in different disciplines of commons study, including natural resources (forests, oceans, water, energy, ecosystems, etc), economics, law, governance, the humanities, and intellectual property. It shows how the analytical frameworks discussed early in the book facilitate interdisciplinarity within commons scholarship. This interdisciplinary approach within the context of analytical frameworks helps facilitate a more complete understanding of the similarities and differences faced by commons resource users and managers, the usefulness of the

commons lens as an analytical tool for studying resource management problems, and the best mechanisms by which to formulate policies aimed at addressing such problems.

## **Ecosystem Goods and Services from Plantation Forests**

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.

## **Handbook of Ecological Indicators for Assessment of Ecosystem Health**

Epiphytes (plants which grow on other plants, not parasitically but for support), comprise more than one-third of the total vascular flora in some tropical forests. Growing within tropical forest canopies, epiphytes are subject to severe environmental constraints, and their diverse adaptations make them a rich resource for studies of water balance, nutrition, reproduction and evolution. This book synthesizes the body of information from research on epiphytes and their relations with other tropical biota, and provides a comprehensive overview of basic functions, life history, evolution, and the place of epiphytes in complex tropical communities. Tropical ecologists and zoologists as well as plant scientists will find this volume a useful guide to research on the twenty-five thousand species of epiphytes which root in the crowns of tropical trees.

## **Terrestrial Ecosystems and Biodiversity**

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Environmental Anthropology studies historic and present human-environment interactions. This volume illustrates the ways in which today's environmental anthropologists are constructing new paradigms for understanding the multiplicity of players, pressures, and ecologies in every environment, and the value of cultural knowledge of landscapes. This Handbook provides a comprehensive survey of contemporary topics in environmental anthropology and thorough discussions on the current state and prospective future of the field in seven key sections. As the contributions to this Handbook demonstrate, the subfield of environmental anthropology is responding to cultural adaptations and responses to environmental changes in multiple and complex ways. As a discipline concerned primarily with human-environment interaction, environmental anthropologists recognize that we are now working within a pressure cooker of rapid environmental damage that is forcing behavioural and often cultural changes around the world. As we see in the breadth of topics presented in this volume, these environmental challenges have inspired renewed foci on traditional topics such as food procurement, ethnobiology, and spiritual ecology; and a broad new range of subjects, such as resilience, nonhuman rights, architectural anthropology, industrialism, and education. This volume enables scholars and students quick access to both established and trending environmental anthropological explorations into theory, methodology and practice.

## **The Routledge Handbook of Sensory Archaeology**

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Forests are valued not only for their economic potential, but also for the biodiversity they contain, the ecological services they provide, and the recreational, cultural, and spiritual opportunities they provide. The Ecological Forest Management Handbook provides a comprehensive summary of interrelated topics in the field, including management concepts, forest models, and ecological indicators. Featuring contributions from experts on the three main forest types—boreal, temperate, and tropical—this book presents in-depth coverage of important issues in ecological forest management and includes case studies addressing ecological and socioeconomic issues. It illustrates how ecological forest management is a complex process that requires broad ecological knowledge while giving readers a deeper understanding of basic principles and applications.

### **The Green Menace**

The field of ecosystem health explores the interactions between natural systems, human health, and social organization. As decision makers require a sound, modular approach to environmental management and sustainable development, ecosystem health assessment indicators are increasingly used across any number of applications. The Handbook of Ecologic

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

A concise, non-technical account of the structure and evolution of woodlands and forests, first published in 2007.

## **Managing for Healthy Ecosystems**

Edited by two pioneers in the field of sensory archaeology, this Handbook comprises a key point of reference for the ever-expanding field of sensory archaeology: one that surpasses previous books in this field, both in scope and critical intent. This Handbook provides an extensive set of specially commissioned chapters, each of which summarizes and critically reflects on progress made in this dynamic field during the early years of the twenty-first century. The authors identify and discuss the key current concepts and debates of sensory archaeology, providing overviews and commentaries on its methods and its place in interdisciplinary sensual culture studies. Through a set of thematic studies, they explore diverse sensorial practices, contexts and materials, and offer a selection of archaeological case-studies from different parts of the world. In the light of this, the research methods now being brought into the service of sensory archaeology are re-examined. Of interest to scholars, students and others with an interest in archaeology around the world, this book will be invaluable to archaeologists and is also of relevance to scholars working in disciplines contributing to sensory studies: aesthetics, anthropology, architecture, art history, communication studies, history

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(including history of science), geography, literary and cultural studies, material culture studies, museology, philosophy, psychology, and sociology.

### **Ecosystem Services and Poverty Alleviation (OPEN ACCESS)**

This handbook provides a comprehensive overview of the growing transnational climate movement. A dual focus on climate politics and civil society provides a hitherto unavailable broad and systematic analysis of the current global movement, highlighting how its dynamic and diverse character can play an important role in environmental politics and climate protection. The range of contributors, from well-known academics to activist-scholars, look at climate movements in the developed and developing world, north and south, small and large, central and marginal. The movement is examined as a whole and as single actors, thereby capturing its scope, structure, development, activities and influence. The book thoroughly addresses theoretical approaches, from classic social movement theory to the influence of environmental justice frames, and follows this with a systematic focus on regions, specific NGOs and activists, cases and strategies, as well as relations with peripheral groups. In its breadth, balance and depth, this accessible volume offers a fresh and important take on the question of social mobilization around climate change, making it an essential text for advanced undergraduates, postgraduate students and researchers in the social sciences.

## **Routledge Handbook of Landscape and Food**

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.

## **Forests, Business and Sustainability**

Feminist Political Ecology explores the gendered relations of ecologies, economies and politics in communities as diverse as the rubber tappers in the rainforests of

Brazil to activist groups fighting racism in New York City. Women are often at the centre of these struggles, struggles which concern local knowledge, everyday practice, rights to resources, sustainable development, environmental quality, and social justice. The book bridges the gap between the academic and rural orientation of political ecology and the largely activist and urban focus of environmental justice movements.

## **Handbook of Forest Resource Economics**

The environment is one of the defining issues of our times, and it is closely linked to questions and dilemmas surrounding economic development. Southeast Asia is one of the world's most economically and demographically dynamic regions, and it is also one in which a host of environmental issues raise themselves. The Routledge Handbook of the Environment in Southeast Asia is a collection of 30 chapters dealing with the most significant scholarly debates in this rapidly growing field of study. Structured in four main parts, it gives a comprehensive regional overview of, and insight into, the environment in Southeast Asia. Wide-ranging and balanced, this handbook promotes scholarly understanding of how environmental issues are dealt with from diverse theoretical perspectives. It offers a detailed empirical understanding of the myriad environmental problems and challenges faced in Southeast Asia. This is the first publication of its kind in this field; a helpful companion for a global audience and for scholars of Southeast Asian studies from a

variety of disciplines.

## **Ecological Forest Management Handbook**

Indonesia's commitment to reducing land-based greenhouse gas emissions significantly includes the expansion of conservation areas, but these developments are not free of conflicts. This book provides a comprehensive analysis of agrarian conflicts in the context of the implementation of REDD+ (Reducing Emissions from Deforestation and Forest Degradation) and forest carbon offsetting in Indonesia, a country where deforestation is a major issue. The author analyzes new kinds of transnational agrarian conflicts which have strong implications for global environmental justice in the REDD+ pilot province of Jambi on the island of Sumatra. The chapters cover: the rescaling of the governance of forests; privatization of conservation; and the transnational dimensions of agrarian conflicts and peasants' resistance in the context of REDD+. The book builds on an innovative conceptual approach linking political ecology, politics of scale and theories of power. It fills an important knowledge and research gap by focusing on the socially differentiated impacts of REDD+ and new forest carbon offsetting initiatives in Southeast Asia, providing a multi-scalar perspective. It is aimed at scholars in the areas of political ecology, human geography, climate change mitigation, forest and natural resource management, as well as environmental justice and agrarian studies.

## **The Forest Landscape Restoration Handbook**

### **Routledge Handbook of Agricultural Biodiversity**

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 views 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 SSI practice and the lessons that have emerged from them.
- Critically review the progress that SIs have made over the last thirty year
- Express the divergence of views which are held about the value of SIs including differing views about their efficacy, efficiency and ethics
- Explore the frontier of contemporary SI thinking, reviewing anti/ post and systemic alternatives

This multidisciplinary and international Handbook will be

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of great interest to researchers, students and practitioners working in sustainability research and practice.

### **Routledge Handbook of Urban Forestry**

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.

### **Feminist Political Ecology**

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Authored by world-class scientists and scholars, *The Handbook of Natural Resources, Second Edition*, is an excellent reference for understanding the consequences of changing natural resources to the degradation of ecological integrity and the sustainability of life. Based on the content of the bestselling and CHOICE-awarded *Encyclopedia of Natural Resources*, this new edition demonstrates the major challenges that the society is facing for the sustainability of all well-being on the planet Earth. The experience, evidence, methods, and models used in studying natural resources are presented in six stand-alone volumes, arranged along the main systems of land, water, and air. It reviews state-of-the-art knowledge, highlights advances made in different areas, and provides guidance for the appropriate use of remote sensing and geospatial data with field-based measurements in the study of natural resources. Volume 1, *Terrestrial Ecosystems and Biodiversity*, provides fundamental information on terrestrial ecosystems, approaches to monitoring, and impacts of climate change on natural vegetation and forests. New to this edition are discussions on biodiversity conservation, gross and net primary production, soil microbiology, land surface phenology, and decision support systems. This volume demonstrates the key processes, methods, and models used through many case studies from around the world. Written in an easy-to-reference manner, *The Handbook of Natural Resources, Second Edition*, as individual volumes or as a complete set, is an essential reading for anyone looking for a deeper understanding of the science and management of natural resources. Public and private libraries, educational and

research institutions, scientists, scholars, and resource managers will benefit enormously from this set. Individual volumes and chapters can also be used in a wide variety of both graduate and undergraduate courses in environmental science and natural science at different levels and disciplines, such as biology, geography, earth system science, and ecology.

## **Landscape and Land Capacity**

Understanding how to sustain the services that ecosystems provide in support of human wellbeing is an active and growing research area. This book provides a state-of-the-art review of current thinking on the links between ecosystem services and poverty alleviation. In part it showcases the key findings of the Ecosystem Services for Poverty Alleviation (ESPA) programme, which has funded over 120 research projects in more than 50 countries since 2010. ESPA's goal is to ensure that ecosystems are being sustainably managed in a way that contributes to poverty alleviation as well as to inclusive and sustainable growth. As governments across the world map how they will achieve the 17 ambitious Sustainable Development Goals, most of which have poverty alleviation, wellbeing and sustainable environmental management at their heart, ESPA's findings have never been more timely and relevant. The book synthesises the headline messages and compelling evidence to address the questions at the heart of ecosystems and wellbeing research. The authors, all leading specialists, address the evolving

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framings and contexts for the work, review the impacts of ongoing drivers of change, present new ways to achieve sustainable wellbeing, equity, diversity, and resilience, and evaluate the potential contributions from conservation projects, payment schemes, and novel governance approaches across scales from local to national and international. The cross-cutting, thematic chapters challenge conventional wisdom in some areas, and validate new methods and approaches for sustainable development in others. The book will provide a rich and important reference source for advanced students, researchers and policy-makers in ecology, environmental studies, ecological economics and sustainable development. The Open Access version of this book, available at <https://www.taylorfrancis.com/books/e/9780429016295>, has been made available under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license.

### **Routledge Handbook of Gender and Environment**

Forest loss and degradation have caused a decline in the quality of ecosystem services around the world. But fixing the problem takes more than just planting trees; practitioners increasingly realize that a landscape approach is essential. This handbook, authored and edited by international authorities in the field of forestry, is the first practical guide to using forest landscape restoration (FLR) to repair the damage done to forest lands by poor land management practice. Using research backed by respected institutions such as ITTO and the World Conservation Union

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(IUCN), it explains how to increase the resilience of landscapes and the communities they support through FLR. The main aim of FLR is not to re-establish pristine forest, even if this were possible; rather, the objective is to make landscapes more resilient and thereby keep future management options open. It also aims to support communities as they strive to increase and sustain the benefits they derive from land management. This book explains the concept of FLR and guides the reader through the steps that must be taken to put it into practice. It is an indispensable aid for practitioners in all aspects of forestry and natural resource management.

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