An Illustrated Guide to Theoretical Ecology



Ted J. Case

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Illustrated Guide To Theoretical Ecology:

An Illustrated Guide to Theoretical Ecology Ted J. Case, Ted J Case, 2000 The author walks students through the most common models in ecology beginning with first principles and then gently making each formulation accessible through a step by step development of equations paired with illustrations Encyclopedia of Theoretical Ecology Dr. Alan Hastings, Dr. Louis Gross, 2012-05-31 This major reference is an overview of the current state of theoretical ecology through a series of topical entries centered on both ecological and statistical themes Coverage ranges across scales from the physiological to populations landscapes and ecosystems Entries provide an introduction to broad fields such as Applied Ecology Behavioral Ecology Computational Ecology Ecosystem Ecology Epidemiology and Epidemic Modeling Population Ecology Spatial Ecology and Statistics in Ecology Others provide greater specificity and depth including discussions on the Allee effect ordinary differential equations and ecosystem services Descriptions of modern statistical and modeling approaches and how they contributed to advances in theoretical ecology are also included Succinct uncompromising and authoritative a must have for those interested in the use of theory in the ecological sciences Ökologie kompakt Wolfgang Nentwig, Sven Bacher, Roland Brandl, 2010-06-01 Eine groe Zahl von Dozenten wurde nach ihren Lehrinhalten befragt viele Curricula wurde verglichen Herausgekommen ist dieses perfekt an das Bachelor Modul kologie angepasste Buch Das frische Layout der strukturierte Text und Pr fungsfragen erleichtern das Lernen und die Vorbereitung auf die Pr fung Das Basiswissen fr das Bachelorstudium passgenau f r das Curriculum Die Neuauflage wurde durchgehend aktualisiert A Biologist's Guide to Mathematical Modeling in Ecology and Evolution Sarah P. Otto, Troy Day, 2007-03-12 Thirty years ago biologists could get by with a rudimentary grasp of mathematics and modeling Not so today In seeking to answer fundamental questions about how biological systems function and change over time the modern biologist is as likely to rely on sophisticated mathematical and computer based models as traditional fieldwork In this book Sarah Otto and Troy Day provide biology students with the tools necessary to both interpret models and to build their own The book starts at an elementary level of mathematical modeling assuming that the reader has had high school mathematics and first year calculus Otto and Day then gradually build in depth and complexity from classic models in ecology and evolution to more intricate class structured and probabilistic models The authors provide primers with instructive exercises to introduce readers to the more advanced subjects of linear algebra and probability theory Through examples they describe how models have been used to understand such topics as the spread of HIV chaos the age structure of a country speciation and extinction Ecologists and evolutionary biologists today need enough mathematical training to be able to assess the power and limits of biological models and to develop theories and models themselves This innovative book will be an indispensable guide to the world of mathematical models for the next generation of biologists A how to guide for developing new mathematical models in biology Provides step by step recipes for constructing and analyzing models Interesting biological applications Explores classical models in ecology and evolution

Questions at the end of every chapter Primers cover important mathematical topics Exercises with answers Appendixes summarize useful rules Labs and advanced material available **Theory-based Ecology** Liz Pásztor, Zoltán Botta-Dukát, Gabriella Magyar, Tamás Czárán, Géza Meszéna, 2016 The first text to adopt a Darwinian approach to develop a universal coherent and robust theory of ecology and provide a unified treatment of ecology and evolution

Consumer-Resource Dynamics William W. Murdoch, Cheryl J. Briggs, Roger M. Nisbet, 2013-02-15 Despite often violent fluctuations in nature species extinction is rare California red scale a potentially devastating pest of citrus has been suppressed for fifty years in California to extremely low yet stable densities by its controlling parasitoid Some larch budmoth populations undergo extreme cycles others never cycle In Consumer Resource Dynamics William Murdoch Cherie Briggs and Roger Nisbet use these and numerous other biological examples to lay the groundwork for a unifying theory applicable to predator prey parasitoid host and other consumer resource interactions Throughout the focus is on how the properties of real organisms affect population dynamics. The core of the book synthesizes and extends the authors own models involving insect parasitoids and their hosts and explores in depth how consumer species compete for a dynamic resource The emerging general consumer resource theory accounts for how consumers respond to differences among individuals in the resource population From here the authors move to other models of consumer resource dynamics and population dynamics in general Consideration of empirical examples key concepts and a necessary review of simple models is followed by examination of spatial processes affecting dynamics and of implications for biological control of pest organisms. The book establishes the coherence and broad applicability of consumer resource theory and connects it to single species dynamics It closes by stressing the theory s value as a hierarchy of models that allows both generality and testability in the field Field Biologists and Other Interesting People Hanna Kokko, 2007-06-28 A friendly 2007 guide to mathematical modelling for evolutionary and behavioural ecologists **Integrating Landscape Ecology Into Natural Resource Management** Jianguo Liu, William W. Taylor, 2002-08 The rapidly increasing global population has dramatically increased the demands for natural resources and has caused significant changes in quantity and quality of natural resources To achieve sustainable resource management it is essential to obtain insightful guidance from emerging disciplines such as landscape ecology This text addresses the links between landscape ecology and natural resource management These links are discussed in the context of various landscape types a diverse set of resources and a wide range of management issues A large number of landscape ecology concepts principles and methods are introduced Critical reviews of past management practices and a number of case studies are presented This text provides many guidelines for managing natural resources from a landscape perspective and offers useful suggestions for landscape ecologists to carry out research relevant to natural resource management In addition it will be an ideal supplemental text for graduate and advanced undergraduate ecology courses The Theory of Ecology Samuel M. Scheiner, Michael R. Willig, 2011-06-15 Despite claims to the contrary the science of

ecology has a long history of building theories Many ecological theories are mathematical computational or statistical though and rarely have attempts been made to organize or extrapolate these models into broader theories The Theory of Ecology brings together some of the most respected and creative theoretical ecologists of this era to advance a comprehensive conceptual articulation of ecological theories The contributors cover a wide range of topics from ecological niche theory to population dynamic theory to island biogeography theory Collectively the chapters ably demonstrate how theory in ecology accounts for observations about the natural world and how models provide predictive understandings It organizes these models into constitutive domains that highlight the strengths and weaknesses of ecological understanding This book is a milestone in ecological theory and is certain to motivate future empirical and theoretical work in one of the most exciting and active domains of the life sciences

Ecological Models Jay Odenbaugh, 2019-10-10 In this book we consider three questions What are ecological models How are they tested How do ecological models inform environmental policy and politics Through several case studies we see how these representations which idealize and abstract can be used to explain and predict complicated ecological systems Additionally we see how they bear on environmental policy and politics

Quantitative Ecology David C. Schneider, 2009-07-20 A follow up to the highly successful first edition this book reviews the manifold ways that scale influences the interpretation of ecological variation As scale magnitude quantity and measurement occupy an expanding role in ecology this 2e will be an indispensable addition to individual and institutional libraries In providing a context for resolution of ecological problems ecologists will appreciate the significance of scale and magnitude addressed in this book Written for advanced undergraduates graduate students and faculty researchers this book synthesizes a burgeoning literature on the influences of scale Expanded by numerous explanatory figures and wide coverage of material Topic is of crucial importance to ecologists The most thorough complete coverage available on quantitative ecology in the market 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 Temporal Dynamics and Ecological Process Colleen K. Kelly, Michael G. Bowler, Gordon A. Fox, 2014-01-16 In contrast with the fundamental ecological expectation that similarity induces competition and loss of species temporal dynamics allows similar species to co occur In fact the coexistence of similar species contributes significantly to species diversity and could affect ecosystem response to climate change However because temporal processes take place over time they have often been a challenge to document or even to identify Temporal Dynamics and Ecological Process brings together studies that have met this challenge and present two specific aspects of temporal processes reproductive scheduling and the stable coexistence of similar species By using plants to extract general principles these studies uncover deep ties between temporal niche dynamics and the above central ecological issues thereby providing a better understanding of what drives temporal processes in nature Written by leading scientists in the field this title will be a valuable source of reference to research ecologists and those interested in temporal ecology Frontiers in Ecology, Evolution and Complexity Mariana Benítez, Octavio Miramontes, Alfonso Valiente-Banuet, 2014-07-08 Advances in molecular biology remote sensing systems biology bioinformatics non linear science the physics of complex systems and other fields have rendered a great amount of data that remain to be integrated into models and theories that are capable of accounting for the complexity of ecological systems and the evolutionary dynamics of life It is thus necessary to provide a solid basis to discuss and reflect on these and other challenges both at the local and global scales This volume aims to delineate an integrative and interdisciplinary view that suggests new avenues in research and teaching critically discusses the scope of the diverse methods in the study of complex systems and points at key open questions Finally this book will provide students and specialists with a collection of high quality open access essays that will contribute to integrate Ecology Evolution and Complexity in the context of basic research and in the field of Sustainability Sciences Fundamental Processes in Ecology David M Wilkinson, 2007-09-13 Fundamental Processes in Ecology presents a way to study ecosystems that is not yet available in ecology textbooks but is resonant with current thinking in the emerging fields of geobiology and Earth System Science It provides an alternative process based classification of ecology and proposes a truly planetary view of ecological science To achieve this it asks and endeavours to answer the question what are the fundamental ecological processes which would be found on any planet with Earth like carbon based life The author demonstrates how the idea of fundamental ecological processes can be developed at the systems level specifically their involvement in control and feedback mechanisms This approach allows us to reconsider basic ecological ideas such as energy flow guilds trade offs carbon cycling and photosynthesis and to put these in a global context In doing so the book puts a much stronger emphasis on microorganisms than has traditionally been the case The integration of Earth System Science with ecology is vitally important if ecological science is to successfully contribute to the massive problems and future challenges associated with global change Although

the approach is heavily influenced by Lovelock's Gaia hypothesis this is not a popular science book about Gaian theory Instead it is written as an accessible text for graduate student seminar courses and researchers in the fields of ecology earth system science evolutionary biology palaeontology history of life astrobiology geology and physical geography Webs John C. Moore, Peter C. de Ruiter, Kevin S. McCann, 2018 This book presents new approaches to studying food webs using practical and policy examples to demonstrate the theory behind ecosystem management decisions Stoichiometry Robert W. Sterner, James J. Elser, 2017-02-15 All life is chemical That fact underpins the developing field of ecological stoichiometry the study of the balance of chemical elements in ecological interactions This long awaited book brings this field into its own as a unifying force in ecology and evolution Synthesizing a wide range of knowledge Robert Sterner and Jim Elser show how an understanding of the biochemical deployment of elements in organisms from microbes to metazoa provides the key to making sense of both aquatic and terrestrial ecosystems After summarizing the chemistry of elements and their relative abundance in Earth's environment the authors proceed along a line of increasing complexity and scale from molecules to cells individuals populations communities and ecosystems The book examines fundamental chemical constraints on ecological phenomena such as competition herbivory symbiosis energy flow in food webs and organic matter sequestration In accessible prose and with clear mathematical models the authors show how ecological stoichiometry can illuminate diverse fields of study from metabolism to global change Set to be a classic in the field Ecological Stoichiometry is an indispensable resource for researchers instructors and students of ecology evolution physiology and biogeochemistry From the foreword by Peter Vitousek T his book represents a significant milestone in the history of ecology Love it or argue with it and I do both most ecologists will be influenced by the framework developed in this book There are points to question here and many more to test And if we are both lucky and good this questioning and testing will advance our field beyond the level achieved in this book I can t wait to get on with it **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 Advances in the Theory and Application of Fitness Landscapes Hendrik Richter, Andries Engelbrecht, 2013-11-19 This book is concerned with recent advances in fitness landscapes The concept of fitness landscapes originates from theoretical biology and refers to a framework for analysing and visualizing the relationships between genotypes phenotypes and fitness These relationships lay at the centre of attempts to mathematically describe evolutionary processes and evolutionary dynamics The book addresses recent advances in the understanding of fitness landscapes in evolutionary biology and evolutionary computation In the volume experts in the field of fitness landscapes present these findings in an integrated way to make it accessible to a number of audiences senior undergraduate and graduate students in computer science theoretical biology physics applied mathematics and engineering but also researcher looking for a reference or and entry point into using fitness landscapes for analysing algorithms Also practitioners wanting to employ fitness landscape techniques for evaluating bio and nature inspired computing algorithms can find valuable material in the book For teaching proposes the book could also be used as a reference handbook **Biological Invasions in Marine Ecosystems** Gil Rilov, Jeffrey A. Crooks, 2008-11-12 Biological invasions are considered to be one of the greatest threats to the integrity of most ecosystems on earth This volume explores the current state of marine bioinvasions which have been growing at an exponential rate over recent decades Focusing on the ecological aspects of biological invasions it elucidates the different stages of an invasion process starting with uptake and transport through inoculation establishment and finally integration into new ecosystems Basic ecological concepts all in the context of bioinvasions are covered such as propagule pressure species interactions phenotypic plasticity and the importance of biodiversity The authors approach bioinvasions as hazards to the integrity of natural communities but also as a tool for better understanding fundamental ecological processes Important aspects of managing marine bioinvasions are also discussed as are many informative case studies from around the world

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