

The Dynamic Landscape Design Ecology And Management

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Planting Design - Patrick Mooney 2019-11-19

Landscape designers have long understood the use of plants to provide beauty, aesthetic pleasure and visual stimulation while supporting a broad range of functional goals. However, the potential for plants in the landscape to elicit human involvement and provide mental stimulation and restoration is much less well understood. This book meshes the art of planting design with an understanding of how humans respond to natural environments. Beginning with an understanding of human needs, preferences and responses to landscape, the author interprets the ways in which an understanding of the human-environment interaction can inform planting design. Many of the principles and techniques that may be used in planting design are beautifully illustrated in full colour with examples by leading landscape architects and designers from the United Kingdom, Europe, North America and Asia, including: Andrea Cochran, Andrea Cochran Landscape Architecture, San Francisco, CA Design Workshop Inc. Richard Hartlage, Land Morphology, Seattle, WA Shunmyo Masuno, Japan Landscape Consultants Ltd., Yokohama Piet Oudolf, Hummelo, The Netherlands Melody Redekop, Vancouver Christine Ten Eyck, Ten Eyck Landscape Architects Inc., Austin, TX Kongjian Yu, Turenscape Ltd., Beijing. The book stimulates thought, provides new direction and assists the reader to find their own unique design voice. Because there are many valid processes and intentions for landscape design, the book is not intended to be overly prescriptive. Rather than presenting a strict design method and accompanying set of rules, Planting Design provides information, insight and inspiration as a basis for developing the individual designer's own expression in this most challenging of art forms.

Ecologist-Developed Spatially-Explicit Dynamic Landscape Models - James D. Westervelt 2012-04-14

This book is written for ecologists interested in capturing their understandings of how natural systems work in software - to help inform their work and communicate the consequences of proposed management plans. Historically, ecologists had to rely on the skills of trained computer programmers to modeling natural systems, but now a new generation of software is allowing ecologists to directly capture their understandings of systems in software. This book is a compilation of spatially explicit simulation models developed by ecologists and planners without any formal computer programming skills. Readers will be inspired to believe that they too can create similar models of the systems with which they are familiar.

Landscape Ecology: A Widening Foundation - Vittorio Ingegnoli 2013-04-17

The urgent need for a sustainable environment has resulted in the increased recognition of the field of landscape ecology amongst policy makers working in the area of nature conservation, restoration and territorial planning. Nonetheless, the question of what is precisely meant by the term landscape ecology is still unresolved. No doubt, a proper foundation of the discipline must first be cemented. This book develops such a foundation. In doing so it provides all the diverse applications of the discipline with a solid framework and proposes an effective diagnostic methodology to investigate the ecological state and the pathologies of the landscape.

Integrating Landscape Ecology Into Natural Resource Management - Daniel Moshe Kaplan 2002-08

The rapidly increasing global population has dramatically increased the demands for natural resources and has caused significant changes in quantity and quality of natural resources. To achieve sustainable resource management, it is essential to obtain insightful guidance from emerging disciplines such as landscape ecology. This text addresses the links between landscape ecology and natural resource management. These links are discussed in the context of various landscape types, a diverse set of resources and a wide range of management issues. A large number of landscape ecology concepts, principles and methods are introduced.

Critical reviews of past management practices and a number of case studies are presented. This text provides many guidelines for managing natural resources from a landscape perspective and offers useful suggestions for landscape ecologists to carry out research relevant to natural resource management. In addition, it will be an ideal supplemental text for graduate and advanced undergraduate ecology courses.

"The Planetary Garden" and Other Writings - Gilles Clément 2015-06-19

Celebrated landscape architect Gilles Clément may be best known for his public parks in Paris, including the Parc André Citroën and the garden of the Musée du Quai Branly, but he describes himself as a gardener. To care for and cultivate a plot of land, a capable gardener must observe in order to act and work with, rather than against, the natural ecosystem of the garden. In this sense, he suggests, we should think of the entire planet as a garden, and ourselves as its keepers, responsible for the care of its complexity and diversity of life. "The Planetary Garden" is an environmental manifesto that outlines Clément's interpretation of the laws that govern the natural world and the principles that should guide our stewardship of the global garden of Earth. These are among the tenets of a humanist ecology, which posits that the natural world and humankind cannot be understood as separate from one another. This philosophy forms a thread that is woven through the accompanying essays of this volume: "Life, Constantly Inventive: Reflections of a Humanist Ecologist" and "The Wisdom of the Gardener." Brought together and translated into English for the first time, these three texts make a powerful statement about the nature of the world and humanity's place within it.

Urbanization, Biodiversity and Ecosystem Services: Challenges and Opportunities - Thomas Elmqvist 2013-09-21

Urbanization is a global phenomenon and the book emphasizes that this is not just a social-technological process. It is also a social-ecological process where cities are places for nature, and where cities also are dependent on, and have impacts on, the biosphere at different scales from local to global. The book is a global assessment and delivers four main conclusions: Urban areas are expanding faster than urban populations. Half the increase in urban land across the world over the next 20 years will occur in Asia, with the most extensive change expected to take place in India and China Urban areas modify their local and regional climate through the urban heat island effect and by altering precipitation patterns, which together will have significant impacts on net primary production, ecosystem health, and biodiversity Urban expansion will heavily draw on natural resources, including water, on a global scale, and will often consume prime agricultural land, with knock-on effects on biodiversity and ecosystem services elsewhere Future urban expansion will often occur in areas where the capacity for formal governance is restricted, which will constrain the protection of biodiversity and management of ecosystem services

Coping With Flash Floods - Eve Grunfest 2001-01-31

Proceedings of the NATO Advanced Study Institute, Ravello, Italy, 8-17 November 1999

Multifunctional Land Use - Ülo Mander 2007-05-11

This book is a major contribution to the debate on future land development strategies, as well as helping to supporting land use decision making at all levels. Scientists from across Europe installed the Landscape Tomorrow network to prepare for upcoming challenges in research on sustainable land development. The book's interdisciplinary perspective analyses, among other things, the general principles of land use multifunctionality and reports on a variety of success stories.

Managing and Designing Landscapes for Conservation - David B. Lindenmayer 2008-04-15

The distinctive relationships between landscape change, habitat fragmentation, and biodiversity conservation are highlighted in this original and useful guide to the theory and practice of ecological landscape design. Using original, ecologically based landscape design principles, the text underscores current thinking in landscape management and conservation. It offers a blend of theoretical and practical information that is illustrated with case studies drawn from across the globe. Key insights by some of the world's leading experts in landscape ecology and conservation biology make *Managing and Designing Landscapes for Conservation* an essential volume for anyone involved in landscape management, natural resource planning, or biodiversity conservation.

Basics Landscape Architecture 02: Ecological Design - Nancy Rottle 2017-08-10

Basics Landscape Architecture 02: Ecological Design provides an overview of ecological design and planning for landscape architects. It explores the concepts and themes important to the contemporary practice of ecological design and planning in a highly accessible and richly illustrated format. Focusing primarily on urban environments, this book examines the relationships between ecological design theory and design methods. It describes and illustrates the basic structures and functions of natural and human systems through landscape ecology principles and the dynamics of landscape processes.

Landscape Perspectives - Marc Antrop 2017-12-19

Climb a mountain and experience the landscape. Try to grasp its holistic nature. Do not climb alone, but with others and share your experience. Be sure the ways of seeing the landscape will be very different. We experience the landscape with all senses as a complex, dynamic and hierarchically structured whole. The landscape is tangible out there and simultaneously a mental reality. Several perspectives are obvious because of language, culture and background. Many disciplines developed to study the landscape focussing on specific interest groups and applications. Gradually the holistic way of seeing became lost. This book explores the different perspectives on the landscape in relation to its holistic nature. We start from its multiple linguistic meanings and a comprehensive overview of the development of landscape research from its geographical origins to the wide variety of today's specialised disciplines and interest groups. Understanding the different perspectives on the landscapes and bringing them together is essential in transdisciplinary approaches where the landscape is the integrating concept.

Why Conserve Nature? - Stephen Trudgill 2022-02-24

A philosophical discussion about the meanings of nature which can give rise to our motivations to conserve nature.

Ecology of Fire-Dependent Ecosystems - Devan Allen McGranahan 2020-12-29

Ecology of Fire-Dependent Ecosystems is brimming with intriguing ecological stories of how life has evolved with and diversified within the varied fire regimes that are experienced on earth. Moreover, the book places itself as a communication between students, fire scientists, and fire fighters, and each of these groups will find some familiar ground, and some challenging aspects in this text: something which ultimately will help to bring us closer together and enrich our different approaches to understanding and managing our changing planet. -- Sally Archibald, Professor, University of the Witwatersrand, Johannesburg, South Africa Most textbooks are as dry as kindling and about as much fun to sink your teeth into. This is not that kind of textbook. Devan Allen McGranahan and Carissa L. Wonkka have taken a complex topic and somehow managed to synthesize it into a comprehensive, yet digestible form. This is a book you can read cover to cover – I know, I did it. As a result, I took an enlightening journey through the history and fundamentals of fire and its role in the natural and human world, ending with a thoughtful review of the evolving relationship between humans and wildland fire. -- Chris Helzer, Nebraska Director of Science, The Nature Conservancy, and author of The Prairie Ecologist blog *Ecology of Fire-Dependent Ecosystems: Wildland Fire Science, Policy, and Management* is intended for use in upper-level courses in fire ecology and wildland fire management and as a reference for researchers, managers, and other professionals involved with wildland fire science, practice, and policy. The book helps guide students and scientists to design and conduct robust wildland fire research projects and critically interpret and apply fire science in any management, education, or policy situation. It emphasizes variability in wildland fire as an ecological regime and provides tools for students, researchers, and managers to assess and connect fire environment and fire behaviour to fire effects. Fire has not only shaped social and ecological communities but pushed ecosystems beyond previous boundaries, yet

understanding the nature and effects of fire as an ecological disturbance has been slow, hampered by the complexity of the dynamic interactions between vegetation and climate and the fear of the destruction fire can bring. This book will help those who study, manage, and use wildland fire to develop new answers and novel solutions, based on an understanding of how fire functions in natural and social environments. It reviews literature, synthesizes concepts, and identifies research gaps and policy needs. The text also explores the interaction of fire and human culture, demonstrating how fire policy can be made adaptable to cultural and socio-ecological objectives.

Patterns and Processes in Forest Landscapes - Raffaele Laforzezza 2008-08-30

Increasing evidence suggests that the composition and spatial configuration – the pattern – of forest landscapes affect many ecological processes, including the movement and persistence of particular species, the susceptibility and spread of disturbances such as fires or pest outbreaks, and the redistribution of matter and nutrients. Understanding these issues is key to the successful management of complex, multifunctional forest landscapes, and landscape ecology, based on a foundation of island bio-geography and meta-population dynamic theories, provides the rationale to deal with this pattern-to-process interaction at different spatial and temporal scales. This carefully edited volume represents a stimulating addition to the international literature on landscape ecology and resource management. It provides key insights into some of the applicable landscape ecological theories that underlie forest management, with a specific focus on how forest management can benefit from landscape ecology, and how landscape ecology can be advanced by tackling challenging problems in forest (landscape) management. It also presents a series of case studies from Europe, Asia, North America, Africa and Australia exploring the issues of disturbance, diversity, management, and scale, and with a specific focus on how human intervention affects forest landscapes and, in turn, how landscapes influence humans and their culture. An important reference for advanced students and researchers in landscape ecology, conservation biology, forest ecology, natural resource management and ecology across multiple scales, the book will also appeal to researchers and practitioners in reserve design, ecological restoration, forest management, landscape planning and landscape architecture.

Drought Stress Tolerance in Plants, Vol 1 - Mohammad Anwar Hossain 2016-05-25

Abiotic stress adversely affects crop production worldwide, decreasing average yields for most of the crops to 50%. Among various abiotic stresses affecting agricultural production, drought stress is considered to be the main source of yield reduction around the globe. Due to an increasing world population, drought stress will lead to a serious food shortage by 2050. The situation may become worse due to predicated global climate change that may multiply the frequency and duration and severity of such abiotic stresses. Hence, there is an urgent need to improve our understanding on complex mechanisms of drought stress tolerance and to develop modern varieties that are more resilient to drought stress. Identification of the potential novel genes responsible for drought tolerance in crop plants will contribute to understanding the molecular mechanism of crop responses to drought stress. The discovery of novel genes, the analysis of their expression patterns in response to drought stress, and the determination of their potential functions in drought stress adaptation will provide the basis of effective engineering strategies to enhance crop drought stress tolerance. Although the in-depth water stress tolerance mechanisms is still unclear, it can be to some extent explained on the basis of ion homeostasis mediated by stress adaptation effectors, toxic radical scavenging, osmolyte biosynthesis, water transport, and long distance signaling response coordination. Importantly, complete elucidation of the physiological, biochemical, and molecular mechanisms for drought stress, perception, transduction, and tolerance is still a challenge to the plant biologists. The findings presented in volume 1 call attention to the physiological and biochemical modalities of drought stress that influence crop productivity, whereas volume 2 summarizes our current understanding on the molecular and genetic mechanisms of drought stress resistance in plants.

Ecology, Community and Delight - Ian Thompson 2003-09-02

This book examines the three principal value systems which influence landscape architectural practice: the aesthetic, the social and the environmental, and seeks to discover the role that the profession should be playing now and for the future. The book integrates an investigation of historical sources with contemporary research into the beliefs and values of practitioners. The book raises questions such as: should landscape architecture aspire to the status of an art form? What is the relationship between aesthetics and ecology?

Does landscape architecture have a social mission?

[Design With Nature](#) - Ian L. McHarg 1995-02-01

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Biocultural Diversity in Europe - Mauro Agnoletti 2016-02-29

The book collects a selection of the papers presented at the meeting held in the context of the Joint Programme on the Links between Biological and Cultural Diversity (JP-BiCuD). Recognizing the inextricable link between biological and cultural diversity, the United Nations Educational Scientific and Cultural Organization (UNESCO) and the Secretariat of the Convention on Biological Diversity (SCBD) joined forces, and in 2010 launched the Joint Programme on the Links between Biological and Cultural Diversity (JP-BiCuD). The first meeting for the implementation of the JP-BiCuD was held in Florence (Italy) in April 2014 and produced the UNESCO-sCBD Florence Declaration, which highlights the concept of biocultural diversity. The European rural territory is predominantly a biocultural, multi-functional landscape, providing a crucial and effective space for integration of biological and cultural diversity, suggesting the need to revise some of the current strategies for the assessment and management of biodiversity.

The Science and Practice of Landscape Stewardship - Claudia Bieling 2017-06-29

This book introduces the principles of landscape stewardship in relation to sustainability governance, applying them to a broad range of land-use systems.

Essentials of Landscape Ecology - Kimberly A. With 2019-07-01

Human activity during the Anthropocene has transformed landscapes worldwide on a scale that rivals or exceeds even the largest of natural forces. Landscape ecology has emerged as a science to investigate the interactions between natural and anthropogenic landscapes and ecological processes across a wide range of scales and systems: from the effects of habitat or resource distributions on the individual movements, gene flow, and population dynamics of plants and animals; to the human alteration of landscapes affecting the structure of biological communities and the functioning of entire ecosystems; to the sustainable management of natural resources and the ecosystem goods and services upon which society depends. This novel and comprehensive text presents the principles, theory, methods, and applications of landscape ecology in an engaging and accessible format that is supplemented by numerous examples and case studies from a variety of systems, including freshwater and marine "scapes".

Intermittent Rivers and Ephemeral Streams - Thibault Datry 2017-07-11

Intermittent Rivers and Ephemeral Streams: Ecology and Management takes an internationally broad approach, seeking to compare and contrast findings across multiple continents, climates, flow regimes, and land uses to provide a complete and integrated perspective on the ecology of these ecosystems. Coupled with this, users will find a discussion of management approaches applicable in different regions that are illustrated with relevant case studies. In a readable and technically accurate style, the book utilizes logically framed chapters authored by experts in the field, allowing managers and policymakers to readily grasp ecological concepts and their application to specific situations. Provides up-to-date reviews of research findings and management strategies using international examples Explores themes and parallels across diverse sub-disciplines in ecology and water resource management utilizing a multidisciplinary and integrative approach Reveals the relevance of this scientific understanding to managers and policymakers

Principles and Methods in Landscape Ecology - Almo Farina 2008-01-22

Landscape ecology is an integrative and multi-disciplinary science and Principles and Methods in Landscape Ecology reconciles the geological, botanical, zoological and human perspectives. In particular ,new paradigms and theories such as percolation, metapopulation, hierarchies, source-sink models have been integrated in this last edition with the recent theories on bio-complexity, information and cognitive sciences. Methods for studying landscape ecology are covered including spatial geometry models and remote sensing in order to create confidence toward techniques and approaches that require a high experience and long-time dedication. Principles and Methods in Landscape Ecology is a textbook useful to present the landscape in a multi-vision perspective for undergraduate and graduate students of biology, ecology, geography, forestry, agronomy, landscape architecture and planning. Sociology, economics, history, archaeology, anthropology, ecological psychology are some sciences that can benefit of the holistic vision offered by this textbook.

The Routledge Handbook of Urban Ecology - Ian Douglas 2020-12-15

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 recognizing 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 aims to 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, and 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.

[Landscape Simulation Modeling](#) - Robert Costanza 2006-06-02

The world consists of many complex systems, ranging from our own bodies to ecosystems to economic systems. Despite their diversity, complex systems have many structural and functional features in common that can be effectively simulated using powerful, user-friendly software. As a result, virtually anyone can explore the nature of complex systems and their dynamical behavior under a range of assumptions and conditions. This ability to model dynamic systems is already having a powerful influence on teaching and studying complexity. The books in this series will promote this revolution in "systems thinking" by integrating computational skills of numeracy and techniques of dynamic modeling into a variety of disciplines. The unifying theme across the series will be the power and simplicity of the model-building process, and all books are designed to engage the reader in developing their own models for exploration of the dynamics of systems that are of interest to them. Modeling Dynamic Systems does not endorse any particular modeling paradigm or software. Rather, the volumes in the series will emphasize simplicity of learning, expressive power, and the speed of execution as priorities that will facilitate deeper system understanding.

The Social Ecology of Border Landscapes - Anna Grichting 2017-05-02

The collection of essays in The Social Ecology of Border Landscapes defines borders and borderlands to include territorial interfaces, marginal spaces (physical, sociological and psychological) and human consciousness. From theoretical and conceptual presentations on social ecology and its agencies and representations, to case studies and concrete projects and initiatives, the contributing authors uncover a thread of contemporary thought and action on this important emerging field. The essays aim to define the territories of social ecology, to investigate how social agencies can activate ecological processes and systems, and to understand how the interactions of people and ecosystems can create new sustainable landscapes across tangible and intangible territorial rifts.

Sowing Beauty - James Hitchmough 2017-04-19

"A hopeful and expansive book for the gardener who sees a field as a canvas." —Publishers Weekly James Hitchmough is well-regarded in the design world for his exuberant, colorful, and flower-filled meadows. His signature style can be seen in prominent places like London's Olympic Park and the Botanic Garden at the University of Oxford. Using a distinct technique of sowing meadows from seed, he creates plant communities that mimic the dramatic beauty of natural meadows and offer a succession of blooms over many months—a technique that can be adapted to work in both large-scale public gardens and smaller residential gardens. Sowing Beauty shows you how to recreate Hitchmough's masterful, romantic style. You'll learn how to design and sow seed mixes that include a range of plants, both native and exotic, and how to maintain the sown spaces over time. Color photographs show not only the gorgeous finished gardens, but also all the

steps along the way.

The Planting Design Handbook - Nick Robinson 2020-09-10

Since the first edition was published in 1992, Nick Robinson's *The Planting Design Handbook* has been widely used as a definitive text on landscape architecture courses throughout the world. It remains one of the few titles written by a practicing landscape architect and educator who is also a horticulturalist and accomplished plantsman, and which deals with the application of planting design on a large scale in landscape architecture and urban design projects. *The Planting Design Handbook* is distinctive for its elegant integration of an ecological approach with an understanding of visual and spatial composition. It emphasizes the role of vegetation layers and designed plant communities in complex and diverse plant assemblages for all kinds of sites and uses. This expanded and comprehensively updated third edition still provides a complete examination of principles and practice of design for public, institutional and private landscapes. It takes account of developments in theory and practice, especially in the use of perennials, and reflects a variety of media and approaches current in landscape architecture and design. All chapters have been revised and re-written to ensure updated references and new references have been added. Many new photographs of planting and projects around the world have been included, with examples of current professional drawings to illustrate the design process. It is generously illustrated, including a colour section and the beautifully detailed line drawings of the Chinese architect and painter Jia-Hua Wu.

Tapestry Lawns - Lionel Smith 2019-05-09

Swathes of the human world are covered in ornamental grass lawns; they are the single most commonly encountered horticultural feature on the planet. Unfortunately, they are now often viewed as resource-draining green deserts due to the lack of plant and animal diversity, the need for frequent mowing and watering, and addition of lawn greening products to keep them looking at their best. It is a venerable horticultural feature that is essentially frozen in time, and with few alternatives to whet the appetite, the lawn has languished in its current grass-only format for decades. Until now. *Tapestry Lawns* are a new, practically researched and timely development of the ornamental lawn format that integrates both horticultural practice and ecological science and re-determines the potential of a lawn. Mown barely a handful of times a year and with no need for fertilisers or scarifying, *tapestry lawns* are substantially richer in their diversity of plant and animal life compared to traditional grass-only lawns and see the return of flowers and colour to a format from which they are usually purposefully excluded. *Tapestry Lawns: Freed from Grass and Full of Flowers* traces the changes in the lawn format from its origins to the modern day and offers information on how and why the *tapestry lawn* construct is now achievable. It provides guidance on how to create and maintain a *tapestry lawn* of your own and champions the potential benefits for wildlife that can follow. Features Accessible and informative to all types of readers from academic to amateur Includes a refined and tested set of useful *tapestry lawn* plants Contains step-by-step instructions for creation and management methods of grass-free lawns Illustrated in full colour If you have ever thought about mowing your lawn much less, making it much more colourful and wildlife friendly, then this book will inform and guide you to create a perfect, grass-free lawn.

Learning Landscape Ecology - Sarah E. Gergel 2002

Filled with numerous exercises this practical guide provides a real hands-on approach to learning the essential concepts and techniques of landscape ecology. The knowledge gained enables students to usefully address landscape-level ecological and management issues. A variety of approaches are presented, including: group discussion, thought problems, written exercises, and modelling. Each exercise is categorised as to whether it is for individual, small group, or whole class study.

Dynamic Geographies - Barbara Wilks 2021-01-12

Landscapes are forged by many forces and are dynamic, not static. Yet most landscape designs are designed as static; that is, they are designed not to change substantially for 20-50 years. As cities become the dominant living space for humans, allowing non-human forces to contribute to our designs as landscape architects will make for more resilient landscapes and a healthier planet. Making these dynamic landscapes with our non-human partners will require a new landscape esthetic, changing the public perception of "landscape," and changing maintenance practices. *Dynamic Geographies* seeks to address these perceptions with a series of our projects as examples--one for every of our 20 years in business. The book is divided into

three segments of overlapping geographies: visible geographies, layered geographies, and unleashing geographies.

Ecological Landscape Design and Planning - Jala Makhzoumi 2003-09-02

Based on both research and practical experience, *Ecological Landscape Design and Planning* offers a holistic methodological approach to landscape design and planning. It focuses on the scarcity of natural resources in the Mediterranean and the need to aim for long-term ecological stability and environmental sustainability. The principles of this approach, therefore, can be used as a theoretical foundation for holistic landscape research, creative ecological design and better sustainable practice development.

Hope and Grief in the Anthropocene - Lesley Head 2016-02-22

The Anthropocene is a volatile and potentially catastrophic age demanding new ways of thinking about relations between humans and the nonhuman world. This book explores how responses to environmental challenges are hampered by a grief for a pristine and certain past, rather than considering the scale of the necessary socioeconomic change for a 'future' world. Conceptualisations of human-nature relations must recognise both human power and its embeddedness within material relations. Hope is a risky and complex process of possibility that carries painful emotions; it is something to be practised rather than felt. As centralised governmental solutions regarding climate change appear insufficient, intellectual and practical resources can be derived from everyday understandings and practices. Empirical examples from rural and urban contexts and with diverse research participants - indigenous communities, climate scientists, weed managers, suburban householders - help us to consider capacity, vulnerability and hope in new ways.

Handbook of Water Sensitive Planning and Design - Robert L. France 2002-05-29

Design options and planning procedures must be critically examined to ensure that landscapes are created with sensitivity to water quality and management issues as well as overall ecological integrity. *Handbook of Water Sensitive Planning and Design* presents the history of water as a design and planning element in landscape architecture and describes new interpretations of water management. This text pushes the frontiers of standard water management in new directions, challenging readers into abandoning the comfortable safety of conducting business-as-usual within narrow disciplinary confines, and instead directing views outward to the exciting and incompletely mapped regions of true interdisciplinary water sensitive planning and design. With contributions from renowned practitioners, Part I provides seventeen chapters addressing the subject of site-specific water sensitive design and Part II presents another seventeen chapters focusing on issues relating to the water sensitive planning of riparian buffers and watersheds. In addition, Professor France has provided a "Response" to accompany each chapter, which succinctly underscores the salient features in more detail and emphasizes cross-linking to other chapters in the book. The "Overview" provides a brief road-map to navigate through the section. Finally, the discussion summaries at the end of each section elaborate on past problems, current challenges, and future directions. *Handbook of Water Sensitive Planning and Design* puts forward the very best of modern water sensitive planning and design and should be required reading for everyone involved in this dynamic and crucial field.

Small Green Roofs - Nigel Dunnett 2011-04-25

Until now, the green roof movement has been limited to large-scale, professional endeavors and public buildings. But homeowners everywhere are catching onto the benefits of a green roof—water conservation, energy savings, and storm water management. In *Small Green Roofs* authors Dunnett, Gedge, Little, and Snodgrass profile ordinary homeowners who scaled green roofs down to the domestic level. *Small Green Roofs* is the first book to focus on small-scale and domestic green roofs. More than forty profiles of small and domestic-scale projects of all shapes and sizes include green roofs on sheds, garden offices, studios, garages, houses, bicycle sheds, and other small structures, as well as several community projects. For each project, details are given for design, construction, and installation, as well as how-to tips on how the roof was planted and cared for. For readers looking for inspiration when hiring a contractor or taking the adventurous step of building their own, *Small Green Roofs* provides the knowledge and encouragement to make it possible.

Rain Gardens - Nigel Dunnett 2007

Rain gardens encompass all possible elements that can be used to capture, channel, divert and make the most of the rain and snow that fall on a property. They have the potential to make beautiful additions to our

environment. Rain Gardens is the first book on sustainable water management schemes suitable for students and professionals.

Models for Planning Wildlife Conservation in Large Landscapes - Joshua Millspaugh 2011-04-28

A single-resource volume of information on the most current and effective techniques of wildlife modeling, *Models for Planning Wildlife Conservation in Large Landscapes* is appropriate for students and researchers alike. The unique blend of conceptual, methodological, and application chapters discusses research, applications and concepts of modeling and presents new ideas and strategies for wildlife habitat models used in conservation planning. The book makes important contributions to wildlife conservation of animals in several ways: (1) it highlights historical and contemporary advancements in the development of wildlife habitat models and their implementation in conservation planning; (2) it provides practical advice for the ecologist conducting such studies; and (3) it supplies directions for future research including new strategies for successful studies. Intended to provide a recipe for successful development of wildlife habitat models and their implementation in conservation planning, the book could be used in studying wildlife habitat models, conservation planning, and management techniques. Additionally it may be a supplemental text in courses dealing with quantitative assessment of wildlife populations. Additionally, the length of the book would be ideal for graduate student seminar course. Using wildlife habitat models in conservation planning is of considerable interest to wildlife biologists. With ever tightening budgets for wildlife research and planning activities, there is a growing need to use computer methods. Use of simulation models represents the single best alternative. However, it is imperative that these techniques be described in a single source. Moreover, biologists should be made aware of alternative modeling techniques. It is also important that practical guidance be provided to biologists along with a demonstration of utility of these procedures. Currently there is little guidance in the wildlife or natural resource planning literature on how best to incorporate wildlife planning activities, particularly community-based approaches. Now is the perfect time for a synesthetic publication that clearly outlines the concepts and available methods, and illustrates them. Only single resource book of information not only on various wildlife modeling techniques, but also with practical guidance on the demonstrated utility of each based on real-world conditions. Provides concepts, methods

and applications for wildlife ecologists and others within a GIS context. Written by a team of subject-area experts

The Dynamic Landscape - Nigel Dunnett 2008

The Dynamic Landscape advances a fusion of scientific and ecological planning design philosophy that can address the need for more sustainable designed landscapes. It is a major statement on the design, implementation and management of ecologically inspired landscape vegetation.

Planting - Piet Oudolf 2016-02-16

Planting: A New Perspective, by famed landscape architects Piet Oudolf and Noel Kingsbury, characterizes a groundbreaking moment in modern horticulture; the first book to share Oudolf's original planting plans and the only book to explicitly guide gardeners through how Oudolf's iconic landscapes are made.

Introduction to Landscape Design - John L. Motloch 2000-08-25

Outstanding explorations of design concepts, principles, and processes This Second Edition of *Introduction to Landscape Design* offers even broader coverage of the environmental, human, technological, and aesthetic issues associated with landscape design than the first edition. Beginning with the way we perceive, manage, and design the landscape, it moves on to explore the forces that influence land design. An overview of landscape management, planning, and design includes a discussion of the roles and integration of the professions involved, modes of professional practice, and site scale design processes. The book explores the ecology of design and the integration of land design decisions into dynamic systems. This fully updated new edition: * Presents landscape design as a synergism of art and science * Addresses the interplay between buildings and sites * Provides insights into the breadth of people-environment relationships * Places special emphasis on our growing understanding of interrelationships between the landscape and human decisions A superb introduction for students as well as a useful reference for practicing professionals, this book is an excellent guide for anyone who wants to develop a better understanding of landscape design.

Naturalistic Planting Design - Nigel Dunnett 2019

This book offers an exciting alternative to traditional garden making. Rich in plants, sustainable and good for the environment, naturalistic gardens are also beautiful, uplifting places that resonate with the energy of the natural world - but they can be challenging to get right.