

# mathematics for ecologists

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# Mathematics For Ecologists

**Yasuhiro Takeuchi, Yoh Iwasa, Kazunori  
Sato**



## 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.

*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 realized 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 instills 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 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 **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 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

**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

*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 is probably no more appropriate location to hold a course on mathematical ecology than Italy the country of Vito Volterra a founding father of the subject The Trieste 1982 Autumn Course on Mathematical Ecology consisted of four weeks of very concentrated scholasticism and aestheticism The first weeks were devoted to fundamentals and principles of mathematical ecology A nucleus of the 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 objectives of the first portion of the course were ambitious and probably unattainable Basic principles of the areas of physiological population community 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 overviews and area syntheses were represented when research frontiers were being discussed These lecture notes reflect this course philosophy

**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

*Elementary Mathematical Ecology* John Vandermeer, 1981-04-20 Introduces the mathematics needed for mathematical ecology Uses a class tested problem solving approach

**A Course in Mathematical and Statistical Ecology** Anil Gore, S.A. Paranjpe, 2000-12-31 A Course in Mathematical and Statistical Ecology

*Mathematical Modeling in Ecology* Clark Jeffries, 1989-01-01 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 Svirzhev 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

*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

**Introduction to Applied Mathematics for Environmental Science** David F. Parkhurst, 2007-12-06 For many years first as a student and later as a teacher I have observed graduate students in ecology and other environmental sciences who had been required as undergraduates to take calculus courses Those courses have often emphasized how to prove theorems about the beautiful logical structure of calculus but have neglected applications Most of the time the students have come out of such courses with little or no appreciation of how to apply calculus in their own work Based on these observations I developed a course designed in part to re-teach calculus as an everyday tool in ecology and other environmental sciences I emphasized derivations working with story problems sometimes quite complex ones in that course and now in this book The present textbook has developed out of my notes for that course Its basic purpose is to describe various types of mathematical structures and how they can be applied in environmental science Thus linear and non linear algebraic equations derivatives and integrals and ordinary and partial differential equations are the basic kinds of structures or types of mathematical models discussed For each the discussion follows a pattern something like this 1 An example of the type of structure as applied to environmental science is given 2 Next a description of the structure is presented 3 Usually this is followed by other examples of how the structure arises in environmental science 4 The analytic methods of solving and learning from the structure are discussed

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 International 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 mathematical 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 topics 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 Mathematical 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      **Applied Mathematical Ecology** Simon A Levin, Thomas G Hallam, Louis J Gross, 1989-10-19      **Eco-Stats: Data Analysis in Ecology** David I Warton, 2022-08-10 This book introduces ecologists to the wonderful world of modern tools for data analysis especially multivariate analysis For biologists with relatively little prior knowledge of statistics it introduces a modern advanced approach to data analysis in an intuitive and accessible way The book begins by reviewing some core principles in statistics and relates common methods to the linear model a general framework for modeling data where the response is continuous This is then extended to discrete data using generalized linear models to designs with multiple sampling levels via mixed models and to situations where there are multiple response variables via model based approaches to multivariate analysis Along the way there is an introduction to important principles in model selection adaptations of the model to handle non linearity and cyclical variables dependence due to structured correlation in time space or phylogeny and design based techniques for inference that can relax some of the modelling assumptions It concludes with a range of advanced topics in model based multivariate analysis relevant to the modern ecologist including fourth corner latent variable and copula models Examples span a variety of applications including environmental monitoring species distribution modeling global scale surveys of plant traits and small field experiments on biological controls Math Boxes throughout the book explain some of the core ideas mathematically for readers who want to delve deeper and R code is used throughout Accompanying code data and solutions to exercises can be found in the ecostats R package on CRAN

**Multivariate Statistics for Wildlife and Ecology Research** Kevin McGarigal, Samuel A. Cushman, Susan Stafford, 2013-12-01 Wildlife researchers and ecologists make widespread use of multivariate statistics in their studies With its focus on the practical application of the techniques of multivariate statistics this book shapes the powerful tools of statistics for the specific needs of ecologists and makes statistics more applicable to their course of study Multivariate Statistics for Wildlife and Ecology Research gives the reader a solid conceptual understanding of the role of multivariate statistics in ecological applications and the relationships among various techniques while avoiding detailed mathematics and underlying theory More important the reader will gain insight into the type of research questions best handled by each technique and the important considerations in applying each one Whether used as a textbook for specialized courses or as a supplement to general statistics texts the book emphasizes those techniques that students of ecology and natural resources most need to understand and employ in their research Detailed examples use real wildlife data sets analyzed using the SAS statistical software program The book is specifically targeted for upper division and graduate students in wildlife biology forestry and ecology and for professional wildlife scientists and natural resource managers but it will be valuable to researchers in any of the biological sciences



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