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Ecology Cain

This third, thoroughly updated edition of a well received book, presents the most complete collection of theories, paradigms and methods utilized by the

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landscape sciences. With the introduction of new ecosemiotic concepts and innovative managing procedures, it offers a broad list of ecological, ecosemiotical and cultural tools to investigate, interpret and

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manage the environmental complexity according to a species-specific individual-based approach. Readers will discover the importance of a landscape perspective to create strategic bridges between science and

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humanities favored by the holistic sight of sensorial (visual, acoustic, olfactory, tactile, and thermal) “scapes”. Distributed in 10 chapters, the content covers many aspects of the landscape sciences ranging from the

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description of fundamental theories, principles and models originated by ecological approaches like source-sink models, island biogeography, hierarchical theory and scale. The ecosemiotical approaches

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*like the eco-field model, the
ecoscape paradigm, and the
general theory of resources are
widely described and discussed.
A cultural approach to landscape
is utilized to focus on the
heritage values of territories and*

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their environmental identity. This book, written in an accessible and didactic style, is particularly dedicated to undergraduate and graduate students but also scholars in ecology, agroforestry, urban planning, nature design,

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conservation and remediation. Land practitioners, farmers and policymakers can use this book as an authoritative guide to better understand the function and role of environmental systems according to a social-

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economic integrated perspective. This second edition provides authoritative guidance on research methodology for plant population ecology. Practical advice is provided to assist senior undergraduates and post-

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graduate students, and all researchers, design their own field and greenhouse experiments and establish a research programme in plant population ecology.

Ecology Sinauer Associates

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Through a global and interdisciplinary lens, this book discusses, analyzes and summarizes the novel conservation approach of rewilding. The volume introduces key rewilding definitions and

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initiatives, highlighting their similarities and differences. It reviews matches and mismatches between the current state of ecological knowledge and the stated aims of rewilding projects, and discusses the role

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of human action in rewilding initiatives. Collating current scholarship, the book also considers the merits and dangers of rewilding approaches, as well as the economic and socio-political realities of using

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rewilding as a conservation tool. Its interdisciplinary nature will appeal to a broad range of readers, from primary ecologists and conservation biologists to land managers, policy makers and conservation practitioners in

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NGOs and government departments. Written for a scientifically literate readership of academics, researchers, students, and managers, the book also acts as a key resource for advanced undergraduate and

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graduate courses.

A Guide For Ecologists

Ecology, Environmental Science

& Conservation

Spatial Analysis

Ecology and Evolutionary

Biology of Clonal Plants

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*Design, Analysis, and
Application*

***The new Fourth Edition of
Ecology maintains its
focus on providing an
easy-to-read and well-
organized text for***

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instructors and students to explore the basics of ecology. This edition also continues with an increasing emphasis on enhancing student quantitative and problem

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solving skills. The authors also revised and strengthened key pedagogical features of Ecology, examples of which are called out from the sample pages shown.

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A new Hone Your Problem Solving Skills series has been added to the set of review questions at the end of each chapter. The questions expose students to hypothetical

situations or existing data sets, and allow them to work through data analysis and interpretation to better understand ecological concepts. Additional

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Analyzing Data exercises have also been added to the existing collection on the Companion Website. These exercises enable students to enhance their essential skills sets, such

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***as performing
calculations, making
graphs, designing
experiments, and
interpreting results.
An essential guide for
graduates, researchers***

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and professionals to spatial analysis and the fast-growing range of methods available. Encyclopedia of Ecology, Second Edition continues the acclaimed work of the

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***previous edition
published in 2008. It
covers all scales of
biological organization,
from organisms, to
populations, to
communities and***

ecosystems. Laboratory, field, simulation modelling, and theoretical approaches are presented to show how living systems sustain structure and

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function in space and time. New areas of focus include micro- and macro scales, molecular and genetic ecology, and global ecology (e.g., climate change, earth

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transformations, ecosystem services, and the food-water-energy nexus) are included. In addition, new, international experts in ecology contribute on a

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variety of topics. Offers the most broad-ranging and comprehensive resource available in the field of ecology Provides foundational content and suggests further reading

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Incorporates the expertise of over 500 outstanding investigators in the field of ecology, including top young scientists with both research and teaching

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***experience Includes
multimedia resources,
such as an Interactive
Map Viewer and links to a
CSDMS (Community
Surface Dynamics
Modeling System), an***

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***open-source platform for
modelers to share and
link models dealing with
earth system processes
This is the first
introductory anthology
on the philosophy of***

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ecology edited by an ecologist and a philosopher. It illustrates the range of philosophical approaches available to ecologists and provides a basis for understanding

the thinking on which many of today's environmental ideas are founded. Collectively, these seminal readings make a powerful statement on the value of

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ecological knowledge and thinking in alleviating the many problems of modern industrial civilization. Issues covered include: the challenges of defining

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scientific ecology, tracing its genealogy, and distinguishing the science from various forms of "ecological-like" thinking the ontology of ecological entities and

***processes selected
concepts of community,
stability, diversity, and
niche the methodology of
ecology (rationalism and
empiricism, reductionism
and holism) the***

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***significance of
evolutionary law for
ecological science
Fifty Years of Invasion
Ecology
Functional Plant Ecology
Ecology and Agriculture***

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***in the Twentieth Century
Ecological Genetics and
Evolution
An Agenda for the Second
Millennium***

Considers S. 2282, to
authorize the Interior

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Dept to research and describe U.S. natural environmental systems for improved natural resource management and to establish a central clearinghouse for

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Government information
on ecological problems.
Following in the
footsteps of the
successful first
edition, Functional
Plant Ecology, Second

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Edition remains the most authoritative resource in this multidisciplinary field. Extensively revised and updated, this book investigates plant

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structure and behavior across the ecological spectrum. It features the ecology and evolution of plant crowns and a

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One of the privileges of appointment to a Chair at another University is that it gives one the right to talk to many

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distinguished people about their work and ideas. E. B. Ford was known to me before I came to Oxford as the author of a book on butterflies and as

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somewhat of an eccentric, but I was quite unprepared for the welcome he gave me into the Department of Zoology and for the enormous interest of the

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subject which he gradually revealed to me. My contact with the Genetics Laboratory was made easier by one of the first things I had to do. Within a few

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weeks of my arrival, it came to light that a new building for another department was to be erected on a piece of land, known to us as 'Henry's weed garden'

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but generally regarded as being derelict. Even my, at that time, elementary, knowledge of ecological genetics made it easy to realize that the population of

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caterpillars that had been under continuous observation there for eleven years put it in a rather special category of wilderness; although I did not succeed in

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saving it, I was able to persuade the university to substitute another experimental plot and this may have helped the geneticists to appreciate that the new

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professor was not only interested in electrical apparatus.

Hearings

Contemporary Principles and Practices

The Biology of

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Terrestrial Molluscs

33rd Symposium of the

British Ecological

Society

Ecology 2e + a Primer of

Ecology 4e

Wildlife Management and

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Conservation presents a clear overview of the management and conservation of animals, their habitats, and how people influence both. The relationship among

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these three components of wildlife management is explained in chapters written by leading experts and is designed to prepare wildlife students for careers in

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*which they will be
charged with maintaining
healthy animal
populations; finding
ways to restore depleted
populations while
reducing overabundant,*

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introduced, or pest species; and managing relationships among various human stakeholders. Topics covered in this book include

- The

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*definitions of wildlife
and management • Human
dimensions of wildlife
management • Animal
behavior • Predator-prey
relationships •
Structured decision*

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*making • Issues of scale
in wildlife management •
Wildlife health •
Historical context of
wildlife management and
conservation • Hunting
and trapping • Nongame*

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*species • Nutrition
ecology • Water
management • Climate
change • Conservation
planning*

*The environmental
sciences are undergoing*

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*a revolution in the use
of models and data.*

*Facing ecological data
sets of unprecedented
size and complexity,
environmental scientists
are struggling to*

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understand and exploit powerful new statistical tools for making sense of ecological processes. In Models for Ecological Data, James Clark introduces ecologists to

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these modern methods in modeling and computation. Assuming only basic courses in calculus and statistics, the text introduces readers to basic maximum

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likelihood and then works up to more advanced topics in Bayesian modeling and computation. Clark covers both classical statistical approaches

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*and powerful new
computational tools and
describes how complexity
can motivate a shift
from classical to
Bayesian methods.*

Through an available lab

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manual, the book introduces readers to the practical work of data modeling and computation in the language R. Based on a successful course at

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*Duke University and
National Science
Foundation-funded
institutes on
hierarchical modeling,
Models for Ecological
Data will enable*

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ecologists and other environmental scientists to develop useful models that make sense of ecological data.

Consistent treatment from classical to modern

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*Bayes Underlying
distribution theory to
algorithm development
Many examples and
applications Does not
assume statistical
background Extensive*

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*supporting appendixes
Lab manual in R is
available separately
Ecological Genetics
addresses the
fundamental problems of
which of the many*

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molecular markers should be used and how the resulting data should be analysed in clear, accessible language, suitable for upper-level undergraduates through

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to research-level professionals. A very accessible straightforward text to deal with this difficult topic - applying modern molecular techniques to

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*ecological processes.
Written by active
researchers and teachers
within the field. There
will be an accompanying
web site managed by the
authors, comprising of*

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worked examples, test data sets and hyperlinks to relevant web pages.

Gastropods on land: phylogeny, diversity and adaptive morphology;

Body wall: form and

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function; Sensory organs and the nervous system; Radular structure and function; Structure and function of the digestive system in Stylommatophora; Food

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*and feeding behaviour;
Haemolymph: blood cell
morphology and function;
Structure and
functioning of the
reproductive system;
Regulation of growth and*

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*reproduction;
Spermatogenesis and
oogenesis; Population
and conservation
genetics; Life history
strategies; Behavioural
ecology: on doing the*

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*right thing, in the
right place at the right
time; Soil biology and
ecotoxicology.*

*History of Landscape
Ecology in the United
States*

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*Wildlife Management and
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The Philosophy of
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Environment, population, interactions, communities, ecosystem. The groundbreaking Encyclopedia of Ecology provides an authoritative and

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entries, structured to
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from basic to applied*

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upon publication
Over the years, the
scope of our scientific
understanding and*

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*technical skills in
ecology and
environmental science
have widened
significantly, with
increasingly greater
emphasis on societal*

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issues. In this book, an attempt has been made to give basic concepts of ecology, environmental science and various aspects of natural resource conservation.

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The topics covered primarily deal with environmental factors affecting organisms, adaptations, biogeography, ecology of species populations and

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*species interactions,
biotic communities and
ecosystems,
environmental pollution,
stresses caused by
toxics, global
environmental change,*

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*exotic species invasion,
conservation of
biodiversity, ecological
restoration, impact
assessment, application
of remote sensing and
geographical information*

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system for analysis and management of natural resources, and approaches of ecological economics. The main issues have been discussed within the

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*framework of
sustainability,
considering humans as
part of ecosystems, and
recognising that
sustainable development
requires integration of*

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ecology with social sciences for policy formulation and implementation.

Spontaneous self-cloning or clonality is a widespread phenomenon in

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the plant kingdom, and has a wide array of ecological and evolutionary implications. This volume is the outcome of an international

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workshop on clonal plant biology aimed at illustrating current progress and recent developments in the scientific study of clonality in plants. The

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first section of this book includes a collection of original research articles which demonstrate the wide variety of approaches and scientific

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*challenges linked to
clonality in plants. The
topics covered in this
section include
ecological and
evolutionary
implications of sexual*

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*versus asexual
propagation, including
life-history evolution
and sex-ratio dynamics,
the importance of
internal resource
transport and*

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*remobilization of
storage products for the
invasiveness and
competitiveness of
clonal plants, a survey
of clonal growth forms
in grassland*

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communities, and studies on the interactions between clonal plants and animals and fungi. The approaches used range from experimental studies on a broad

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variety of systems to mathematical modeling of clonal growth and its consequences. The second part features discussion and review papers on a diverse array of

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subjects, ranging from developmental considerations of clonality, principles of selection and evolution in clonal plants, a survey of clonality in

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algae, to potential implications of clonality for plant mating, and beyond. This part of the volume aims at presenting novel ideas and hypotheses,

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and at summarizing existing knowledge in previously under-researched areas, thereby providing directions for future research initiatives.

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This book captures ongoing cutting-edge research in the field of clonal plant ecology and evolution. It is directed to anyone from the undergraduate to

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specialist level who is interested in the biology of the intriguing phenomenon of asexual propagation in plants.

Principles and Methods

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in Landscape Ecology
Encyclopedia of Ecology
Genes in Ecology
Advances in Ecology and
Environmental Sciences
Models for Ecological
Data

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"This fifth edition of Ecology, written for undergraduate students taking their first course in ecology, provides comprehensive yet concise coverage of fundamental ecological principles, with attention to relevant issues including climate

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change, spread of invasive species, and pollution. The text utilizes a variety of learning tools-such as Case Studies, Connections in Nature, Climate Change Connection vignettes, Ecological Toolkit boxes, and new Learning Objectives-to

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engage students, highlight critical information, and make real-world connections to the source material. Ecology 5e also expands upon its previous successful editions with increased coverage of marine ecology, microbes and microbial

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examples, health connections, and regional examples of concepts and case studies. The text is complemented by an enhanced ebook and an updated, user-friendly digital suite full of interactive activities, quizzes,

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videos, and layered figures to reinforce key concepts"-- Geneticists and ecologists confront the implications of the others' discipline for their own work. This book provides the first coherent examination of the vast

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literature on the diversity of organisms that constitute the natural enemies of terrestrial molluscs. In a series of review chapters, it provides an authoritative synthesis of current research on predators, parasites

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and pathogens and how they might be used to control mollusc pests. Now that so many ecosystems face rapid and major environmental change, the ability of species to respond to these changes by dispersing or moving between

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different patches of habitat can be crucial to ensuring their survival. Understanding dispersal has become key to understanding how populations may persist. Dispersal Ecology and Evolution provides a timely and wide-ranging overview

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of the fast expanding field of dispersal ecology, incorporating the very latest research. The causes, mechanisms, and consequences of dispersal at the individual, population, species, and community levels are considered.

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Perspectives and insights are offered from the fields of evolution, behavioural ecology, conservation biology, and genetics. Throughout the book theoretical approaches are combined with empirical data, and care has been taken to include

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examples from as wide a range of species as possible - both plant and animal.

From Science to Synthesis

Landscape Ecology in Theory and Practice

Studyguide for Ecology by Cain,

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Dispersal Ecology and Evolution

*In this collection of essays,
some of the leading
ecologists and philosophers
discuss the foundations of*

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ecology and evolutionary biology. While large scale philosophical convictions and attitudes often direct the theorist's line of concrete action in data collection and in theory information, the

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foundational convictions typically remain tacit, and are seldom argued for. The present collection aims to remedy this situation. It brings together scholars representing different

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approaches in a joint effort to explicate and analyse some of the key issues underlying ecological theorizing, be they conceptual, epistemological or ontological. The bulk of

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the present collection is reprinted from Synthese 43 (1980). William C. Wimsatt's paper 'Reductionistic Research Strategies and Their Biases in the Units of Selection Controversy' is in

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turn reprinted from T. Nickles (ed.) Scientific Discovery: Case Studies (D. Reidel, 1980). It appears here with the kind permission of Prof. Nickles. The publisher's consent for

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the reprints has been in each case automatic. The essays of Y rjo Haila and Olli Jarvinen, and of Leigh M. Van Valen appear here for the first time. In bringing the present collection together,

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as well as in editing the Synthese symposium on which it is based, I have greatly benefited from the suggestions of Professors Marjorie Grene, Olli J iirvinen and Daniel Simberloff. In

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addition to them, I wish to thank all the contributors for their interest in this project. An ideal text for students taking a course in landscape ecology. The book has been written by very well-known

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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

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problems such as global climate change, land use change, habitat fragmentation and loss of biodiversity have required ecologists to expand their traditional spatial and

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temporal scales and the widespread availability of remote imagery, geographic information systems, and desk top computing has permitted the development of spatially explicit analyses.

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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

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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

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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

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identifying areas where its contributions have been limited. Each chapter features questions for discussion as well as recommended reading. Once patronized primarily by

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the counterculture and the health food establishment, the organic food industry today is a multi-billion-dollar business driven by ever-growing consumer demand for safe food and greater

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public awareness of ecological issues. Assumed by many to be a recent phenomenon, that industry owes much to agricultural innovations that go back to the Dust Bowl era. This book

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explores the roots and branches of alternative agricultural ideas in twentieth-century America, showing how ecological thought has challenged and changed agricultural theory,

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practice, and policy from the 1930s to the present. It introduces us to the people and institutions who forged alternatives to industrialized agriculture through a deep concern for the enduring

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fertility of the soil, a passionate commitment to human health, and a strong advocacy of economic justice for farmers. Randal Beeman and James Pritchard show that agricultural issues were

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central to the rise of the environmental movement in the United States. As family farms failed during the Depression, a new kind of agriculture was championed based on the holistic

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approach taught by the emerging science of ecology. Ecology influenced the "permanent agriculture" movement that advocated such radical concepts as long-term land use planning,

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comprehensive soil conservation, and organic farming. Then in the 1970s, "sustainable agriculture" combined many of these ideas with new concerns about misguided technology

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and an over-consumptive culture to preach a more sensible approach to farming. In chronicling the overlooked history of alternative agriculture, A Green and Permanent Land

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records the significant contributions of individuals like Rex Tugwell, Hugh Bennett, Louis Bromfield, Edward Faulkner, Russell and Kate Lord, Scott and Helen Nearing, Robert Rodale, Wes

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Jackson, and groups like Friends of the Land and the Practical Farmers of Iowa. And by demonstrating how agriculture also remains central to the public interest—especially in the

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*face of climatic crises,
genetically altered crops,
and questionable uses of
pesticides—this book puts
these issues in historical
perspective and offers
readers considerable food for*

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thought.

This book describes the emergence of landscape ecology, its current status as a new integrative science, and how distinguished scholars in the field of

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landscape ecology view the future regarding new challenges and career opportunities. Over the past thirty years, landscape ecology has utilized development in technology

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and methodology (e.g., satellites, GIS, and systems technologists) to monitor large temporal-spatial scale events and phenomena. These events include changes in vegetative cover

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and composition due to both natural disturbance and human cause—changes that have academic, economic, political, and social manifestations. There is little doubt, due to the temporal-

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spatial scale of this integrative science, that scholars in fields of study ranging from anthropology to urban ecology will desire to compare their fields with landscape ecology during

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*this intellectually and
technologically fertile time.
History of Landscape Ecology
in the United States brings to
light the vital role that
landscape ecologists will
play in the future as the*

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human population continues to increase and fragment the natural environment.

Landscape ecology is known as a synthesized intersection of disciplines; but new theories, concepts, and

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principles have emerged that form the foundation of a new transdiscipline.

Outlines and Highlights for Ecology by Michael L Cain, Isbn

Ecological Research and

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Surveys

Ecology EBook

Hearing, Eighty-ninth

Congress, Second Session,

April 27, 1966

Ecological Genetics

Currently considered a

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***bridge between basic and
Two possibilities exist to
expand landscape ecol
applied ecology, landscape
ecology occupies an ogy: one
consists of developing new
research, and important new***

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niche in ecology, representing a new the other in developing a good educational frame star 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***

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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***

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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

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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

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practi popular in many ecology-related fields, from plant tioners dealing with landscape ecology and its disease to animal behaviour. problems.

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As well as emphasising the links to evolution, 'Ecology' covers all the levels of the ecological hierarchy at which the subject is studied. It focuses on their

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integration to ensure that students are able to grasp how events in nature are interconnected.

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persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook

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Methods in Comparative

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***Plant Population Ecology
Natural Enemies of
Terrestrial Molluscs
Ecology
Studyguide for Ecology by
Cain***

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Invasion ecology is the study of the causes and consequences of the introduction of organisms to areas outside their native range. Interest in this field has exploded in the past few decades. Explaining why and how organisms are moved around

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the world, how and why some become established and invade, and how best to manage invasive species in the face of global change are all crucial issues that interest biogeographers, ecologists and environmental managers in all parts

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of the world. This book brings together the insights of more than 50 authors to examine the origins, foundations, current dimensions and potential trajectories of invasion ecology. It revisits key tenets of the foundations of invasion ecology,

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including contributions of pioneering naturalists of the 19th century, including Charles Darwin and British ecologist Charles Elton, whose 1958 monograph on invasive species is widely acknowledged as having focussed scientific attention

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on biological invasions.

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