

PRIMER OF ECOLOGICAL THEORY



Jonathan Roughgarden

Primer Of Ecological Theory

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Primer Of Ecological Theory:

Primer of Ecological Theory Joan Roughgarden, 1998 Presents an overview of ecological modeling as it relates to current ecological theory KEY TOPICS A Primer of Ecological Theory maintains its scientific objectivity while covering the full extent of current ecological modeling theory The book introduces the use of computer technology to ecological modeling through MATLAB This allows all work to be verified and the skills transferred to other disciplines MARKET A valuable resource book for ecologists resource managers and economists Mathematical Methods in Biology J. David Logan, William Wolessky, 2009-08-17 A one of a kind guide to using deterministic and probabilistic methods for solving problems in the biological sciences Highlighting the growing relevance of quantitative techniques in scientific research Mathematical Methods in Biology provides an accessible presentation of the broad range of important mathematical methods for solving problems in the biological sciences The book reveals the growing connections between mathematics and biology through clear explanations and specific interesting problems from areas such as population dynamics foraging theory and life history theory The authors begin with an introduction and review of mathematical tools that are employed in subsequent chapters including biological modeling calculus differential equations dimensionless variables and descriptive statistics The following chapters examine standard discrete and continuous models using matrix algebra as well as difference and differential equations Finally the book outlines probability statistics and stochastic methods as well as material on bootstrapping and stochastic differential equations which is a unique approach that is not offered in other literature on the topic In order to demonstrate the application of mathematical methods to the biological sciences the authors provide focused examples from the field of theoretical ecology which serve as an accessible context for study while also demonstrating mathematical skills that are applicable to many other areas in the life sciences The book's algorithms are illustrated using MATLAB but can also be replicated using other software packages including R Mathematica and Maple however the text does not require any single computer algebra package Each chapter contains numerous exercises and problems that range in difficulty from the basic to more challenging to assist readers with building their problem solving skills Selected solutions are included at the back of the book and a related Web site features supplemental material for further study Extensively class tested to ensure an easy to follow format Mathematical Methods in Biology is an excellent book for mathematics and biology courses at the upper undergraduate and graduate levels It also serves as a valuable reference for researchers and professionals working in the fields of biology ecology and biomathematics *Mathematical Ecology of Populations and Ecosystems* John Pastor, 2011-08-31 MATHEMATICAL ECOLOGY Population ecologists study how births and deaths affect the dynamics of populations and communities while ecosystem ecologists study how species control the flux of energy and materials through food webs and ecosystems Although all these processes occur simultaneously in nature the mathematical frameworks bridging the two disciplines have developed independently Consequently this independent development of theory has

impeded the cross fertilization of population and ecosystem ecology Using recent developments from dynamical systems theory this advanced undergraduate graduate level textbook shows how to bridge the two disciplines seamlessly The book shows how bifurcations between the solutions of models can help understand regime shifts in natural populations and ecosystems once thresholds in rates of births deaths consumption competition nutrient inputs and decay are crossed Mathematical Ecology is essential reading for students of ecology who have had a first course in calculus and linear algebra or students in mathematics wishing to learn how dynamical systems theory can be applied to ecological problems

The Theory of Ecology Samuel M. Scheiner, Michael R. Willig, 2011-07-15 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

Introduction to Population Ecology Larry L. Rockwood, 2015-06-15 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

Ecological Restoration in International Environmental Law Anastasia Telesetsky, An Cliquet, Afshin Akhtar-Khavari, 2016-12-01 Human activities are depleting ecosystems at an unprecedented rate In spite of nature conservation efforts worldwide many ecosystems including those critical for human well being have been damaged or

destroyed States and citizens need a new vision of how humans can reconnect with the natural environment With its focus on the long term holistic recovery of ecosystems ecological restoration has received increasing attention in the past decade from both scientists and policymakers Research on the implications of ecological restoration for the law and law for ecological restoration has been largely overlooked This is the first published book to examine comprehensively the relationship between international environmental law and ecological restoration While international environmental law IEL has developed significantly as a discipline over the past four decades this book enquires whether IEL can now assist states in making a strategic transition from not just protecting and maintaining the natural environment but also actively restoring it Arguing that states have international duties to restore this book offers reflections on the philosophical context of ecological restoration and the legal content of a duty to restore from an international law European Union law and national law perspective The book concludes with a discussion of several contemporary themes of interest to both lawyers and ecologists including the role of private actors protected areas and climate change in ecological restoration

Python for the Life Sciences Alexander Lancaster, Gordon Webster, 2019-09-27 Treat yourself to a lively intuitive and easy to follow introduction to computer programming in Python The book was written specifically for biologists with little or no prior experience of writing code with the goal of giving them not only a foundation in Python programming but also the confidence and inspiration to start using Python in their own research Virtually all of the examples in the book are drawn from across a wide spectrum of life science research from simple biochemical calculations and sequence analysis to modeling the dynamic interactions of genes and proteins in cells or the drift of genes in an evolving population Best of all Python for the Life Sciences shows you how to implement all of these projects in Python one of the most popular programming languages for scientific computing If you are a life scientist interested in learning Python to jump start your research this is the book for you What You'll Learn Write Python scripts to automate your lab calculations Search for important motifs in genome sequences Use object oriented programming with Python Study mining interaction network data for patterns Review dynamic modeling of biochemical switches Who This Book Is For Life scientists with little or no programming experience including undergraduate and graduate students postdoctoral researchers in academia and industry medical professionals and teachers lecturers A comprehensive introduction to using Python for computational biology A lovely book with humor and perspective John Novembre Associate Professor of Human Genetics University of Chicago and MacArthur Fellow Fun entertaining witty and darn useful Amagical portal to the big data revolution Sandro Santagata Assistant Professor in Pathology Harvard Medical School Alex and Gordon's enthusiasm for Python is contagious Glenys Thomson Professor of Integrative Biology University of California Berkeley

Evolution's Rainbow Joan Roughgarden, 2013-09-14 In this innovative celebration of diversity and affirmation of individuality in animals and humans Joan Roughgarden challenges accepted wisdom about gender identity and sexual orientation A distinguished evolutionary biologist Roughgarden takes on the medical

establishment the Bible social science and even Darwin himself She leads the reader through a fascinating discussion of diversity in gender and sexuality among fish reptiles amphibians birds and mammals including primates Evolution s Rainbow explains how this diversity develops from the action of genes and hormones and how people come to differ from each other in all aspects of body and behavior Roughgarden reconstructs primary science in light of feminist gay and transgender criticism and redefines our understanding of sex gender and sexuality Witty playful and daring this book will revolutionize our understanding of sexuality Roughgarden argues that principal elements of Darwinian sexual selection theory are false and suggests a new theory that emphasizes social inclusion and control of access to resources and mating opportunity She disputes a range of scientific and medical concepts including Wilson s genetic determinism of behavior evolutionary psychology the existence of a gay gene the role of parenting in determining gender identity and Dawkins s selfish gene as the driver of natural selection She dares social science to respect the agency and rationality of diverse people shows that many cultures across the world and throughout history accommodate people we label today as lesbian gay and transgendered and calls on the Christian religion to acknowledge the Bible s many passages endorsing diversity in gender and sexuality Evolution s Rainbow concludes with bold recommendations for improving education in biology psychology and medicine for democratizing genetic engineering and medical practice and for building a public monument to affirm diversity as one of our nation s defining principles

Individual-based Modeling and Ecology Volker Grimm, Steven F. Railsback, 2013-11-28

Individual based models are an exciting and widely used new tool for ecology These computational models allow scientists to explore the mechanisms through which population and ecosystem ecology arises from how individuals interact with each other and their environment This book provides the first in depth treatment of individual based modeling and its use to develop theoretical understanding of how ecological systems work an approach the authors call individual based ecology Grimm and Railsback start with a general primer on modeling how to design models that are as simple as possible while still allowing specific problems to be solved and how to move efficiently through a cycle of pattern oriented model design implementation and analysis Next they address the problems of theory and conceptual framework for individual based ecology What is theory That is how do we develop reusable models of how system dynamics arise from characteristics of individuals What conceptual framework do we use when the classical differential equation framework no longer applies An extensive review illustrates the ecological problems that have been addressed with individual based models The authors then identify how the mechanics of building and using individual based models differ from those of traditional science and provide guidance on formulating programming and analyzing models This book will be helpful to ecologists interested in modeling and to other scientists interested in agent based modeling

Discontinuities in Ecosystems and Other Complex Systems

Craig R. Allen, 2008 Following the publication of C S Holling s seminal work on the relationship between animal body mass patterns and scale specific landscape structure ecologists began to explore the theoretical and applied consequences of

discontinuities in ecosystems and other complex systems Are ecosystems and their components continuously distributed and do they adhere to scaling laws or are they discontinuous and more complex than early models would have us believe The resulting propositions over the structure of complex systems sparked an ongoing debate regarding the mechanisms generating discontinuities and the statistical methods used for their detection This volume takes the view that ecosystems and other complex systems are inherently discontinuous and that such fields as ecology economics and urban studies greatly benefit from this paradigm shift Contributors present evidence of the ubiquity of discontinuous distributions in ecological and social systems and how their analysis provides insight into complex phenomena The book is divided into three sections The first focuses on background material and contrasting views concerning the discontinuous organization of complex systems The second discusses discontinuous patterns detected in a number of different systems and methods for detecting them and the third touches on the potential significance of discontinuities in complex systems Science is still dominated by a focus on power laws but the contributors to this volume are convinced power laws often mask the interesting dynamics of systems and that those dynamics are best revealed by investigating deviations from assumed power law distributions In 2008 a grand conference on resilience was held in Stockholm hosting 600 participants from around the world There are now three big centers established with resilience the most recent one being the Stockholm Resilience Center with others in Australia an international coral reef center Arizona State University's new sustainability center focusing on anthropology and Canada's emerging social sciences and resilience center Activity continues to flourish in Alaska South Africa and the United Kingdom and a new center is forming in Uruguay

META-X®-Software for Metapopulation Viability Analysis Karin Frank, Helmut Lorek, Frank Köster, Michael Sonnenschein, Christian Wissel, Volker Grimm, 2012-12-06 Meta X is a user friendly computer program that allows students teachers and researchers to perform a metapopulation viability analysis i.e. to assess the extinction risk of meta populations on discrete partially isolated patches of habitat in a comfortable way The CD comes with an extensive handbook which explains the basic concept of the program and takes you on a guided tour through a model experiment It further provides the necessary scientific background on both metapopulation dynamics and population viability analysis A special feature of Meta X is that it supports comparative analyses of alternative scenarios This predestines Meta X to serve as an aid for decision making in conservation management and landscape planning Furthermore handbook and software together provide an invaluable help in research and teaching

Quantitative Analysis of Marine Biological Communities Gerald J. Bakus, 2007-01-22 Quantitative methods specifically tailored for the marine biologist While there are countless texts published on quantitative methods and many texts that cover quantitative terrestrial ecology this text fills the need for the special quantitative problems confronting marine biologists and biological oceanographers The author combines common quantitative techniques with recent advances in quantitative methodology and then demonstrates how these techniques can be used to study marine organisms their behaviors and their interactions with the environment Readers learn

how to better design experiments and sampling employ sophisticated mathematical techniques and accurately interpret and communicate the results Most of this text is written at an introductory level with a few topics that advance to more complex themes Among the topics covered are plot plotless sampling biometrics experimental design game theory optimization time trends modeling and environmental impact assessments Even readers new to quantitative methods will find the material accessible with plenty of features to engage their interest promote learning and put their knowledge into practice One or more examples are provided to illustrate each individual quantitative technique presented in the text The accompanying CD ROM features two multimedia programs several statistical programs help to run complex statistical programs and additional information amplifying topics covered in the text References lead readers to additional information to pursue individual topics in greater depth Quantitative Analysis of Marine Biological Communities with its extensive use of examples is ideal for undergraduate and graduate students in marine biology Marine biologists regardless of their level of experience will also discover new approaches to quantitative analysis tailored to the particular needs of their field

Emerging and Endemic Pathogens Kevin P. O'Connell,Evan W. Skowronski,Lela Bakanidze,Alexander Sulakvelidze,2010-08-25 It is a truism among biologists that an organism s phenotype is the product of both its genotype and its environment An organism s genotype contains the total informational potential of the individual while its environment shapes the expression of the ge type influences the rate of mutation and occurrence of modifications and ultimately determines the likelihood that the genotype or fractions thereof will survive into the next generation In the relationship between host and pathogen therefore each forms a part of the environment of the other mutually influencing the biology of both partners on scales ranging from the life history of individuals to the fate of populations or entire species Molecular biologists working on problems in pathogenesis generally think of the host organism as the pathogen s environment and perhaps occasionally consider the pathogen as part of the host s environment However because environment can be defined at many scales so too can phenotypes if a pathogen as a species is c sidered to exist in a host as a species then among its phenotypes is the nature of the pandemic disease it can cause within the host community The contributors to the proceedings of this NATO Advanced Research Workshop have treated the interplay of environment and genotype in the host pathogen relationship and its relationship to the problem of emerging infectious disease at both the macroscopic and microscopic molecular levels along this continuum of scale with some human history thrown in at times for good measure

Ecology C. Lévêque,2003-01-10 Eleven plants were chosen so as to cover a wide range of biological characteristics perennial annual autogamous allogamous etc in this study Three chapters on methodology complement these studies The first is devoted to the use of biological and molecular markers to analyse the diversity of collections the second addresses data analysis and the third describes a method for constituting core collectaions based on maximization of variability

Behavioral Flexibility in Primates Clara Jones,2006-09-10 Numerous figures illustrations and tables integration of new literature and concepts into field of primatology emphasis upon both behavioral

and cognitive mechanisms **Epidemiology and the People's Health** Nancy Krieger, 2011-03-23 This concise conceptually rich and accessible book is a rallying cry for a return to the study and discussion of epidemiologic theory what it is why it matters how it has changed over time and its implications for improving population health and promoting health equity By tracing its history and contours from ancient societies on through the development of and debates within contemporary epidemiology worldwide Dr Krieger shows how epidemiologic theory has long shaped epidemiologic practice knowledge and the politics of public health **Niche Construction** F. John Odling-Smee, Kevin N. Lala, Marcus Feldman, 2013-02-15 The seemingly innocent observation that the activities of organisms bring about changes in environments is so obvious that it seems an unlikely focus for a new line of thinking about evolution Yet niche construction as this process of organism driven environmental modification is known has hidden complexities By transforming biotic and abiotic sources of natural selection in external environments niche construction generates feedback in evolution on a scale hitherto underestimated and in a manner that transforms the evolutionary dynamic It also plays a critical role in ecology supporting ecosystem engineering and influencing the flow of energy and nutrients through ecosystems Despite this niche construction has been given short shrift in theoretical biology in part because it cannot be fully understood within the framework of standard evolutionary theory Wedding evolution and ecology this book extends evolutionary theory by formally including niche construction and ecological inheritance as additional evolutionary processes The authors support their historic move with empirical data theoretical population genetics and conceptual models They also describe new research methods capable of testing the theory They demonstrate how their theory can resolve long standing problems in ecology particularly by advancing the sorely needed synthesis of ecology and evolution and how it offers an evolutionary basis for the human sciences Already hailed as a pioneering work by some of the world's most influential biologists this is a rare potentially field changing contribution to the biological sciences **Complex Population Dynamics** Peter Turchin, 2013-02-15 Why do organisms become extremely abundant one year and then seem to disappear a few years later Why do population outbreaks in particular species happen more or less regularly in certain locations but only irregularly or never at all in other locations Complex population dynamics have fascinated biologists for decades By bringing together mathematical models statistical analyses and field experiments this book offers a comprehensive new synthesis of the theory of population oscillations Peter Turchin first reviews the conceptual tools that ecologists use to investigate population oscillations introducing population modeling and the statistical analysis of time series data He then provides an in depth discussion of several case studies including the larch budmoth southern pine beetle red grouse voles and lemmings snowshoe hare and ungulates to develop a new analysis of the mechanisms that drive population oscillations in nature Through such work the author argues ecologists can develop general laws of population dynamics that will help turn ecology into a truly quantitative and predictive science Complex Population Dynamics integrates theoretical and empirical studies into a major

new synthesis of current knowledge about population dynamics It is also a pioneering work that sets the course for ecology's future as a predictive science *Embodying Inequality* Nancy Krieger, 2016-12-05 To advance the epidemiological analysis of social inequalities in health and of the ways in which population distributions of disease disability and death reflect embodied expressions of social inequality this volume draws on articles published in the International Journal of Health Services between 1990 and 2000 Framed by ecosocial theory it employs ecosocial constructs of embodiment pathways of embodiment cumulative interplay of exposure susceptibility and resistance across the lifecourse and accountability and agency to address the question and who and what drives current and changing patterns of social inequalities in health

Autecology Gimme H. Walter, Rob Hengeveld, 2014-04-24 This book spells out the theoretical structure methodology and philosophy of the science of autecology The autecological approach focuses on the interactions of individual organisms and their species specific adaptations with the spatio temporal dynamics of their environment as a basis for interpreting patterns of diversity and abundance in nature

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Table of Contents Primer Of Ecological Theory

1. Understanding the eBook Primer Of Ecological Theory
 - The Rise of Digital Reading Primer Of Ecological Theory
 - Advantages of eBooks Over Traditional Books
2. Identifying Primer Of Ecological Theory
 - 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 Primer Of Ecological Theory
 - User-Friendly Interface
4. Exploring eBook Recommendations from Primer Of Ecological Theory
 - Personalized Recommendations

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

- 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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