

Landscape Planning Environmental Applications

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Sustainable Landscape Construction

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

Models for Planning Wildlife Conservation in Large Landscapes

Growth in the field of landscape ecology has included the development of methods and results that can be applied to an impressive range of environmental issues. This book addresses a broad spectrum of political, theoretical and applied aspects that often arise in the design and execution of landscape studies. The concepts of geographical scale and hierarchy arising within the confines of landscape ecology are examined, and a series of techniques are presented to address problems in spatial and temporal analysis. This book will provide the reader with a current perspective on this rapidly evolving science.

Landscape Architecture Theory

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This reprint, originally published in 1983, draws attention to the important lines of thought that have emerged during the past several decades to offer a portrait of contemporary physical geography which have been drawn together in this text. It introduces conventional terms and topics of the subject and weaves them into a conceptual fabric that rests on three major themes, including the energy-balance concept; a model for understanding the forces and processes in the landscape; the stress-threshold concept; the relationship between the stress produced by forces such as wind and water and the resistance of the earth's materials; and the magnitude and frequency of change in the landscape. Chapter summaries are featured along with numerous illustrations.

Landscape Architecture and Environmental Sustainability

This volume examines the applicability of landscape urbanism theory in contemporary landscape architecture practice by bringing together ecology and architecture in the built environment. Using participatory planning of green infrastructure and application of nature-based solutions to address urban challenges, landscape urbanism seeks to reintroduce critical connections between natural and urban systems. In light of ongoing developments in landscape architecture, the goal is a paradigm shift towards a landscape that restores and rehabilitates urban ecosystems. Nine contributions examine a wide range of successful cases of designing livable and resilient cities in different geographical contexts, from the United States of America to Australia and Japan, and through several European cities in Italy, Portugal, Estonia, and Greece. While some chapters attempt to conceptualize the interconnections between cities and nature, others clearly have an empirical focus. Efforts such as the use of ornamental helophyte plants in bioretention ponds to reduce and treat stormwater runoff, the recovery of a poorly

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constructed urban waterway or participatory approaches for optimizing the location of green stormwater infrastructure and examining the environmental justice issue of equitable availability and accessibility to public open spaces make these innovations explicit. Thus, this volume contributes to the sustainable cities goal of the United Nations.

Landscape Architecture

This book has been written to present major and efficient applications in landscape ecology, as well as to propose a solid action for this category of topics. The book aims to illustrate various treatment methods of the land-use models impact on landscape ecology creation. The book is divided into three parts: Part I: Ecological interpretation of land-use act - in this part, ecosystem and land use turn out to be a significant factor in the process of creating an ecological landscape. Part II: Landscape district in applied ecological analysis - this part attempts to illustrate the best possible model of analysis integrated with landscape in practical case studies. Part III: The anthropogenic impacts on landscape creation - this part discusses the human impact on landscape creation.

Landscape Planning

The book's aim is to present recommendations for sustainable land use and management. The authors follow a hierarchical approach that is inherent in landscape structures and processes as well as in planning practice. During the last decades, landscape ecology has developed tremendously. Future research tendencies are also covered. All methodological approaches are explained with examples from different regions.

Sustainable Landscape Planning and Design

Winner of the Australian Institute of Landscape Architects (AILA) National Excellence Award (Research and Communication) 2017 Winner of the AILA VIC Excellence Award (Research and Communication) 2017 Highly Commended (Communication and Presentation) Landscape Institute Awards 2018 Landscape architecture has a pivotal role in ensuring environmental sustainability through design interventions. This book takes a broad look at strategies and completed projects to provide the reader with a strong understanding of the sustainability challenges being faced by designers today, and potential routes to addressing them. The book covers essential concepts of landscape architecture and environmental sustainability, including: - Ecology, multifunctional landscapes and sensitive intervention - Remediation, cleansing and environmental infrastructure - Social sustainability, design activism and healthy landscapes - Food systems, productive landscapes and transportation - Performance ratings, materials and life cycles Through case studies from around the world and interviews with leading landscape architects and practitioners, this book invites discussion about possible future scenarios, relevant theories and project responses in landscape environmental design. With hundreds of color images throughout the book, and additional study material in the companion website, Joshua Zeunert provides an overview of the multidimensional qualities of landscape sustainability.

Landscape Planning for the Arid Middle East

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,

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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

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

Landscape Urbanism and Green Infrastructure

Landscape Ecology Principles in Landscape Architecture and Land-Use Planning

Environmental protection is a global issue. But most of the action is happening at the local level. How can communities keep their air clean, their water pure, and their people and property safe from climate and environmental hazards? Newly updated, *The Environmental Planning Handbook* gives local governments, nonprofits, and citizens the guidance they need to create an action plan they can implement now. It's essential reading for a post-Katrina, post-Sandy world.

Ecological Networks and Greenways

Public concern about the landscape, in particular its appearance, is increasing all the time. For those charged with managing, developing or conserving a wide range of landscapes it is a major task to take visual aspects into account. *Elements of Visual Design in the Landscape* presents a vocabulary of visual design, structured in a logical and easy to follow sequence. It is profusely illustrated using both abstract and real examples taken from a wide range of international locations together with cross referencing between related principles and case studies demonstrating how the principles can be applied in practice. The visual aspects of design have often been treated as 'cosmetic' and therefore not meriting attention or purely subjective and therefore open to personal preference. Few attempts have been made to explain how we see the landscape in

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any rational and structured way, and to demonstrate how visually creative design and management can be undertaken. This book aims to fill that gap.

Greenways as Strategic Landscape Planning

This elegant Fourth Edition of Chip Sullivan's classic *Drawing the Landscape* shows how to use drawing as a path towards understanding the natural and built environment. It offers guidance for tapping into and exploring personal creative potential and helps readers master the essential principles, tools, and techniques required to prepare professional graphic representations in landscape architecture and architecture. It illustrates how to create a wide range of graphic representations using step-by-step tutorials, exercises and hundreds of samples.

Principles and Methods in Landscape Ecology

The focal main objective of the book is to constitute a meaningful linkage among research problems, geoinformation methods and corresponding applications. The research goals, related both to theoretical and practical issues, derive from multidisciplinary fields such as archaeology, history, geography, landscape planning, environment, geoinformation

Green Infrastructure

This series is dedicated to serving the growing community of scholars and practitioners concerned with the principles and applications of environmental management. Each volume is a thorough treatment of a specific topic of importance for proper management practices. A fundamental objective of these books is to help the reader discern and implement man's stewardship of our

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environment and the world's renewable resources. For we must strive to understand the relationship between man and nature, act to bring harmony to it, and nurture an environment that is both stable and productive. These objectives have often eluded us because the pursuit of other individual and societal goals has diverted us from a course of living in balance with the environment. At times, therefore, the environmental manager may have to exert restrictive control, which is usually best applied to man, not nature. Attempts to alter or harness nature have often failed or backfired, as exemplified by the results of imprudent use of herbicides, fertilizers, water, and other agents. Each book in this series will shed light on the fundamental and applied aspects of environmental management. It is hoped that each will help solve a practical and serious environmental problem.

Landscape Planning and Rural Development

An overview of issues involved in visualization technologies used in landscape and environmental planning. Covers a classification of the technology as well as a number of specialized applications across agricultural, industrial and urban planning. Editor Bishop from University of Melbourne, Vic.

Landscape Ecological Analysis

For decades, landscape architecture was driven solely by artistic sensibilities. But in these times of global change, the opportunity to reshape the world comes with a responsibility to consider how it can be resilient, fostering health and vitality for humans and nature. Landscape Architecture Theory re-examines the fundamentals of the field, offering a new approach to landscape design. Drawing on his extensive career in teaching and practice, Michael Murphy begins with an examination of influences on landscape architecture.

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He then delves into systems and procedural theory, while making connections to ecosystem and human factors, the design process, and more. He concludes by showing how a strong theoretical understanding can be applied to practical, every-day decision making and design work to create more holistic, sustainable, and creative landscapes.

Learning Landscape Ecology

Landscape Balance and Landscape Assessment

Theoretical foundations, theories, methods, and applications are essential parts of this reference book for landscape architects and other planning and design professionals. In addition, it addresses several very different subjects of study; landscape management, biodiversity, landscape restoration, landscape design, urban design, urban planning and architectural design related to theory, practice and the results are covered. Due to the varied usage of the term Planning/Landscape Planning, the intended readership for this book is a broad audience including environmentalists, landscape architects, architects, environmentalists, botanists, urban and regional planners, government agencies, non-governmental organizations, agricultural organizations, students at all levels, research organizations, international organizations and all interested parties. Landscape architecture is one of the most important of the sustainable planning and design professions. It is the design of outdoor and public spaces to achieve environmental, socio-behavioral, and/or aesthetic outcomes. It involves the systematic investigation of existing social, ecological, and geological conditions and processes in the landscape, and the design of interventions that will produce the desired outcome.

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Landscape Architecture

The Council of Europe landscape convention was adopted in Florence (Italy) on 20 October 2000 with the aim of promoting the protection, management and planning of European landscape and organising European co-operation in this area. It is the first international treaty covering all aspects of European landscape. It applies to the entire territory of the contracting parties and covers natural, rural, urban and peri-urban areas. It concerns landscapes that might be considered outstanding, commonplace or deteriorated. By taking into account landscape, culture and nature, the Council of Europe seeks to protect the quality of life and well-being of Europeans in a sustainable development perspective.

Sustainable Urbanization

Landscape ecology has emerged in the past decade as an important and useful tool for land-use planners and landscape architects. While professionals and scholars have begun to incorporate aspects of this new field into their work, there remains a need for a summary of key principles and how they might be applied in design and planning. This volume fills that need. It is a concise handbook that lists and illustrates key principles in the field, presenting specific examples of how the principles can be applied in a range of scales and diverse types of landscapes around the world. Chapters cover: patches -- size, number, and location edges and boundaries corridors and connectivity mosaics summaries of case studies from around the world

Regenerative Design Techniques

Publisher Description

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Landscape Ecology

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.

Environmental Land Use Planning and Management

The establishment of ecological networks in Europe and greenways in America has required some of the most advanced applications of the principles of landscape ecology to land use planning. This book provides a thorough overview of recent developments in this emerging field, combining theoretical concepts of landscape ecology with the actual practice of landscape planning and management. In addition to biological and physical considerations important to biodiversity protection and restoration, equal weight is given to cultural and aesthetic issues to illustrate how sympathetic, sustainable land use policies can be implemented. Examples are given for large scale areas (Estonia and Florida) as well as regional

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areas such as Milano, Chicago and the Argentinian Yungas. This invaluable book will provide a wealth of information for all those concerned with biodiversity conservation through networks and greenways and their relevance to the planning process, whether researcher, land manager or policy maker.

Landscape and Sustainable Development

This book aims to contribute to the current debate on how to integrate rural development policies and landscape planning in rural areas. It highlights the key issues at stake and the possibilities for synergies between landscape planning and policies in light of European development policies, particularly the EU's Rural Development Policy and the Common Agricultural Policy (CAP). Case studies from different rural contexts and landscapes are provided, illustrating tools and options to make the advocated integration operational. Recommendations and guidance to policy making are proposed. The case studies presented cover 1) the use of visual assessment techniques to support landscape planning in rural areas; 2) participative applications of landscape assessment techniques in peri-urban areas; 3) multi-scale approaches to landscape management in Alpine areas and 4) the application of landscape economic evaluation to foster rural development strategies.

Landscape Planning with Ecosystem Services

This book examines environmental security from the perspective of landscape sciences, identifying the forces that threaten environmental security at all levels. It stems from the last five years of the Pilot Study Project on Use of Landscape Sciences for Environmental Assessment sponsored by the NATO Committee on the Challenges of Modern Society. Readers explore concepts of

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environmental security from subjective and objective perspectives.

Landscape Ecological Applications in Man-Influenced Areas

Sustainable Landscape Construction re-evaluates the assumption that all built landscapes are environmentally sound, and offers practical, professional alternatives for more sustainable landscape construction, design, and maintenance. Packed with clear concepts and never-before-compiled resources on "green" landscape work, the book is an inspiring overview of important practices and concerns. Organized around ten key principles of sustainability, the book offers specific methods that can help accomplish those principles. Techniques and materials of landscape construction -- both alternative and conventional -- are evaluated, using criteria such as energy savings or non-toxicity and renewability in manufacture. Topics covered include: keeping healthy sites healthy constructing for and with plants working with a site's water regime reducing the impacts of paving using local, salvaged, or recycled materials estimating energy costs over time respecting the need for darkness and quiet evaluating the resource costs of conventional landscape maintenance and more More than 100 projects from around the world are described and illustrated, proving that sustainable methods are viable today -- economically, functionally, and aesthetically. The book's extensive lists of resources for further information are an invaluable tool for implementing the ideas discussed, and for adapting them to local and regional conditions. Sustainable Landscape Construction will be an important complement to basic landscape construction texts, and is a one-of-a-kind reference for professionals in landscape architecture, construction, and maintenance; students in landscape construction and related design courses; and landowners, community groups, and others concerned with the health of specific sites.

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Landscape Planning in Singapore

Provides critiques of current practices for environmental flow assessment and shows how they can be improved, using case studies. In *Environmental Flow Assessment: Methods and Applications*, four leading experts critique methods used to manage flows in regulated streams and rivers to balance environmental (instream) and out-of-stream uses of water. Intended for managers as well as practitioners, the book dissects the shortcomings of commonly used approaches, and offers practical advice for selecting and implementing better ones. The authors argue that methods for environmental flow assessment (EFA) can be defensible as well as practicable only if they squarely address uncertainty, and provide guidance for doing so. Introductory chapters describe the scientific and social reasons that EFA is hard, and provide a brief history. Because management of regulated streams starts with understanding freshwater ecosystems, *Environmental Flow Assessment: Methods and Applications* includes chapters on flow and organisms in streams. The following chapters assess standard and emerging methods, how they should be tested, and how they should (or should not) be applied. The book concludes with practical recommendations for implementing environmental flow assessment. Describes historical and recent trends in environmental flow assessment Directly addresses practical difficulties with applying a scientifically informed approach in contentious circumstances Serves as an effective introduction to the relevant literature, with many references to articles in related scientific fields Pays close attention to statistical issues such as sampling, estimation of statistical uncertainty, and model selection Includes recommendations for methods and approaches Examines how methods have been tested in the past and shows how they should be tested today and in the future *Environmental Flow Assessment: Methods and Applications* is an

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excellent book for biologists and specialists in allied fields such as engineering, ecology, fluvial geomorphology, environmental planning, landscape architecture, along with river managers and decision makers.

Selected CELA Annual Conference Papers

Two topics are brought together in this study: landscape planning objectives and the development of the arid regions of the Middle East. It reviews the literature, presents a conceptual analysis, examines case studies, suggests a comprehensive system for determining public objectives, and reports empirical research. This work should provide landscape planners and political decision-makers with some practical tools and theoretical concepts that will be helpful to the development process.

QGIS and Applications in Territorial Planning

Increasingly landscape planning requires an understanding of how the landscape functions. Marsh's book provides a unique integration of landscape architecture, forestry, ecology, and geography. This Fourth Edition incorporates the rapid expansions taking place in the field. It addresses several topics of concern in both public and private sectors such as flooding wetlands, species conservation, and groundwater. Readers will also discover how physical geography, planning, and landscape architecture relate to environmental problems and issues. * An overview of environmental topics as applied to development, land use, and environmental problems of the landscape * Focuses on landscape processes, systems, forms, and analysis * Places greater emphasis on urban environments and site-scale problems * Arms the reader with a collection of best management practices, which can be applied in the field * Presents updated case studies that examine planning and design problems

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Visualization in Landscape and Environmental Planning

"Landscape architecture plays a vital role in creating Singapore's Garden City image that has earned wide international recognition. This book helps to explain the Republic's successful implementation of environmental policies since independence to achieve its present day image. There are ten chapters in the book. The first three cover background information, the historical setting and the work of the current government. The approach is to evaluate different plans against natural, social and sensory criteria. The next six chapters are case studies, selected to show landscape planning policies in more detail. The last chapter includes a discussion of comments made about Singapore's landscapes followed by a summary. The book is illustrated by a profusion of maps, diagrams plans and photographs."--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved

Landscape Ecology

These four volumes present innovative thematic applications implemented using the open source software QGIS. These are applications that use remote sensing over continental surfaces. The volumes detail applications of remote sensing over continental surfaces, with a first one discussing applications for agriculture. A second one presents applications for forest, a third presents applications for the continental hydrology, and finally the last volume details applications for environment and risk issues.

Landscape Planning

"The new book Mapping Ecosystem Services provides a comprehensive collection of theories, methods and practical

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applications of ecosystem services (ES) mapping, for the first time bringing together valuable knowledge and techniques from leading international experts in the field." (www.eurekalert.org).

Use of Landscape Sciences for the Assessment of Environmental Security

This book, "provides practical and applied information on sustainable and regenerative principles, as well as techniques for analyzing and implementing these principles into the design of a structure of site."

The Environmental Planning Handbook for Sustainable Communities and Regions

Environmental Flow Assessment

Landscape Ecological Applications in Man-Influenced Areas not only expands the concept of landscape ecology, but also applies its principles to man-influenced ecosystems. New dimensions of landscape ecological research in a global change such as urbanization, biodiversity, and land transformation are explored in this book. The book also includes case studies concerning landscape analysis and evaluation using spatial analysis and landscape modelling for establishing sustainable management strategy in urban and agricultural landscapes.

Geoinformation Technologies for Geo-Cultural Landscapes: European Perspectives

Human well-being depends in many ways on maintaining the stock

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of natural resources which deliver the services from which human's benefit. However, these resources and flows of services are increasingly threatened by unsustainable and competing land uses. Particular threats exist to those public goods whose values are not well-represented in markets or whose deterioration will only affect future generations. As market forces alone are not sufficient, effective means for local and regional planning are needed in order to safeguard scarce natural resources, coordinate land uses and create sustainable landscape structures. This book argues that a solution to such challenges in Europe can be found by merging the landscape planning tradition with ecosystem services concepts. Landscape planning has strengths in recognition of public benefits and implementation mechanisms, while the ecosystem services approach makes the connection between the status of natural assets and human well-being more explicit. It can also provide an economic perspective, focused on individual preferences and benefits, which helps validate the acceptability of environmental planning goals. Thus linking landscape planning and ecosystem services provides a two-way benefit, creating a usable science to meet the needs of local and regional decision making. The book is structured around the Driving forces-Pressures-States-Impacts-Responses framework, providing an introduction to relevant concepts, methodologies and techniques. It presents a new, ecosystem services-informed, approach to landscape planning that constitutes both a framework and toolbox for students and practitioners to address the environmental and landscape challenges of 21st century Europe.

Elements of Visual Design in the Landscape

Environmental Land Use Planning and Management is a unique new textbook that presents a diverse, comprehensive, and coordinated approach to issues of land use planning and

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management and their impacts on the environment. It builds on recent advances in environmental science, engineering, and geospatial information technologies to provide students with the scientific foundation they need to understand both natural land systems and engineering approaches that can mitigate impacts of land use practices. While offering a base of knowledge in planning theory and natural science, its primary emphasis is on describing and explaining emerging approaches, methods, and techniques for environmental land use planning, design, and policy. The book is divided into two parts. Part I, "Environmental Land Use Management," introduces broad concepts of environmental planning and describes management approaches. Those approaches include collaborative environmental management, land conservation, environmental design, government land use management, natural hazard mitigation, and ecosystem and watershed management. Part II, "Environmental Land Use Principles and Planning Analysis," focuses on land analysis methods, such as geospatial data and geographic information systems (GIS); soils and slope analysis; assessment of stormwater quantity and quality; land use and groundwater protection; ecological assessment for vegetation, wetlands, and habitats; and integrated analytical techniques like land suitability analysis, carrying capacity studies, and environmental impact assessment. Environmental Land Use Planning and Management offers a unique interdisciplinary perspective with an emphasis on application. It is an important new text for advanced undergraduate and graduate courses in environmental planning, landscape architecture, geography, environmental studies, and natural resource management, and a valuable resource for professionals and others concerned with issues of environmental planning and land use.

Mapping Ecosystem Services

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The book deals with the development of integrative theory and concepts, the development of integrative tools and methods, training and education for integration, and the application of integrative concepts in landscape research.

From Landscape Research to Landscape Planning

This book is intended as both an introduction to the discipline for students of landscape architecture, architecture, and planning, and a source of continuing interest for more experienced environmental designers. The book offers various materials for landscape architects and other planning professionals. The book is divided into 4 parts and 17 chapters. Part I "Introduction to the Landscape Architecture Theme" is general reading on landscape architecture. Part II "Art's Replica and Landscape Architecture Model" includes three chapters. This part represents a theoretical and sensitive visual interpretation of landscape architecture. Part III "Sustainable Prototypes of a Contemporary Landscape Architecture" includes four chapters, with sustainability as a concept and guiding thought. Part IV "Landscape Architecture Around the World (Study Cases)" includes 9 chapters with many examples from different geographical practical cases.

Drawing the Landscape

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.

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