mathematics for ecologists

I. Chaston

Butterworths

Mathematics For Ecologists

Mark Kot

Mathematics For Ecologists:

Mathematics for Ecologists Ian Chaston,1971 **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 **Mathematics for Ecology and Environmental Sciences** Yasuhiro Takeuchi,Yoh Iwasa,Kazunori Sato,2007-01-19 Dynamical systems theory in mathematical biology has attracted much attention from many scientific directions The purpose of this volume is to discuss the many rich and interesting properties of dynamical systems that appear in ecology and environmental sciences The main topics include population dynamics with dispersal nonlinear discrete population dynamics structured population models mathematical models in evolutionary ecology stochastic spatial models in ecology game dynamics and the chemostat model Each chapter will serve to introduce students and scholars to the state of the art in an exciting area to present important new results and to inspire future contributions to mathematical modeling in ecology and environmental sciences **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   How to be a Quantitative Ecologist Jason Matthiopoulos,2011-04-25 Ecological research is becoming increasingly quantitative yet students often opt out of courses in mathematics and statistics unwittingly limiting their ability to carry out research in the future This textbook provides a practical introduction to quantitative ecology for students and practitioners who have realised that they need this opportunity The text is addressed to readers who haven t used mathematics since school who were perhaps more confused than enlightened by their undergraduate lectures in statistics and who have never used a computer for much more than word processing and data entry From this starting point it slowly but surely instils an understanding of mathematics statistics and programming sufficient for initiating research in ecology The book s practical value is enhanced by extensive use of biological examples and the computer language R for graphics programming and data analysis Key Features Provides a complete introduction to mathematics statistics and computing for ecologists Presents a wealth of ecological examples demonstrating the applied relevance of abstract mathematical concepts showing how a little technique can go a long way in answering interesting ecological questions Covers elementary topics including the rules of algebra logarithms geometry calculus descriptive statistics probability hypothesis testing and linear regression Explores more advanced topics including fractals non linear dynamical systems likelihood and Bayesian estimation generalised linear mixed and additive models and multivariate statistics R boxes provide step by step recipes for implementing the graphical and numerical techniques outlined in each section How to be a Quantitative Ecologist provides a comprehensive introduction to mathematics statistics and computing and is the ideal textbook for late undergraduate and postgraduate courses in environmental biology With a book like this there is no excuse for people to be afraid of maths and to be ignorant of what it can do Professor Tim Benton Faculty of Biological Sciences University of Leeds UK   Mathematical Modeling in Economics, Ecology and the Environment Natali Hritonenko,Yuri Yatsenko,2014-01-08 Updated to textbook form by popular demand this second edition discusses diverse mathematical models used in economics ecology and the environmental sciences with emphasis on control and optimization It is intended for graduate and upper undergraduate course use however applied mathematicians industry practitioners and a vast number of interdisciplinary academics will find the presentation highly useful Core topics of this text are Economic growth and technological development Population dynamics and human impact on the environment Resource extraction and scarcity Air and water contamination Rational management of the economy and environment Climate change and global dynamics The step by step approach taken is problem based and easy to follow The authors aptly demonstrate that the same

models may be used to describe different economic and environmental processes and that similar investigation techniques are applicable to analyze various models Instructors will appreciate the substantial flexibility that this text allows while designing their own syllabus Chapters are essentially self contained and may be covered in full in part and in any order Appropriate one and two semester courses include but are not limited to Applied Mathematical Modeling Mathematical Methods in Economics and Environment Models of Biological Systems Applied Optimization Models and Environmental Models Prerequisites for the courses are Calculus and preferably Differential Equations **An Introduction to Mathematical Ecology** E. C. Pielou,1969 Population dynamics Spatial patterns in one species populations Spatial relations of two or more species Many species populations *Mathematical Modeling for Epidemiology and Ecology* Glenn Ledder,2023-04-13 Mathematical Modeling for Epidemiology and Ecology provides readers with the mathematical tools needed to understand and use mathematical models and read advanced mathematical biology books It presents mathematics in biological contexts focusing on the central mathematical ideas and the biological implications with detailed explanations The author assumes no mathematics background beyond elementary differential calculus An introductory chapter on basic principles of mathematical modeling is followed by chapters on empirical modeling and mechanistic modeling These chapters contain a thorough treatment of key ideas and techniques that are often neglected in mathematics books such as the Akaike Information Criterion The second half of the book focuses on analysis of dynamical systems emphasizing tools to simplify analysis such as the Routh Hurwitz conditions and asymptotic analysis Courses can be focused on either half of the book or thematically chosen material from both halves such as a course on mathematical epidemiology The biological content is self contained and includes many topics in epidemiology and ecology Some of this material appears in case studies that focus on a single detailed example and some is based on recent research by the author on vaccination modeling and scenarios from the COVID 19 pandemic The problem sets feature linked problems where one biological setting appears in multi step problems that are sorted into the appropriate section allowing readers to gradually develop complete investigations of topics such as HIV immunology and harvesting of natural resources Some problems use programs written by the author for Matlab or Octave these combine with more traditional mathematical exercises to give students a full set of tools for model analysis Each chapter contains additional case studies in the form of projects with detailed directions New appendices contain mathematical details on optimization numerical solution of differential equations scaling linearization and sophisticated use of elementary algebra to simplify problems Elements of Mathematical Ecology Mark Kot,2001-07-19 An introduction to classical and modern mathematical models methods and issues in population ecology *Mathematical Modeling in Ecology* C. Jeffries,1989-01-01 **Mathematical Ecology** Thomas G. Hallam,Simon A. Levin,2012-12-06 There isprobably no more appropriate location to hold a course on mathematical ecology than Italy the countryofVito Volterra a founding father ofthe subject The Trieste 1982Autumn Course on Mathematical Ecology consisted of four weeksofvery concentrated scholasticism

and aestheticism The first weeks were devoted to fundamentals and principles ofmathematicalecology A nucleusofthe material from the lectures presented during this period constitutes this book The final week and a half of the Course was apportioned to the Trieste Research Conference on Mathematical Ecology whose proceedings have been published as Volume 54 Lecture Notes in Biomathematics Springer Verlag The objectivesofthe first portionofthe course wereambitious and probably unattainable Basic principles of the areas of physiological population com munitY and ecosystem ecology that have solid ecological and mathematical foundations were to be presented Classical terminology was to be introduced important fundamental topics were to be developed some past and some current problems of interest were to be presented and directions for possible research were to be provided Due to time constraints the coverage could not be encyclopedic many areas covered already have merited treatises of book length Consequently preliminary foundation material was covered in some detail but subject overviewsand area syntheseswerepresented when research frontiers were being discussed These lecture notes reflect this course philosophy   Mathematical Modelling in Ecology: Unveiling the Intricate Dynamics of Ecosystems Pasquale De Marco,2025-03-09 Mathematical Ecology Unveiling the Intricate Dynamics of Ecosystems is a groundbreaking exploration of the application of mathematics to ecological problems This comprehensive book provides a deep dive into the theoretical foundations practical applications and real world case studies that have shaped the field of mathematical ecology Within its pages readers will embark on a journey through the intricate workings of ecosystems gaining a profound understanding of the factors that drive population dynamics shape community interactions and determine ecosystem functioning Mathematical models are presented as powerful tools for unraveling the complexities of ecological systems providing insights that would otherwise remain hidden From population growth and decline to species coexistence and competitive exclusion Mathematical Ecology delves into the mathematical underpinnings of ecological phenomena It explores the mathematical analysis of food webs energy flow and nutrient cycling revealing the mechanisms that maintain ecosystem stability and resilience This book also delves into the cutting edge frontiers of mathematical ecology showcasing how mathematical models are being used to predict ecosystem responses to environmental change inform conservation and management strategies and address global challenges such as biodiversity loss and climate change With its clear and engaging writing style Mathematical Ecology is an essential resource for ecologists mathematicians and anyone seeking a deeper understanding of the intricate dynamics of ecosystems It is a testament to the power of mathematics as a tool for unlocking the secrets of the natural world If you like this book write a review   *A Course in Mathematical and Statistical Ecology* Anil Gore,S.A. Paranjpe,2000-12-31 A Course in Mathematical and Statistical Ecology   *Elementary Mathematical Ecology* John Vandermeer,1981-04-20 Introduces the mathematics needed for mathematical ecology Uses a class tested problem solving approach   **Mathematical Modeling in Economics, Ecology and the Environment** N.V. Hritonenko,Yuri P. Yatsenko,2013-04-17 The problems of interrelation between human economics and natural environment

include scientific technical economic demographic social political and other aspects that are studied by scientists of many specialities One of the important aspects in scientific study of environmental and ecological problems is the development of mathematical and computer tools for rational management of economics and environment This book introduces a wide range of mathematical models in economics ecology and environmental sciences to a general mathematical audience with no in depth experience in this specific area Areas covered are controlled economic growth and technological development world dynamics environmental impact resource extraction air and water pollution propagation ecological population dynamics and exploitation A variety of known models are considered from classical ones Cobb Douglass production function Leontief input output analysis Solow models of economic dynamics Verhulst Pearl and Lotka Volterra models of population dynamics and others to the models of world dynamics and the models of water contamination propagation used after Chemobyl nuclear catastrophe Special attention is given to modelling of hierarchical regional economic ecological interaction and technological change in the context of environmental impact Xlll XIV Construction of Mathematical Models   The Philosophy of Ecology David R. Keller,Frank B. Golley,2000 This is the first introductory anthology on the philosophy of ecology edited by an ecologist and a philosopher It illustrates the range of philosophical approaches available to ecologists and provides a basis for understanding the thinking on which many of today s environmental ideas are founded Collectively these seminal readings make a powerful statement on the value of ecological knowledge and thinking in alleviating the many problems of modern industrial civilization Issues covered include the challenges of defining scientific ecology tracing its genealogy and distinguishing the science from various forms of ecological like thinking the ontology of ecological entities and processes selected concepts of community stability diversity and niche the methodology of ecology rationalism and empiricism reductionism and holism the significance of evolutionary law for ecological science   A Biologist's Guide to Mathematical Modeling in Ecology and Evolution Sarah P. Otto,Troy Day,2011-09-19 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   **Matrices and Graphs Stability Problems in Mathematical Ecology** D. Logofet,2018-02-01 Intuitive ideas of stability in dynamics of a biological population community or ecosystem can be formalized in the framework of corresponding mathematical models These are often represented by systems of ordinary differential equations or difference equations Matrices and Graphs covers achievements in the field using concepts from matrix theory and graph theory The book effectively surveys applications of mathematical results pertinent to issues of theoretical and applied ecology The only mathematical prerequisite for using Matrices and Graphs is a working knowledge of linear algebra and matrices The book is ideal for biomathematicians ecologists and applied mathematicians doing research on dynamic behavior of model populations and communities consisting of multi component systems It will also be valuable as a text for a graduate level topics course in applied math or mathematical ecology   Applied Mathematical Ecology Simon A. Levin,Thomas G. Hallam,Louis J. Gross,2012-12-06 The Second Autumn Course on Mathematical Ecology was held at the Intern ational Centre for Theoretical Physics in Trieste Italy in November and December of 1986 During the four year period that had elapsed since the First Autumn Course on Mathematical Ecology sufficient progress had been made in applied mathemat ical ecology to merit tilting the balance maintained between theoretical aspects and applications in the 1982 Course toward applications The course format while similar to that of the first Autumn Course on Mathematical Ecology consequently focused upon applications of mathematical ecology Current areas of application are almost as diverse as the spectrum covered by ecology The topiys of this book reflect this diversity and were chosen because of perceived interest and utility to developing countries Topical lectures began with foundational material mostly derived from Math ematical Ecology An Introduction a compilation of the lectures of the 1982 course published by Springer Verlag in this series Volume 17 and when possible progressed to the frontiers of research In addition to the course lectures workshops were arranged for small groups to supplement and enhance the learning experience Other perspectives were provided through presentations by course participants and speakers at the associated Research Conference Many of the research papers are in a companion volume Mathematical Ecology Proceedings Trieste 1986 published by World Scientific Press in 1988 This book is structured primarily by application area Part II provides an introduction to mathematical and statistical applications in resource management   **Mathematical Modeling in Ecology** C. Jeffries,2012-12-06 Mathematical ecology is the application of mathematics to describe and understand ecosystems There are two main approaches One is to describe natural communities and induce statistical patterns or relationships which should generally occur However this book is devoted entirely to

introducing the student to the second approach to study deterministic mathematical models and on the basis of mathematical results on the models to look for the same patterns or relationships in nature This book is a compromise between three competing desiderata It seeks to maximize the generality of the models constrain the models to behave realistically that is to exhibit stability and other features and minimize the difficulty of presentations of the models The ultimate goal of the book is to introduce the reader to the general mathematical tools used in building realistic ecosystem models Just such a model is presented in Chapter Nine The book should also serve as a stepping stone both to advanced mathematical works like Stability of Biological Communities by Yu M Svirezhev and D O Logofet Mir Moscow 1983 and to advanced modeling texts like Freshwater Ecosystems by M Straskraba and A H Gnauch Elsevier Amsterdam 1985

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