# mathematics for ecologists I. Chaston



Butterworths

# **Mathematics For Ecologists**

**Pasquale De Marco** 

# **Mathematics For Ecologists:**

Mathematics for Ecologists Ian Chaston, 1971 **Mathematical Ecology of Populations and Ecosystems** John Pastor, 2008-08-11 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 An Introduction to Mathematical

Ecology E. C. Pielou, 1969 Population dynamics Spatial patterns in one species populations Spatial relations of two or more Mathematics for Ecology and Environmental Sciences Yasuhiro Takeuchi, Yoh species Many species populations 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 A Course in Mathematical and Statistical Ecology Anil Gore, S.A. Paranipe.2000-12-31 A Course in Mathematical and Statistical 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 ob served graduate students in ecology and other environmental sci ences who had been required as undergraduates to take calculus courses Those courses have often emphasized how to prove theo rems about the beautiful logical structure of calculus but have ne glected 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 de signed 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 apphed in environmental science Thus linear and non linear algebraic equations derivatives and in tegrals 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

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 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 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 overviews and area syntheses were presented when research frontiers were being discussed These lecture notes reflect this course philosophy 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

Elementary Mathematical Ecology John

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

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

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 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 Mathematical Ecology S.A. Levin, T.G. Hallam, 2013-03-13 **Applied Mathematical Ecology** Simon A Levin, Thomas G Hallam, Louis J Gross, 1989-10-19 A Course in Mathematical and Statistical Ecology Anil Gore, S.A. Paranipe, 2013-04-17 As the world enters the new millennium mankind faces a series of new prob lems many of them created by man himself These include overpopulation air and water pollution global warming accumulation of greenhouse gases darnage to the ozone layer and loss of biodiversity Perhaps these problems were around even earlier in an incipient stage but they have now assumed global proportions and are uppermost in the minds of all A natural con sequence is enhanced interest in sciences connected with these problems Ecology is a field that is immensely useful in understanding many of them In the seventies nature conservation became a concern of wide sections of society well beyond the small group of expert ecologists Species extinction and depletion of biological resources were seen as major threats to human welfare It was therefore natural for scientists from different disci plines to seek reasons behind these developments We were no exceptions and when opportunity to interact with ecologists as statistreal consultants came we found ourselves reading more and more of ecology and evolution ary biology Several years ago we proposed starting of an elective one semester course on statistical ecology for graduate students of statistics of Pune University A Course in Mathematical and Statistical Ecology Anil Gore, S. A. Paranjpe, 2014-01-15 **Elements of Mathematical Ecology** Mark Kot, 2001-07-19 An introduction to classical and modern mathematical models methods and issues in population ecology The Background of Ecology Robert P. McIntosh, 1986-09-26 The Background of Ecology is a critical and up to date review of the origins and development of ecology with emphasis on the major concepts and theories shared in the ecological traditions of plant and animal ecology limnology and oceanography The work traces developments in each of these somewhat isolated areas and identifies where possible parallels or convergences among them Dr McIntosh describes how ecology emerged as a science in the context of nineteenth century natural histor

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