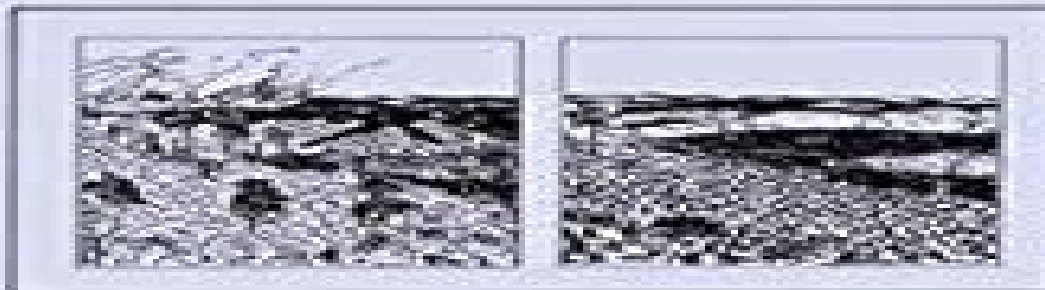


Mosaic Landscapes and Ecological Processes



**Edited by Lennart Hansson,
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Mosaic Landscapes And Ecological Processes

L. Hansson, Lenore Fahrig, G. Merriam



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A. Wiens, 2007 The editors begin with articles that illuminate the discipline's diverse scientific foundations such as L

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

Resilience in Ecology and Urban Design S.T.A. Pickett, M.L. Cadenasso, Brian McGrath, 2013-01-13 The contributors to this volume propose strategies of urgent and vital importance that aim to make today's urban environments more resilient Resilience the ability of complex systems to adapt to changing conditions is a key frontier in ecological research and is especially relevant in creative urban design as urban areas exemplify complex systems With something approaching half of the world's population now residing in coastal urban zones many of which are vulnerable both to floods originating inland and rising sea levels making urban areas more robust in the face of environmental threats must be a policy ambition of the highest priority The complexity of urban areas results from their spatial heterogeneity their intertwined material and energy fluxes and the integration of social and natural processes All of these features can be altered by intentional planning and design The complex integrated suite of urban structures and processes together affect the adaptive resilience of urban systems but also presupposes that planners can intervene in positive ways As examples accumulate of linkage between sustainability and building landscape design such as the Shanghai Chemical Industrial Park and Toronto's Lower Don River area this book unites the ideas data and insights of ecologists and related scientists with those of urban designers It aims to integrate a formerly atomized dialog to help both disciplines promote urban resilience

Landscape Ecology Francoise Burel, 2003-01-05 Part I Introduction Definition of a Discipline Emergence of Landscape Ecology in the History of Ecology Recognition of Heterogeneity in Ecological Systems Taking Human Activities into Account in Ecological Systems Explicit Accounting for Space and Time Landscape Ecology is based on Scientific Theories Linked to Ecology and Related Discipline

Landscape Ecology: A Widening Foundation Vittorio Ingegnoli, 2013-04-17 Exactly 25 years ago on a warm autumn afternoon a young ecologist

walked slowly through a tiny oak wood and perched on a log to reflect He had measured and seemingly knew all the species present trees mosses mushrooms birds and more The research based on this and other woods in the landscape was the first rigorous test to see if island biogeographic theory was of use in heterogeneous land Unexpectedly an interior to edge model was found to be more useful But on this beautiful sunny day he gazed out through the trees at the surrounding bean and maize fields Suddenly a terrible thought hit him The land surrounding the other woods differed slightly from this scene Here there were two bean fields plus a maize field meadow hedgerow and farm road but the other comparably sized woods studied had different mixes of these land uses Wouldn't the surroundings seriously affect the species in the woods Had he done bad science an awful feeling for a scientist Immediately he went to all his ecology books searching for discussions of patchiness mosaic pattern interactions between ecosystems and the like Nothing Surprise was a new ingredient to ponder Then for 3 months every spare moment found him in the university library digging deeper collecting tidbits and clues A new feeling took over challenge and excitement The spatial arrangement of ecosystems and land uses is important ecologically A giant but approachable scholarly frontier

How Landscapes Change Gay A. Bradshaw, Pablo A. Marquet, 2013-03-09 North and South America share similar human and ecological histories and increasingly economic and social linkages As such issues of ecosystem functions and disruptions form a common thread among these cultures This volume synthesizes the perspectives of several disciplines such as ecology anthropology economy and conservation biology The chief goal is to gain an understanding of how human and ecological processes interact to affect ecosystem functions and species in the Americas Throughout the text the emphasis is placed on habitat fragmentation At the same time the book provides an overview of current theory methods and approaches used in the analysis of ecosystem disruptions and fragmentation

Ecosystem Function in Heterogeneous Landscapes Gary M. Lovett, Clive G. Jones, Monica G. Turner, Kathleen C. Weathers, 2007-12-21 Among the most difficult problems in the life sciences is the challenge to understand the details of how ecosystems watersheds landscapes function Yet the welfare of all life not just the human species depends upon the successful functioning of diverse and complicated ecosystems each with various dimensions and compositions Central to this working is the dominance and to a major extent control of ecosystems by organisms which means that these systems are constantly changing as the component organisms change and evolve Such changes increase the challenge to understand the functioning of ecosystems and landscapes Moreover understanding the interactions among the myriad components of these systems is mind boggling as there are scores of biotic probably many thousands of species when the microbial components are fully enumerated through genomics and countless abiotic ions molecules and compounds entities all simultaneously interacting and responding to diverse external factors to produce functional or dysfunctional environments for life This book focuses on the problems of connectedness and ecosystem functioning It is difficult enough to understand how an ecosystem functions when it is considered in isolation but all ecosystems are open and connected to everything else Clearly the inputs to any ecosystem

are the outputs from others and vice versa and as such the axes represent major if not critical points for managing or changing the overall functioning of an ecosystem or landscape A major challenge is to find appropriate conceptual frameworks to address these complicated problems

Landscape Ecology of Small Mammals Gary W. Barrett, John D. Peles, 2013-03-19 Small mammals can be regarded as excellent subjects to test suppositions about population growth migration and reproduction and in particular on how the complex physical structure of the environment affects the ecology of populations and communities In other words these small mammal studies can help formulate landscape ecological principles This book summarizes a great deal of experimental work on the spatial ecology of small mammals The field has entered an exciting stage with several new techniques such as GIS and systems modeling becoming available Leading contributors describe and analyze the most well known case studies and provide new insights into how landscape patterns and processes have had an impact on small mammals and how small mammals have in turn affected landscape structure and composition

Integrating Landscape Ecology Into Natural Resource Management Jianguo Liu, William W. Taylor, 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

Managing and Designing Landscapes for Conservation David B. Lindenmayer, Richard J. Hobbs, 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

Principles and Methods in Landscape Ecology A. Farina, 2013-04-17 Currently considered a bridge between basic and Two possibilities exist to expand landscape ecology landscape ecology occupies an ecology one consists of developing new research and important new niche in ecology representing a new the other in developing a good educational framework in the galaxy

of the ecological sciences work Both are important and not in conflict In this However the broad spectrum of conceptual and spirit I have prepared this book with the aim of methodological approaches has created a non summarizing the best theories concepts principles focused science strongly influenced by the more and methods in landscape ecology It is an attempt dominant disciplines such as landscape planning to reinforce the ecological research perspective to and restoration forest management landscape consolidate principles and methods validate proce architecture etc dures and reconcile different positions including The uncertain position of landscape ecology the geobotanic animal and human perspectives among the ecological disciplines is in contradiction The concept is very simple I have no ambition with the general recognition that landscape is a spa to present new ideas and theories I have worked to tial dimension in which important ecological create a tool mainly for classroom use but also processes occur and landscape is becoming very appealing to a broad range of scientists and practi popular in many ecology related fields from plant tioners dealing with landscape ecology and its disease to animal behaviour problems

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

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

Ecosystems of Disturbed Ground L.R. Walker, 1999-12-17 As the human population inexorably grows its cumulative impact on the Earth s resources is hard to ignore The ability of the Earth to support more humans is

dependent on the ability of humans to manage natural resources wisely Because disturbance alters resource levels effective management requires understanding of the ecology of disturbance This book is the first to take a global approach to the description of both natural and anthropogenic disturbance regimes that physically impact the ground Natural disturbances such as erosion volcanoes wind herbivory flooding and drought plus anthropogenic disturbances such as forestry grazing mining urbanization and military actions are considered Both disturbance impacts and the biotic recovery are addressed as well as the interactions of different types of disturbance Other chapters cover processes that are important to the understanding of disturbance of all types including soil processes nutrient cycles primary productivity succession animal behaviour and competition Humans react to disturbances by avoiding exacerbating or restoring them or by passing environmental legislation All of these issues are covered in this book Managers need better predictive models and robust data collections that help determine both site specific and generalized responses to disturbance Multiple disturbances have a complex effect on both physical and biotic processes as they interact This book provides a wealth of detail about the process of disturbance and recovery as well as a synthesis of the current state of knowledge about disturbance theory with extensive documentation

Landscape Approaches in Mammalian Ecology and Conservation William Zander Lidicker, 1995 This book explores the latest ideas about landscapes as they apply to mammalian ecology and conservation The Contributors examine mammalian field studies and experimental model systems to landscape ecology and then present data on the use of such experimental protocols With its international perspective and incisive coverage this volume will be an essential resource for anyone concerned with mammalian and landscape ecology

Encyclopedia of Deserts Michael A. Mares, 2017-01-19 Encyclopedia of Deserts represents a milestone it is the first comprehensive reference to the first comprehensive reference to deserts and semideserts of the world Approximately seven hundred entries treat subjects ranging from desert survival to the way deserts are formed Topics include biology birds mammals reptiles amphibians fishes invertebrates plants bacteria physiology evolution geography climatology geology hydrology anthropology and history The thirty seven contributors including volume editor Michael A Mares have had extensive careers in deserts research encompassing all of the world's arid and semiarid regions The Encyclopedia opens with a subject list by topic an organizational guide that helps the reader grasp interrelationships and complexities in desert systems Each entry concludes with cross references to other entries in the volume inviting the reader to embark on a personal expedition into fascinating previously unknown terrain In addition a list of important readings facilitates in depth study of each topic An exhaustive index permits quick access to places topics and taxonomic listings of all plants and animals discussed More than one hundred photographs drawings and maps enhance our appreciation of the remarkable life landforms history and challenges of the world's arid land

Applying Landscape Ecology in Biological Conservation Kevin Gutzwiller, 2011-06-27 Landscape ecology and conservation biology are rapidly developing disciplines and a current synthesis of principles and applications in these two fields is needed under one cover Many

managers are not applying principles of landscape ecology in efforts to conserve biota yet the loss of biological diversity could be reduced if broad scale processes and patterns were consistently considered in management and conservation decisions Bringing together insights from leaders in landscape ecology and conservation biology this book explains how our knowledge about landscape ecology can help us understand manage and maintain biodiversity Beyond explaining pertinent concepts of landscape ecology and biological conservation and describing examples of their use in management research and planning this book also distills principles for applying landscape ecology in conservation identifies gaps in current knowledge and provides research approaches to fill those voids The book is divided into five parts the first part introduces the book and discusses what landscape ecology is and why it is important to biological conservation The second deals with multiple scales connectivity and organism movement The third part discusses landscape change and how this affects biodiversity and the fourth part covers conservation planning The final part presents a synthesis that identifies overarching principles pervasive constraints and realistic prospects for applying landscape ecology in biological conservation Conservationists land use planners and ecologists will find this book to be an essential resource Foreword by Richard T T Forman

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