



Sarah E. Gergel
Monica G. Turner
Editors

Learning Landscape Ecology

A Practical Guide to
Concepts and Techniques

Second Edition

 Springer

Learning Landscape Ecology A Practical Guide To Concepts And Techniques

**Alexander V. Khoroshev, Kirill N.
Dyakonov**



Learning Landscape Ecology A Practical Guide To Concepts And Techniques:

Learning Landscape Ecology Sarah E. Gergel, Monica G. Turner, 2006-04-18 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

Learning Landscape Ecology Sarah E. Gergel, Monica G. Turner, 2017-03-30 This title meets a great demand for training in spatial analysis tools accessible to a wide audience Landscape ecology continues to grow as an exciting discipline with much to offer for solving pressing and emerging problems in environmental science Much of the strength of landscape ecology lies in its ability to address challenges over large areas over spatial and temporal scales at which decision making often occurs As the world tackles issues related to sustainability and global change the need for this broad perspective has only increased Furthermore spatial data and spatial analysis core methods in landscape ecology are critical for analyzing land cover changes world wide While spatial dynamics have long been fundamental to terrestrial conservation strategies land management and reserve design mapping and spatial themes are increasingly recognized as important for ecosystem management in aquatic coastal and marine systems This second edition is purposefully more applied and international in its examples approaches perspectives and contributors It includes new advances in quantifying landscape structure and connectivity such as graph theory as well as labs that incorporate the latest scientific understanding of ecosystem services resilience social ecological landscapes and even seascapes Of course as before the exercises emphasize easy to use widely available software <http://sarahgergel.net/lel/learning-landscape-ecology/>

Landscape Ecology in Theory and Practice Monica G. Turner, Robert H. Gardner, Robert V. O'Neill, 2007-05-08 An ideal text for students taking a course in landscape ecology The book has been written by very well known practitioners and pioneers in the new field of ecological analysis Landscape ecology has emerged during the past two decades as a new and exciting level of ecological study Environmental problems such as global climate change land use change habitat fragmentation and loss of biodiversity have required ecologists to expand their traditional spatial and temporal scales and the widespread availability of remote imagery geographic information systems and desk top computing has permitted the development of spatially explicit analyses In this new text book this new field of landscape ecology is given the first fully integrated treatment suitable for the student Throughout the theoretical developments modeling approaches and results and empirical data are merged together so as not to introduce barriers to the synthesis of the various approaches that constitute an effective ecological synthesis The book also emphasizes selected topic areas in which landscape ecology has made the most contributions to our understanding of ecological processes as well as identifying areas where its contributions have been limited Each chapter features questions for discussion as well as recommended reading

Experimental Landscape Ecology Yolanda F. Wiersma, 2022-04-07 This book offers the first guide to landscape ecologists on the art and science of doing experiments both observational and manipulative How do you conduct an experiment when your study subject is as big as a landscape Issues of scale spatial heterogeneity and limitations on replication may challenge scientists seeking to carry out robust experiments in landscape ecology Beginning with an overview of the history and philosophy of the scientific method and tracing the development of experimental approaches in ecology broadly the first half of the book discusses the broader issues of what makes a good experiment Individual chapters describe unique aspects of landscape ecology that present challenges to experimentation with suggestions for solutions on issues of scale and how to apply controls randomization and adequate replication in a landscape setting The second half of the book describes different kinds of landscape ecology experimental approaches including large scale manipulations experimental model landscapes mesocosms and microcosms in silico experiments novel landscapes Each chapter describes the advantages and disadvantages of each approach and identifies the types of landscape ecology concepts and questions that a research can address Examples from around the world in a myriad of different environments help to illustrate the ideas in each chapter Together with an annotated resources section this book aims to stimulate ideas and inspire creativity for graduate students and early career researchers who want to conduct better experiments in landscape ecology 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

Conservation Biology Fred Van Dyke, 2008-02-28 Fred Van Dyke s new textbook Conservation Biology Foundations Concepts Applications 2nd Edition represents a major new text for anyone interested in conservation Drawing on his experience as a conservation biologist college teacher and successful textbook author Van Dyke s organizational clarity and readable style make this book an invaluable resource for students in conservation around the globe Presenting key information and well selected examples this student friendly volume carefully integrates the science of conservation biology with its implications for ethics law policy and economics In addition to rigorous examination of the scientific theory supporting conservation biology and its applications this unique book includes a number of features which set it apart from

others These include its chapters on aquatic conservation landscape ecology and ecosystem management and its direct explanation and invitation to students on how to enter the work of conservation as a professional and personal vocation Aimed primarily at undergraduates studying courses in conservation and conservation biology this book will also be useful to practicing conservationists and natural resource managers

Applied Landscape Ecology Francisco Castro Rego, Stephen C. Bunting, Eva Kristina Strand, Paulo Godinho-Ferreira, 2019-02-04 An insightful guide to the concepts and practices of modern landscape ecology Elements of geography conservation biology soil science and other disciplines factor into landscape ecology's rich analyses of the ecological and environmental forces at play across different terrains With its unique organism oriented approach to the subject Applied Landscape Ecology considers the effects of ecological processes upon particular species and places its findings within the context of larger scale concerns Students researchers and practitioners alike will find this a rewarding and instructive read that offers practical and detailed information on the latest methods and technologies used in the field today This essential resource Takes an interdisciplinary approach to landscape ecology Examines the subject within the contexts of specific organisms Covers cutting edge technologies and methods Represents a collaboration between an international team of landscape ecology experts Comes with 25 exercises that are freely available from the book companion site Whether new to the practice or an established ecologist anyone with an interest in this exciting and developing field should have a copy of Applied Landscape Ecology at their disposal

Key Topics in Landscape Ecology Jianguo Wu, Richard J. Hobbs, 2007-03-29 Landscape ecology is a relatively new area of study which aims to understand the pattern of interaction of biological and cultural communities within a landscape This book brings together leading figures from the field to provide an up to date survey of recent advances identify key research problems and suggest a future direction for development and expansion of knowledge Providing in depth reviews of the principles and methods for understanding landscape patterns and changes the book illustrates concepts with examples of innovative applications from different parts of the world Forming a current state of the science for the science of landscape ecology this book forms an essential reference for graduate students academics professionals and practitioners in ecology environmental science natural resource management and landscape planning and design

Landscape Ecology Dean L Urban, 2024-12-01 This is methods tools textbook that covers the fundamental tasks in research and management at the landscape scale It brings together tools from a range of disciplines and presents them in a natural workflow that a practitioner can appreciate Alternative texts cover a narrower range of topics and or present the information without reference to a natural workflow The book begins with 2 fundamental applications that introduce the scope and challenges of working at the landscape scales sampling design and species distribution modeling These motivate several chapters that digress to cover the primary tools that ecologists use to work with multivariate and spatial data The book then returns to applications including site prioritization interpreting and forecasting landscape change and integrated assessment The tasks themselves follow a logical workflow of collecting and

analyzing data applying the analyses to management decisions and interpreting the outcomes of these decisions in an integrated framework This book stems from two graduate level courses in Landscape Ecology taught at the Nicholas School of the Environment at Duke University The subject has evolved over time from a concepts based overview of what landscape ecology is to a more applied practicum on how one does landscape ecology As landscape ecology has matured as a discipline its perspectives on spatial heterogeneity and scale have begun to permeate into a wide range of other fields including conservation biology ecosystem management and ecological restoration Thus this textbook will bring students from diverse backgrounds to a common level of understanding and will prepare them with the practical knowledge for a career in conservation and ecosystem management

Landscape Ecology in Asian Cultures Sun-Kee Hong, Jianguo Wu, Jae-Eun Kim, Nobukazu Nakagoshi, 2010-12-25 Cultural landscapes are a product of the interactions between humans and natural settings They are landscapes and seascapes that are shaped by human history and land use Socioeconomic processes especially but also environmental changes and natural disturbances are some of the forces that make up landscape dynamics To understand and manage such complex landscapes interdisciplinary and transdisciplinary approaches are necessary emphasizing the integration of natural and social sciences and considering multiple landscape functions The spatial patterns of Asian landscapes are strongly related to human activities and their impacts Anthropogenic patterns and processes have created numerous traditional cultural landscapes throughout the region and understanding them requires indigenous knowledge Cultural landscape ecology from a uniquely Asian perspective is explored in this book as are the management of landscapes and land use policies Human dominated landscapes with long traditions such as those described herein provide useful information for all ecologists not only in Asia to better understand the human environmental relationship and landscape sustainability

Invasive Plant Ecology i... Booth, B.D., Murphy, S.D., Swanton, C.J., **Sustainable Urbanization** Mustafa Ergen, 2016-09-28 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

The SAGE Handbook of Biogeography Andrew Millington, Mark Blumler, Udo Schickhoff, 2011-09-22 A superb resource for understanding the diversity of the modern discipline of biogeography and its history and future especially within geography departments I expect to refer to it often Professor Sally Horn University of

Tennessee As you browse through this fine book you will be struck by the diverse topics that biogeographers investigate and the many research methods they use Biogeography is interdisciplinary and a commonly voiced concern is that one biogeographer may not readily understand another's research findings A handbook like this is important for synthesising situating explaining and evaluating a large literature and pointing the reader to informative publications Geographical Research A valuable contribution in both a research and teaching context If you are biologically trained it provides an extensive look into the geographical tradition of biogeography covering some topics that may be less familiar to those with an evolution ecology background Alternatively if you are a geography student researcher or lecturer it will provide a useful reference and will be invaluable to the non biogeographer who suddenly has the teaching of an introductory biogeography course thrust upon them Adam C Algar *Frontiers of Biogeography* The SAGE Handbook of Biogeography is a manual for scoping the past present and future of biogeography that enable readers to consider where relevant how similar biogeographical issues are tackled by researchers in different schools In line with the concept of all SAGE Handbooks this is a retrospective and prospective overview of biogeography that will Consider the main areas of biogeography researched by geographers Detail a global perspective by incorporating the work of different schools of biogeographers Explore the divergent evolution of biogeography as a discipline and consider how this diversity can be harnessed Examine the interdisciplinary debates that biogeographers are contributing to within geography and the biological sciences Aimed at an international audience of research students academics researchers and practitioners in biogeography the text will attract interest from environmental scientists ecologists biologists and geographers alike [Ecological Modeling for Resource Management](#) Virginia H. Dale, 2006-04-18 This book will serve as a readable introduction to ecological modeling for people involved in resource management and will also review models for specific applications of interest to more experienced modelers Successful uses of ecological models as well as discussions of important issues in modeling are addressed The authors of this volume hope to close the gap between the state of the art in ecological modeling and the state of the practice in the use of models in management decision making [Ecology of Hierarchical Landscapes](#) Jiquan Chen, 2006 The idea for this book grew out of 1 the realisation that development of the theory of landscape ecology has now reached the point where rigorous field work is required to validate models test assumptions and ideas of scaling theory and refine our understanding of landscape features and their delineation 2 the relative scarcity of compilations that have examined the role of field research or interdisciplinary management applications in advancing the science of landscape ecology and 3 the increasing amount of information coming out of the Chequamegon Integrated Field Project CIFP on relevant topics This book synthesises the experiences and lessons learned from the CIFP project and other relevant landscape studies in an attempt to demonstrate the utility of field studies and emerging technology to the advancement of the science This book is organised to synthesise and update knowledge on research topics mentioned previously with an emphasis on ecological consequences i e

implications for ecological function of the approach to and understanding of these topics across levels of the ecological hierarchy

The Routledge Companion to Landscape Studies Peter Howard, Ian Thompson, Emma Waterton, Mick Atha, 2018-09-03 This new edition of The Routledge Companion to Landscape Studies contains an updated and expanded selection of original chapters which explore research directions in an array of disciplines sharing a concern for landscape a term which has many uses and meanings It features 33 revised and or updated chapters and 14 entirely new chapters on topics such as the Anthropocene Indigenous landscapes challenging landscape Eurocentrism's photography and green infrastructure planning The volume is divided into four parts Experiencing landscape Landscape heritage and culture Landscape society and justice and Design and planning for landscape Collectively the book provides a critical review of the various fields related to the study of landscapes including the future development of conceptual and theoretical approaches as well as current empirical knowledge and understanding It encourages dialogue across disciplinary barriers and between academics and practitioners and reflects upon the implications of research findings for local national and international policy in relation to landscape The Companion provides a comprehensive and up to date guide to current thinking about landscapes and serves as an invaluable point of reference for scholars researchers and graduate students alike

The Routledge Handbook of Research Methods for Social-Ecological Systems Reinette Biggs, Alta de Vos, Rika Preiser, Hayley Clements, Kristine Maciejewski, Maja Schlüter, 2021-07-29 The Routledge Handbook of Research Methods for Social Ecological Systems provides a synthetic guide to the range of methods that can be employed in social ecological systems SES research The book is primarily targeted at graduate students lecturers and researchers working on SES and has been written in a style that is accessible to readers entering the field from a variety of different disciplinary backgrounds Each chapter discusses the types of SES questions to which the particular methods are suited and the potential resources and skills required for their implementation and provides practical examples of the application of the methods In addition the book contains a conceptual and practical introduction to SES research a discussion of key gaps and frontiers in SES research methods and a glossary of key terms in SES research Contributions from 97 different authors situated at SES research hubs in 16 countries around the world including South Africa Sweden Germany and Australia bring a wealth of expertise and experience to this book The first book to provide a guide and introduction specifically focused on methods for studying SES this book will be of great interest to students and scholars of sustainability science environmental management global environmental change studies and environmental governance The book will also be of interest to upper level undergraduates and professionals working at the science policy interface in the environmental arena

Agents and Implications of Landscape Pattern Dean L Urban, 2023-10-11 This is an ecology textbook focused on key principles that underpin research and management at the landscape scale It covers 1 agents of pattern the physical template biotic processes and disturbance regimes 2 scale and pattern why scale matters how to scale with data and inferences using landscape pattern metrics and 3

implications of pattern for metapopulations communities and biodiversity and ecosystem processes The last two chapters address emerging issues urban landscapes and adapting to climate change This book stems from two graduate level courses in Landscape Ecology taught at the Nicholas School of the Environment at Duke University The subject has evolved over time from a concepts based overview of what landscape ecology is to a more applied practicum on how one does landscape ecology As landscape ecology has matured as a discipline its perspectives on spatial heterogeneity and scale have begun to permeate into a wide range of other fields including conservation biology ecosystem management and ecological restoration Thus this textbook will bring students from diverse backgrounds to a common level of understanding and will prepare them with the practical knowledge for a career in conservation and ecosystem management

Landscape Patterns in a Range of Spatio-Temporal Scales Alexander V. Khoroshev, Kirill N. Dyakonov, 2020-03-23 This book presents the polycentric and multiscale view of landscape which has been developed in Russia within a framework of physical geography since the early twentieth century The authors develop the ideas of hierarchical organization of a landscape and strong relationships between abiotic and biotic components with equal attention to both vertical fluxes and lateral transfer Three dimensional representation of landscape involves strong emphasis on abiotic drivers of pattern development including relief geological structures and runoff The objective of this book is to demonstrate the multiplicity of models and multiscale approach to description and explanation of landscape pattern functioning dynamics and evolution The contributions deal with various hierarchical levels ranging from within unit interior variability to between units interaction at landscape level as well as regional and supra regional zonal patterns Divided into 8 clear parts the 28 chapters treat spatial pattern in one of the following aspects indicator of actual matter and energy flows control over actual processes including disturbance expansion as well as determinant of future development indicator of genesis and prerequisite for future trends driver for short term dynamics of processes response to climatic and anthropogenic influences factor of settlement network and land use adaptation at various historical epochs framework for actual land use spatial arrangement This contributed volume is written for researchers and students in the field of landscape ecology physical geography environmental impact assessment and ecological planning

Ecology of Fragmented Landscapes Sharon K. Collinge, 2009-06 Ask airline passengers what they see as they gaze out the window and they will describe a fragmented landscape a patchwork of desert woodlands farmlands and developed neighborhoods Once contiguous forests are now subdivided tallgrass prairies that extended for thousands of miles are now crisscrossed by highways and byways Whether the result of naturally occurring environmental changes or the product of seemingly unchecked human development fractured lands significantly impact the planet's biological diversity In *Ecology of Fragmented Landscapes* Sharon K Collinge defines fragmentation explains its various causes and suggests ways that we can put our lands back together Researchers have been studying the ecological effects of dismantling nature for decades In this book Collinge evaluates this body of research expertly synthesizing all that is known about the ecology of

fragmented landscapes Expanding on the traditional coverage of this topic Collinge also discusses disease ecology restoration conservation and planning Not since Richard T T Forman s classic Land Mosaics has there been a more comprehensive examination of landscape fragmentation Ecology of Fragmented Landscapes is critical reading for ecologists conservation biologists and students alike

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