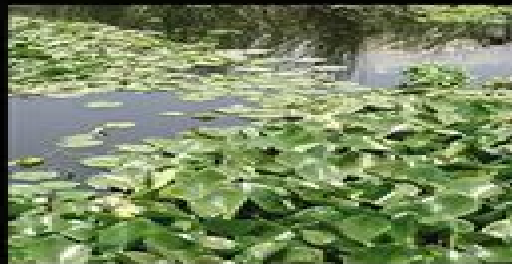




POPULATION ECOLOGY

Second
Edition

FIRST PRINCIPLES



John H. Vandermeer and Deborah E. Goldberg

Population Ecology First Principles

Larry L. Rockwood



Population Ecology First Principles:

Population Ecology John H. Vandermeer, Deborah E. Goldberg, 2013-08-25 The essential introduction to population ecology now expanded and fully updated Ecology is capturing the popular imagination like never before with issues such as climate change species extinctions and habitat destruction becoming ever more prominent At the same time the science of ecology has advanced dramatically growing in mathematical and theoretical sophistication Here two leading experts present the fundamental quantitative principles of ecology in an accessible yet rigorous way introducing students to the most basic of all ecological subjects the structure and dynamics of populations John Vandermeer and Deborah Goldberg show that populations are more than simply collections of individuals Complex variables such as distribution and territory for expanding groups come into play when mathematical models are applied Vandermeer and Goldberg build these models from the ground up from first principles using a broad range of empirical examples from animals and viruses to plants and humans They address a host of exciting topics along the way including age structured populations spatially distributed populations and metapopulations This second edition of Population Ecology is fully updated and expanded with additional exercises in virtually every chapter making it the most up to date and comprehensive textbook of its kind Provides an accessible mathematical foundation for the latest advances in ecology Features numerous exercises and examples throughout Introduces students to the key literature in the field The essential textbook for advanced undergraduates and graduate students An online illustration package is available to professors Population Ecology, 19?? **Theory of Wildlife**

Population Ecology Bruce D. Leopold, 2018-10-25 Understanding wildlife population ecology is vital for all wildlife managers and conservation biologists Leopold draws on 30 years of research and teaching experience to give students and natural resource professionals the foundation they need to effectively manage wildlife populations He begins with the key statistical concepts and research approaches necessary to gain insight into various models of population dynamics The many factors that influence wildlife populations are thoroughly explored and their consequences are investigated In addition the author presents techniques for analyzing wildlife harvest data and a lucid discussion of valuable wildlife census methods Frequent examples of foundational literature supplement each chapter with applications of the theories and provide a concise compendium of fundamental concepts of population ecology Abundant statistical exercises reinforce students learning throughout the text Introduction to Population Ecology Larry L. Rockwood, 2015-04-07 Introduction to Population Ecology 2nd Edition is a comprehensive textbook covering all aspects of population ecology It uses a wide variety of field and laboratory examples botanical to zoological from the tropics to the tundra to illustrate the fundamental laws of population ecology Controversies in population ecology are brought fully up to date in this edition with many brand new and revised examples and data Each chapter provides an overview of how population theory has developed followed by descriptions of laboratory and field studies that have been inspired by the theory Topics explored include single species

population growth and self limitation life histories metapopulations and a wide range of interspecific interactions including competition mutualism parasite host predator prey and plant herbivore An additional final chapter new for the second edition considers multi trophic and other complex interactions among species Throughout the book the mathematics involved is explained with a step by step approach and graphs and other visual aids are used to present a clear illustration of how the models work Such features make this an accessible introduction to population ecology essential reading for undergraduate and graduate students taking courses in population ecology applied ecology conservation ecology and conservation biology including those with little mathematical experience Methods in Comparative Plant Population Ecology David J.

Gibson,2015 A user friendly introduction to the methodology of plant population ecology research **Population Ecology**,1973 From Individual Behaviour to Population Ecology William J. Sutherland,1996 Population dynamics and animal

behaviour are two subjects which have developed almost independently despite widespread acceptance of their interrelationship This study aims to provide a framework for combining both fields of research It also considers a range of conservation issues *Fishery Ecosystem Dynamics* Michael J. Fogarty,Jeremy S. Collie,2020-07-24 Fisheries supply a critically important ecosystem service by providing over three billion people with nearly 20% of their daily animal protein intake Yet one third of the world s fish stocks are currently harvested at unsustainable levels Calls for the adoption of more holistic approaches to management that incorporate broader ecosystem principles are now being translated into action worldwide to meet this challenge The transition from concept to implementation is accompanied by the need to further establish and evaluate the analytical framework for Ecosystem Based Fishery Management EBFM The objectives of this novel textbook are to provide an introduction to this topic for the next generation of scientists who will carry on this work to illuminate the deep and often underappreciated connections between basic ecology and fishery science and to explore the implications of these linkages in formulating management strategies for the 21st century Fishery Ecosystem Dynamics will be of great use to graduate level students as well as academic researchers and professionals both governmental and NGO in the fields of fisheries ecology and management **Introduction to Modeling in Wildlife and Resource Conservation**

Norman Owen-Smith,2009-03-12 This book provides students with the skills to develop their own models for application in conservation biology and wildlife management Assuming no special mathematical expertise the computational models used are kept simple and show how to develop models in both spreadsheet and programming language format Develops thought provoking applications which emphasize the value of modeling as a learning tool Examines basic descriptive equations matrix representations consumer resources interactions applications in simulation scenarios harvesting population viability metapopulation dynamics disease outbreaks vegetation stage and state dynamics habitat suitability assessment and model selection statistics Includes a wide range of examples relating to birds fish plants and large African mammals

Environmental Systems Analysis with MATLAB® Stefano Marsili-Libelli,2018-09-03 Explore the inner workings of

environmental processes using a mathematical approach Environmental Systems Analysis with MATLAB combines environmental science concepts and system theory with numerical techniques to provide a better understanding of how our environment works The book focuses on building mathematical models of environmental systems and using these models to analyze their behaviors Designed with the environmental professional in mind it offers a practical introduction to developing the skills required for managing environmental modeling and data handling The book follows a logical sequence from the basic steps of model building and data analysis to implementing these concepts into working computer codes and then on to assessing their results It describes data processing rarely considered in environmental analysis outlines the tools needed to successfully analyze data and develop models and moves on to real world problems The author illustrates in the first four chapters the methodological aspects of environmental systems analysis and in subsequent chapters applies them to specific environmental concerns The accompanying software bundle is freely downloadable from the book web site It follows the chapters sequence and provides a hands on experience allowing the reader to reproduce the figures in the text and experiment by varying the problem setting A basic MATLAB literacy is required to get the most out of the software Ideal for coursework and self study this offering Deals with the basic concepts of environmental modeling and identification both from the mechanistic and the data driven viewpoint Provides a unifying methodological approach to deal with specific aspects of environmental modeling population dynamics flow systems and environmental microbiology Assesses the similarities and the differences of microbial processes in natural and man made environments Analyzes several aquatic ecosystems case studies Presents an application of an extended Streeter Phelps S P model Describes an ecological method to estimate the bioavailable nutrients in natural waters Considers a lagoon ecosystem from several viewpoints including modeling and management and more

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Peter Petraitis, 2013-04-25 Many natural systems such as coral reefs and tropical forests are undergoing rapid changes that appear without warning and seem irreversible This book presents a clear and concise overview of the ecological theory that has been developed to explain these sudden changes and provides a number of compelling examples *God's Babies* John McKeown, 2014-12-17 The human population's annual total consumption is not sustainable by one planet This unprecedented situation calls for a reform of religious cultures that promote a large ideal family size Many observers assume that Christianity is inevitably part of this problem because it promotes family values and statistically in America and elsewhere has a higher birthrate than nonreligious people This book explores diverse ideas about human reproduction in the church past and present It investigates an extreme fringe of U S Protestantism including the Quiverfull movement that use Old Testament fruitful verses to support natalist ideas explicitly promoting higher fecundity It also challenges the claim by some natalists that Martin Luther in the 16th century advocated similar ideas This book argues that natalism is inappropriate as a Christian application of Scripture especially since rich populations' total footprints are detrimental to biodiversity and to human welfare It explores the ancient cultural context of the Bible verses quoted by natalists Challenging the assumption that religion normally promotes fecundity the book finds surprising exceptions among early Christians with a special focus on Saint Augustine since they advocated spiritual fecundity in preference to biological fecundity Finally the book uses a hermeneutic lens derived from Genesis 1 and prioritising the modern problem of biodiversity to provide ecological interpretations of the Bible's fruitful verses **Life History Evolution** Steven C. Hertler, Aurelio José Figueredo, Mateo Peñaherrera-Aguirre, Heitor B. F. Fernandes, Michael A. Woodley of Menie, 2018-07-04 The social sciences share a mission to shed light on human nature and society However there is no widely accepted meta theory no foundation from which variables can be linked causally sequenced or ultimately explained This book advances life history evolution as the missing meta theory for the social sciences Originally a biological theory for the variation between species research on life history evolution now encompasses psychological and sociological variation within the human species that has long been the stock and trade of social scientific study The eighteen chapters of this book review six disciplines eighteen authors and eighty two volumes published between 1734 and 2015 re reading the texts in the light of life history evolution **Soil Microbiology, Ecology**

Soil Microbiology, Ecology

and Biochemistry, 2006-12-22 Now in its third edition this classic textbook includes basic concepts and applications in agriculture forestry environmental science and a new section entirely devoted to ecology This revised and updated edition guides students through biochemical and microbial processes in soils and introduces them to microbial processes in water and sediments Soil Microbiology Ecology and Biochemistry serves as an invaluable resource for students in biogeochemistry soil microbiology soil ecology sustainable agriculture and environmental amelioration NEW TO THIS EDITION New section on Ecology integrated with biochemistry and microbiology Sections on exciting new methodology such as tracers molecular analysis and computers that will allow great advances in this field Six new chapters bioremediation soil molecular biology biodiversity global climate change basic physiology and ecological interpretations Expanded with contributions from leading soil microbiologists and agronomists on both fundamental and applied aspects of the science Full color figures Includes a website with figures for classroom presentation use

Principles of Population Dynamics and Their Application Alan A. Berryman, 2020-11-25 This book provides an introduction to population dynamics exploring rules that govern change in any dynamic system and applying these general principles to populations of living organisms Principles of Population Dynamics and their Application is aimed at applied ecologists resource managers and pest managers It is also aimed at undergraduate students taking courses in forestry fisheries wildlife and pest management

A Primer on Population Dynamics Modeling Hiromi Seno, 2022-11-16 This textbook provides an introduction to the mathematical models of population dynamics in mathematical biology The focus of this book is on the biological meaning translation of mathematical structures in mathematical models rather than simply explaining mathematical details and literacies to analyze a model In some recent usages of the mathematical model simply with computer numerical calculations the model includes some inappropriate mathematical structure concerning the reasonability of modeling for the biological problem under investigation For students and researchers who study or use mathematical models it is important and helpful to understand what mathematical setup could be regarded as reasonable for the model with respect to the relation between the biological factors involved in the assumptions and the mathematical structure of the model Topics covered in this book are modeling with geometric progression density effect in population dynamics deriving continuous time models from discrete time models basic modeling for birth death stochastic processes continuous time models modeling interspecific reaction for the continuous time population dynamics model competition and prey predator dynamics modeling for population dynamics with a heterogeneous structure of population qualitative analysis on the discrete time dynamical system necessary knowledge about fundamental mathematical theories to understand the dynamical nature of continuous time models The book includes popular topics in ecology and mathematical biology as well as classic theoretical topics By understanding the biological meaning of modeling for simple models readers will be able to derive a specific mathematical model for a biological problem by reasonable modeling The contents of this book is made accessible for readers without strong Mathematical background

Population Ecology Michael Begon, Martin Mortimer, David J. Thompson, 2009-07-15 Worldwide Population Ecology is the leading textbook on this titled subject Written primarily for students it describes the present state of population ecology in terms that can be readily understood by undergraduates with little or no background in the subject Carefully chosen experimental examples illustrate each topic and studies of plants and animals are combined to show how fundamental principles can be derived that apply to both species Use of complex mathematics is avoided throughout the book and what math is necessary is dealt with by examination of real experimental data rather than dull theory The latest edition of this leading textbook Adopted as an Open University set text

Rereading the Fossil Record David Sepkoski, 2022-12-22 David Sepkoski's book is the first to examine the rise of paleobiology and the emergence of macroevolution as a discipline in the 1970s Kevin Padian University of California Berkeley Rereading the Fossil Record presents the first ever historical account of the origin rise and importance of paleobiology from the mid nineteenth century to the late 1980s Drawing on a wealth of archival material David Sepkoski shows how the movement was conceived and promoted by a small but influential group of paleontologists and examines the intellectual disciplinary and political dynamics involved in the ascendancy of paleobiology By tracing the role of computer technology large databases and quantitative analytical methods in the emergence of paleobiology this book also offers insight into the growing prominence and centrality of data driven approaches in recent science In the 1970s a new kid on the block was shaking up paleontology geology and biology Historian David Sepkoski charts the rise of paleobiology from 1945 to 1985 driven by a small but illustrious band of paleontologists including Stephen Jay Gould and David Raup who grappled with how the geological record could produce evidence for evolution The solution as Sepkoski engagingly relates lay in quantitative analysis of evolutionary patterns in fossils Nature David Sepkoski's book is the one book that anyone interested in evolution should buy this year And next year And probably the year after The reason is that for the first time the emergence of the modern science of macroevolution receives its due Reports of the National Center for Science Education

Saving Nature's Legacy Timothy J. Farnham, 2007-01-01 Biological diversity is considered one of today's most urgent environmental concerns yet the term was first coined only twenty five years ago Why did the concept of biological diversity so quickly capture public attention and emerge as a banner issue for the environmental movement In this book Timothy J Farnham explores for the first time the historical roots of biological diversity tracing the evolution of the term as well as the history of the conservation traditions that contributed to its rapid acceptance and popularity Biological diversity is understood today as consisting of three components species diversity genetic diversity and ecosystem diversity Farnham finds that these three tiers coincided with three earlier disparate conservation traditions that converged when the cause of preserving biological diversity was articulated He tells the stories of these different historical foundations recounts how the term came into the environmental lexicon and shows how the evolution of the idea of biological diversity reflects an evolution of American attitudes toward the natural world

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Table of Contents Population Ecology First Principles

1. Understanding the eBook Population Ecology First Principles
 - The Rise of Digital Reading Population Ecology First Principles
 - Advantages of eBooks Over Traditional Books
2. Identifying Population Ecology First Principles
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Population Ecology First Principles
 - User-Friendly Interface
4. Exploring eBook Recommendations from Population Ecology First Principles
 - Personalized Recommendations
 - Population Ecology First Principles User Reviews and Ratings
 - Population Ecology First Principles and Bestseller Lists

5. Accessing Population Ecology First Principles Free and Paid eBooks
 - Population Ecology First Principles Public Domain eBooks
 - Population Ecology First Principles eBook Subscription Services
 - Population Ecology First Principles Budget-Friendly Options
6. Navigating Population Ecology First Principles eBook Formats
 - ePub, PDF, MOBI, and More
 - Population Ecology First Principles Compatibility with Devices
 - Population Ecology First Principles Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Population Ecology First Principles
 - Highlighting and Note-Taking Population Ecology First Principles
 - Interactive Elements Population Ecology First Principles
8. Staying Engaged with Population Ecology First Principles
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Population Ecology First Principles
9. Balancing eBooks and Physical Books Population Ecology First Principles
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Population Ecology First Principles
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Population Ecology First Principles
 - Setting Reading Goals Population Ecology First Principles
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Population Ecology First Principles
 - Fact-Checking eBook Content of Population Ecology First Principles
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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