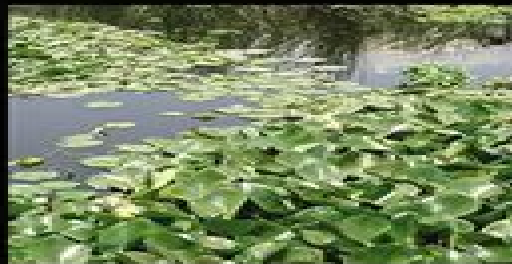




POPULATION ECOLOGY

Second
Edition

FIRST PRINCIPLES



John H. Vandermeer and Deborah E. Goldberg

Population Ecology First Principles

Stefano Marsili-Libelli



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

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

Population Ecology, 19?? **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 **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 This book will illuminate the deep and often underappreciated connections between basic ecology and fishery science and will explore the implications of these linkages in crafting management strategies for the 21st century *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

A Century in Books Princeton University Press Staff, 2021-10-12 It all began atop a drugstore in Princeton New Jersey in November 1905 From its modest beginnings Princeton University Press was to become one of the world's most important scholarly publishers embracing a wealth of disciplines that have enriched our cultural academic and scientific landscape Both as a tribute to our authors and to celebrate our centenary Princeton University Press here presents A Century in Books This beautifully designed volume highlights 100 of the nearly 8 000 books we have published Necessarily winnowed from a much larger list these books best typify what has been most lasting most defining and most distinctive about our publishing history from Einstein's The Meaning of Relativity 1922 to the numerous mathematical and other works that marked the Press's watershed decade of the 1940s including von Neumann and Morgenstern's Theory of Games and Economic Behavior from milestones of literary criticism by Erich Auerbach and Northrop Frye to George Kennan's Pulitzer Prize winning book on Soviet American relations from Milton Friedman and Anna Jacobson Schwartz's A Monetary History of the United States 1867 1960 to more recent landmarks such as L Luca Cavalli Sforza Paolo Menozzi and Alberto Piazza's The History and Geography of Human Genes and Robert Shiller's Irrational Exuberance In addition to succinct descriptions of the 100 titles and a short introduction on the history of the Press the book features five essays by prominent scholars and writers Michael Wood discusses the impact on Princeton University Press of intellectuals who fled Nazi Germany and authored many influential books Anthony Grafton recounts our rich publishing tradition in history politics and culture Sylvia Nasar traces our evolution into a leading voice in economics publishing Daniel Kevles reflects on Einstein a figure of special importance to Princeton And Lord Robert May writes on our long standing tradition of publishing in mathematics and science A Century in Books is more than a celebration of 100 years of publishing at Princeton University Press it is a treasure trove of 100 years of books that have added to the richness of twentieth century intellectual life

Animal Population Ecology T. Royama, 2021-04-22 Animal population ecology comprises the study of variations regulation and interactions of animal populations This book discusses the fundamental notions and findings of animal populations on which most of the ecological studies are based In particular the author selects the logistic law of population growth the nature of competition sociality as an antithesis of competition the mechanism underlying the regulation of populations predator prey interaction processes and interactions among closely related species competing over essential resources These are the notions that are considered to be well established facts or principles and are regularly taught at ecology classes or introduced in standard textbooks However the author demonstrates that these notions are still inadequately understood or even misunderstood creating myths that would misguide ecologists in carrying out their studies He delves deeply into those notions to reveal their real nature and draws a road map to the future

development of ecology **Multiple Stable States in Natural Ecosystems** 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 **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 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

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

Philosophy of Biology, 2007-02-05 Philosophy of Biology is a rapidly expanding field It is concerned with explanatory concepts in evolution genetics and ecology This collection of 25 essays by leading researchers provides an overview of the state of the field These essays are wholly new none of them could have been written even ten years ago They demonstrate how philosophical analysis has been able to contribute to sometimes contested areas of scientific theory making Written by internationally acknowledged leaders in the field Entries make original contributions as well as summarizing state of the art discoveries in the field Easy to read and understand

Marine Biology Jerónimo Pan, Paula Pratolongo, 2022-03-02 We present you with an updated reference book aimed for upper level undergraduate and graduate students interested in Marine Biology The textbook is designed to introduce the fundamentals of marine organisms and their ecological roles in the world's oceans and is organized by functional groups emphasizing marine biodiversity rather than systematics or habitats Each chapter has been written and peer reviewed by renowned international experts in their respective fields and includes updated information on relevant topics from the microbial loop and primary production in the oceans to marine megafauna and the impacts of projected climate change on marine life and ecosystems

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