

Ecology Concepts And Applications Canadian Edition

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[Supporting Biocultural Diversity, Sustainability and Society](#) CRC Press

Theoretical Ecology: concepts and applications continues the authoritative and established sequence of theoretical ecology books initiated by Robert M. May which helped pave the way for ecology to become a more robust theoretical science, encouraging the modern biologist to better understand the mathematics behind their theories. This latest instalment builds on the legacy of its predecessors with a completely new set of contributions. Rather than placing emphasis on the historical ideas in theoretical ecology, the Editors have encouraged each contribution to: synthesize historical theoretical ideas within modern frameworks that have emerged in the last 10-20 years (e.g. bridging population interactions to whole food webs); describe novel theory that has emerged in the last 20 years from historical empirical areas (e.g. macro-ecology); and finally to cover the rapidly expanding area of theoretical ecological applications (e.g. disease theory and global change theory). The result is a forward-looking synthesis that will help guide the field through a further decade of discovery and development. It is written for upper level undergraduate students, graduate students, and researchers seeking synthesis and the state of the art in growing areas of interest in theoretical ecology, genetics, evolutionary ecology, and mathematical biology.

Foundation Papers in Landscape Ecology Springer

A synthesis of contemporary analytical and modeling approaches in population ecology The book provides an overview of the key analytical approaches that are currently used in demographic, genetic, and spatial analyses in population ecology. The chapters present current problems, introduce advances in analytical methods and models, and demonstrate the applications of quantitative methods to ecological data. The book covers new tools for designing robust field studies; estimation of abundance and demographic rates; matrix population models and analyses of population dynamics; and current approaches for genetic and spatial analysis. Each chapter is illustrated by empirical examples based on real datasets, with a companion website that offers online exercises and examples of computer code in the R statistical software platform. Fills a niche for a book that emphasizes applied aspects of population analysis Covers many of the current methods being used to analyse population dynamics and structure Illustrates the application of specific analytical methods through worked examples based on real datasets Offers readers the opportunity to work through examples or adapt the routines to their own datasets using computer code in the R statistical platform Population Ecology in Practice is an excellent book for upper-level undergraduate and graduate students taking courses in population ecology or ecological statistics, as well as established researchers needing a desktop reference for contemporary methods used to develop robust population assessments.

Exergy Island Press

This volume is for environmental researchers and government policy makers who are required to monitor environmental quality for their environmental investigators and remediation plans. It uses concepts and applications to aid in the exchange of scientific information across all the environmental science disciplines ranging from geochemistry to hydrogeology and ecology to biotechnology. Focusing on issues such as metals,

organics and nutrient contamination of water and soils, and interactions between soil-water-plants-chemicals, the book synthesizes the latest findings in this rapidly-developing, multi-disciplinary field. Cutting-edge environmental analytical methods are also presented, making this a must-have for professionals tasked with monitoring environmental quality. These concepts and applications help in decision making and problem solving in a single resource. *Integrative approach promotes the exchange of scientific information among different disciplines *New concepts and case studies make the text unique among existing resources *Tremendous practical value in environmental quality and remediation with an emphasis on human health and ecological risk assessment

The Princeton Guide to Ecology McGraw-Hill Education

This book began life as a series of lectures given to second and third year undergraduates at Oxford University. These lectures were designed to give students insights as to how marine ecosystems functioned, how they were being affected by natural and human interventions, and how we might be able to conserve them and manage them sustainably for the good of people, both recreationally and economically. This book presents 10 chapters, beginning with principles of oceanography important to ecology, through discussions of the magnitude of marine biodiversity and the factors influencing it, the functioning of marine ecosystems at within trophic levels such as primary production, competition and dispersal, to different trophic level interactions such as herbivory, predation and parasitism. The final three chapters look at the more applied aspects of marine ecology, discussion fisheries, human impacts, and management and conservation. Other textbooks covering similar topics tend to treat the topics from the point of view of separate ecosystems, with chapters on reefs, rocks and deep sea. This book however is topic driven as described above, and each chapter makes full use of examples from all appropriate marine ecosystems. The book is illustrated throughout with many full colour diagrams and high quality photographs. The book is aimed at undergraduate and graduate students at colleges and universities, and it is hoped that the many examples from all over the world will provide global relevance and interest. Both authors have long experience of research and teaching in marine ecology. Martin Speight's first degree was in marine zoology at UCNW Bangor, and he has taught marine ecology and conservation at Oxford for 25 years. His research students study tropical marine ecology from the Caribbean through East Africa to the Far East. Peter Henderson is a Senior Research Associate at the University of Oxford, and is Director of Pisces Conservation in the UK. He has worked on marine and freshwater fisheries, as well as ecological and economic impacts and exploitation of the sea in North and South America as well as Europe.

Concepts and Applications Ecology Concepts and Applications

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

Proceedings RMRS. Routledge

This introductory general ecology text features a strong emphasis on helping students grasp the main concepts of ecology while keeping the presentation more applied than theoretical. An evolutionary perspective forms the foundation of the entire discussion. The book begins with the natural history of the planet, considers portions of the whole in the middle chapters, and ends with another perspective of the entire planet in the concluding chapter. Its unique organization of focusing only on several key concepts in each chapter sets it apart from the competition.

Biology: Concepts and Applications Cengage Learning

This book presents a comprehensive overview of all aspects of ecology, including evolution, ecosystems theory, practical applications, plants, animals, biogeochemical cycles, and global change. A new chapter discusses global environmental change, human impacts on the global carbon cycle, and the possible implications for the global climate system. Six "Ecological Application Essays" demonstrate to students the real world relevance of ecological concepts. For example, Part V, Population Interactions, discusses how a lack of mushrooms helped power the Industrial Revolution. Reflecting current changes in the field of ecology, the new edition incorporates more discussion of the evolutionary perspective on ecological systems. For anyone interested in ecology.

The Theory of Ecological Communities (MPB-57) Benjamin-Cummings Publishing Company

This book provides an introduction to the diversity of aquatic environments and moves away from the traditional split between marine and freshwater systems, emphasising their common features and ecological similarities.

Concepts and Applications Cambridge University Press

UNESCO Biosphere Reserves (BRs) are designated areas in geographical regions of global socio-ecological significance. This definitive book shows their global relevance and contribution to environmental protection, biocultural diversity and education. Initiated in the 1970s as part of UNESCO's Man and Biosphere (MAB) Programme, BRs share a set of common objectives, to support and demonstrate a balance between biodiversity conservation, sustainable development and research. The world's 701 BRs form an international, intergovernmental network to support the aims of sustainability science, but this purpose has not always been widely understood. In three distinct sections, the book starts by outlining the origins of BRs and the MAB Programme, showing how they contribute to advancing sustainable development. The second section documents the evolution of BRs around the world, including case studies from each of the five UNESCO world regions. Each case study demonstrates how conservation, sustainable development and the role of scientific research have been interpreted locally. The book concludes by discussing thematic lessons to help understand the challenges and opportunities associated with sustainability science, providing a unique platform from which lessons can be learned. This includes how concepts become actions on the ground and how ideas can be taken up across sites at differing scales. This book will be of great interest to professionals engaged in conservation and sustainable development, NGOs, policy-makers and advanced students in environmental management, ecology, sustainability science, environmental anthropology and geography.

Ecology Academic Press

The Pacific Northwest is a global ecological "hotspot" because of its relatively healthy native ecosystems, a high degree of biodiversity, and the number and scope of restoration initiatives that have been undertaken there. Restoring the Pacific Northwest gathers and presents the best examples of state-of-the-art restoration techniques and projects. It is an encyclopedic overview that will be an invaluable reference not just for restorationists and students working in the Pacific Northwest, but for practitioners across North America and around the world.

Spatial Ecology and Conservation Modeling Springer Science & Business Media

Ecology: Concepts and Applications by Molles places great emphasis on helping students grasp the main concepts of ecology while keeping the presentation more applied than theoretical. An evolutionary perspective forms the foundation of the entire discussion. The book begins with the natural history of the planet, considers portions of the whole in the middle chapters, and ends with another perspective of the entire planet in the concluding chapter. Its unique organization of focusing only on several key concepts in each chapter sets it apart from other ecology texts. Users who purchase Connect Plus receive access to the full online ebook version of the textbook.

Forest Landscape Ecology Princeton University Press

Landscape ecology has generated a wealth of knowledge that could enhance forest policy, but little of this knowledge has found its way into practice. This the first book to introduce landscape ecologists to the discipline of knowledge transfer. The book considers knowledge transfer in general, critically examines aspects that are unique to forest landscape ecology, and reviews case studies of successful applications for policy developers and forest managers in North America.

The Art and Science of Ecological Restoration in Cascadia John Wiley & Sons

A plethora of different theories, models, and concepts make up the field of community ecology. Amid this vast body of work, is it possible to build one general theory of ecological communities? What other scientific areas might serve as a guiding framework? As it turns out, the core focus of community ecology—understanding patterns of diversity and composition of biological variants across space and time—is shared by evolutionary biology and its very coherent conceptual framework, population genetics theory. The Theory of Ecological Communities takes this as a starting point to pull together community ecology's various perspectives into a more unified whole. Mark Vellend builds a theory of ecological communities based on four overarching processes: selection among species, drift, dispersal, and speciation. These are analogues of the four central processes in population genetics theory—selection within species, drift, gene flow, and mutation—and together they subsume almost all of the many dozens of more specific models built to describe the dynamics of communities of interacting species. The result is a theory that allows the effects of many low-level processes, such as competition, facilitation, predation, disturbance, stress, succession, colonization, and local extinction to be understood as the underpinnings of high-level processes with widely applicable consequences for ecological communities. Reframing the numerous existing ideas in community ecology, The Theory of Ecological Communities provides a new way for thinking about biological composition and diversity.

Marine Ecology Island Press

Maintaining forest biodiversity by combining protection, management and restoration of forest and woodland landscapes is a central component of sustainable development. Evidence that there are threshold levels for how much habitat loss may be tolerated for viable populations of specialised species to be maintained. Policy-makers, businesses and managers pose questions about how to balance use of renewable forest resources and conserve biodiversity. Examples are presented on how biodiversity assessments can be made. Proposes how the critical gaps in our knowledge identified throughout the book could be filled through macroecological research and international co-operation.

Elements of Ecology Oxford University Press

Freshwater Ecology, Second Edition, is a broad, up-to-date treatment of everything from the basic chemical and physical properties of water to advanced unifying concepts of the community ecology and ecosystem relationships as found in continental waters. With 40% new and expanded coverage, this text covers applied and basic aspects of limnology, now with more emphasis on wetlands and reservoirs than in the previous edition. It features 80 new and updated figures, including a section of color plates, and 500 new and updated references. The authors take a synthetic approach to ecological problems, teaching students how to handle the challenges faced by contemporary aquatic scientists. This text is designed for undergraduate students taking courses in Freshwater Ecology and Limnology; and introductory graduate students taking courses in Freshwater Ecology and Limnology. Expanded revision of Dodds' successful text. New boxed sections provide more advanced material within the introductory, modular format of the first edition. Basic scientific concepts and environmental applications featured throughout. Added coverage of climate change, ecosystem function, hypertrophic habitats and secondary production. Expanded coverage of physical limnology, groundwater and wetland habitats. Expanded coverage of the toxic effects of pharmaceuticals and endocrine disrupters as freshwater pollutants More on aquatic invertebrates, with more images and pictures of a broader range of organisms Expanded coverage of the functional roles of filterer feeding, scraping, and shredding organisms, and a new section on omnivores. Expanded appendix on standard statistical techniques. Supporting website with figures and tables - <http://www.elsevierdirect.com/companion.jsp?ISBN=9780123747242>

Energy, Environment and Sustainable Development Cambridge University Press

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, *Concepts of Biology* is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of *Concepts of Biology* is that instructors can customize the book, adapting it to the approach that works best in their classroom. *Concepts of Biology* also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand—and apply—key concepts.

Concepts and Applications Newnes

Population genomics has revolutionized various disciplines of biology including population, evolutionary, ecological and conservation genetics, plant and animal breeding, human health, medicine and pharmacology by allowing to address novel and long-standing questions with unprecedented power and accuracy. It employs large-scale or genome-wide genetic information and bioinformatics to address various fundamental and applied

aspects in biology and related disciplines, and provides a comprehensive genome-wide perspective and new insights that were not possible before. These advances have become possible due to the development of new and low-cost sequencing and genotyping technologies and novel statistical approaches and software, bioinformatics tools, and models. Population genomics is tremendously advancing our understanding the roles of evolutionary processes, such as mutation, genetic drift, gene flow, and natural selection, in shaping up genetic variation at individual loci and across the genome and populations; improving the assessment of population genetic parameters or processes such as adaptive evolution, effective population size, gene flow, admixture, inbreeding and outbreeding depression, demography, and biogeography; resolving evolutionary histories and phylogenetic relationships of extant, ancient and extinct species; understanding the genomic basis of fitness, adaptation, speciation, complex ecological and economically important traits, and disease and insect resistance; facilitating forensics, genetic medicine and pharmacology; delineating conservation genetic units; and understanding the genetic effects of resource management practices, and assisting conservation and sustainable management of genetic resources. This Population Genomics book discusses the concepts, approaches, applications and promises of population genomics in addressing most of the above fundamental and applied crucial aspects in a variety of organisms from microorganisms to humans. The book provides insights into a range of emerging population genomics topics including population epigenomics, landscape genomics, seascape genomics, paleogenomics, ecological and evolutionary genomics, biogeography, demography, speciation, admixture, colonization and invasion, genomic selection, and plant and animal domestication. This book fills a vacuum in the field and is expected to become a primary reference in Population Genomics world-wide.

A Practical Guide to Concepts and Techniques Princeton University Press

This book examines the application of fish community characteristics to evaluate the sustainability and biological integrity of freshwaters. Topics include perspectives on use of fish communities as environmental indicators in program development, collaboration, and partnership forming;

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influence of specific taxa on assessment of the IBI; regional applications for areas where the IBI had not previously been developed; and specific applications of the IBI developed for coldwater streams, inland lakes, Great Lakes, reservoirs, and tailwaters.

Ecology of Aquatic Systems Springer Science & Business Media

The Princeton Guide to Ecology is a concise, authoritative one-volume reference to the field's major subjects and key concepts. Edited by eminent ecologist Simon Levin, with contributions from an international team of leading ecologists, the book contains more than ninety clear, accurate, and up-to-date articles on the most important topics within seven major areas: autecology, population ecology, communities and ecosystems, landscapes and the biosphere, conservation biology, ecosystem services, and biosphere management. Complete with more than 200 illustrations (including sixteen pages in color), a glossary of key terms, a chronology of milestones in the field, suggestions for further reading on each topic, and an index, this is an essential volume for undergraduate and graduate students, research ecologists, scientists in related fields, policymakers, and anyone else with a serious interest in ecology. Explains key topics in one concise and authoritative volume Features more than ninety articles written by an international team of leading ecologists Contains more than 200 illustrations, including sixteen pages in color Includes glossary, chronology, suggestions for further reading, and index Covers autecology, population ecology, communities and ecosystems, landscapes and the biosphere, conservation biology, ecosystem services, and biosphere management

UNESCO Biosphere Reserves Columbia University Press

Fire Ecology in Rocky Mountain Landscapes is the first comprehensive review of scientific research on fire in Rocky Mountain ecosystems emphasizing the landscape scale. It is essential reading for anyone concerned with fire and fire management, including academic and agency scientists; natural resource professionals; and researchers, professors, and students involved with environmental science, land management, and resource management.