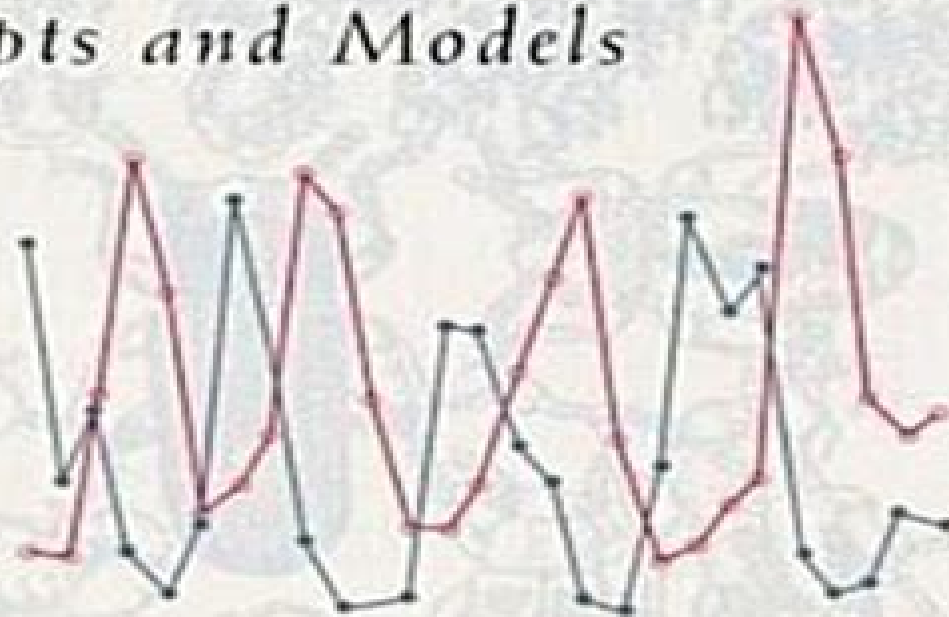


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Concepts and Models



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Mathematical Models in Biology Leah Edelstein-Keshet, 1988-01-01 Mathematical Models in Biology is an introductory

book for readers interested in biological applications of mathematics and modeling in biology A favorite in the mathematical biology community it shows how relatively simple mathematics can be applied to a variety of models to draw interesting conclusions Connections are made between diverse biological examples linked by common mathematical themes A variety of discrete and continuous ordinary and partial differential equation models are explored Although great advances have taken place in many of the topics covered the simple lessons contained in this book are still important and informative Audience the book does not assume too much background knowledge essentially some calculus and high school algebra It was originally written with third and fourth year undergraduate mathematical biology majors in mind however it was picked up by beginning graduate students as well as researchers in math and some in biology who wanted to learn about this field

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

[Models for Ecological Data](#) James S. Clark, 2020-10-06 The environmental sciences are undergoing a revolution in the use of models and data Facing ecological data sets of unprecedented size and complexity environmental scientists are struggling to understand and exploit powerful new statistical tools for making sense of ecological processes In *Models for Ecological Data* James Clark introduces ecologists to these modern methods in modeling and computation Assuming only basic courses in calculus and statistics the text introduces readers to basic maximum likelihood and then works up to more advanced topics in Bayesian modeling and computation Clark covers both classical statistical approaches and powerful new computational tools and

describes how complexity can motivate a shift from classical to Bayesian methods Through an available lab manual the book introduces readers to the practical work of data modeling and computation in the language R Based on a successful course at Duke University and National Science Foundation funded institutes on hierarchical modeling Models for Ecological Data will enable ecologists and other environmental scientists to develop useful models that make sense of ecological data Consistent treatment from classical to modern Bayes Underlying distribution theory to algorithm development Many examples and applications Does not assume statistical background Extensive supporting appendixes Lab manual in R is available separately

Mathematical Models of Social Evolution Richard McElreath, Robert Boyd, 2008-09-15 Over the last several decades mathematical models have become central to the study of social evolution both in biology and the social sciences But students in these disciplines often seriously lack the tools to understand them A primer on behavioral modeling that includes both mathematics and evolutionary theory Mathematical Models of Social Evolution aims to make the student and professional researcher in biology and the social sciences fully conversant in the language of the field Teaching biological concepts from which models can be developed Richard McElreath and Robert Boyd introduce readers to many of the typical mathematical tools that are used to analyze evolutionary models and end each chapter with a set of problems that draw upon these techniques Mathematical Models of Social Evolution equips behaviorists and evolutionary biologists with the mathematical knowledge to truly understand the models on which their research depends Ultimately McElreath and Boyd's goal is to impart the fundamental concepts that underlie modern biological understandings of the evolution of behavior so that readers will be able to more fully appreciate journal articles and scientific literature and start building models of their own

Dynamical Systems with Applications using MATLAB® Stephen Lynch, 2014-07-22 This textbook now in its second edition provides a broad introduction to both continuous and discrete dynamical systems the theory of which is motivated by examples from a wide range of disciplines It emphasizes applications and simulation utilizing MATLAB Simulink the Image Processing Toolbox and the Symbolic Math toolbox including MuPAD Features new to the second edition include sections on series solutions of ordinary differential equations perturbation methods normal forms Gr bner bases and chaos synchronization chapters on image processing and binary oscillator computing hundreds of new illustrations examples and exercises with solutions and over eighty up to date MATLAB program files and Simulink model files available online These files were voted MATLAB Central Pick of the Week in July 2013 The hands on approach of Dynamical Systems with Applications using MATLAB Second Edition has minimal prerequisites only requiring familiarity with ordinary differential equations It will appeal to advanced undergraduate and graduate students applied mathematicians engineers and researchers in a broad range of disciplines such as population dynamics biology chemistry computing economics nonlinear optics neural networks and physics Praise for the first edition Summing up it can be said that this text allows the reader to have an easy and quick start to the huge field of dynamical systems theory MATLAB SIMULINK facilitate this approach under

the aspect of learning by doing OR News Operations Research Spectrum The MATLAB programs are kept as simple as possible and the author's experience has shown that this method of teaching using MATLAB works well with computer laboratory classes of small sizes I recommend Dynamical Systems with Applications using MATLAB as a good handbook for a diverse readership graduates and professionals in mathematics physics science and engineering Mathematica **A Course in Mathematical Biology** Gerda de Vries, Thomas Hillen, Mark Lewis, Johannes M?ller, Birgitt Sch?nfisch, 2006-07-01 This is the only book that teaches all aspects of modern mathematical modeling and that is specifically designed to introduce undergraduate students to problem solving in the context of biology Included is an integrated package of theoretical modeling and analysis tools computational modeling techniques and parameter estimation and model validation methods with a focus on integrating analytical and computational tools in the modeling of biological processes Divided into three parts it covers basic analytical modeling techniques introduces computational tools used in the modeling of biological problems and includes various problems from epidemiology ecology and physiology All chapters include realistic biological examples including many exercises related to biological questions In addition 25 open ended research projects are provided suitable for students An accompanying Web site contains solutions and a tutorial for the implementation of the computational modeling techniques Calculations can be done in modern computing languages such as Maple Mathematica and MATLAB

Introduction to Modeling in Wildlife and Resource Conservation Norman Owen-Smith, 2009-03-12 This book provides students with the skills to develop their own models for application in conservation biology and wildlife management Assuming no special mathematical expertise the computational models used are kept simple and show how to develop models in both spreadsheet and programming language format Develops thought provoking applications which emphasize the value of modeling as a learning tool Examines basic descriptive equations matrix representations consumer resources interactions applications in simulation scenarios harvesting population viability metapopulation dynamics disease outbreaks vegetation stage and state dynamics habitat suitability assessment and model selection statistics Includes a wide range of examples relating to birds fish plants and large African mammals **Methods in Comparative Plant Population Ecology** David Gibson, 2014-10-16 The field of plant population ecology has advanced considerably in the last decade since the first edition was published In particular there have been substantial and ongoing advances in statistics and modelling applications in population ecology as well as an explosion of new techniques reflecting the availability of new technologies e g affordable and accurate Global Positioning Systems and advances in molecular biology This new edition has been updated and revised with more recent examples replacing older ones where appropriate The book's trademark question driven approach has been maintained and some important topics such as the metapopulation concept which are missing entirely from the current edition are now included throughout the text Ecological Models and Data in R Benjamin M. Bolker, 2008-07-21

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Dynamical Systems with Applications using Maple™ Stephen Lynch, 2009-12-23 Since the first edition of this book was published in 2001 the algebraic computation package Maple has evolved from Maple V into Maple 13 Accordingly the second edition has been thoroughly updated and new material has been added In this edition there are many more applications examples and exercises all with solutions and new chapters on neural networks and simulation have been added There are also new sections on perturbation methods normal forms Gröbner bases and chaos synchronization This book provides an introduction to the theory of dynamical systems with the aid of the Maple algebraic manipulation package It is written for both senior undergraduates and graduate students The first part of the book deals with continuous systems using ordinary differential equations Chapters 1-10 the second part is devoted to the study of discrete dynamical systems Chapters 11-15 and Chapters 16-18 deal with both continuous and discrete systems Chapter 19 lists examination type questions used by the author over many years one set to be used in a computer laboratory with access to Maple and the other set to be used without access to Maple Chapter 20 lists answers to all of the exercises given in the book It should be pointed out that dynamical systems theory is not limited to these topics but also encompasses partial differential equations integral and integro-differential equations stochastic systems and time delay systems for instance References 1-5 given at the end of the Preface provide more information for the interested reader

Fishery Ecosystem Dynamics Michael J. Fogarty, Jeremy S. Collie, 2020-07-24 Fisheries supply a critically important ecosystem service by providing over three billion people with nearly 20% of their daily animal protein intake Yet one third of the world's fish stocks are currently harvested at unsustainable levels Calls for the adoption of more holistic approaches to management that incorporate broader ecosystem principles are now being translated into action worldwide to meet this challenge The transition from concept to implementation is accompanied by the need to further establish and evaluate the analytical framework for Ecosystem Based Fishery Management EBFM The objectives of this novel textbook are to provide an introduction to this topic for the next generation of scientists who will carry on this work to illuminate the deep and often underappreciated connections between basic ecology and fishery science and to explore the implications of these linkages in formulating management strategies for the 21st century Fishery Ecosystem Dynamics will be of great use to graduate level students as well as academic researchers and professionals both governmental and NGO in the fields of fisheries ecology and management

Dynamic Energy Budget Theory for Metabolic Organisation S. A. L. M. Kooijman, 2010 The Dynamic Energy Budget theory unifies the commonalities between organisms and links different levels of biological organisation

Human Evolutionary Demography Oskar Burger, Ronald Lee, Rebecca Sear, 2024-06-14 Human evolutionary demography is an emerging field blending natural science with social science This edited volume provides a much needed interdisciplinary introduction to the

field and highlights cutting edge research for interested readers and researchers in demography the evolutionary behavioural sciences biology and related disciplines By bridging the boundaries between social and biological sciences the volume stresses the importance of a unified understanding of both in order to grasp past and current demographic patterns Demographic traits and traits related to demographic outcomes including fertility and mortality rates marriage parental care menopause and cooperative behavior are subject to evolutionary processes Bringing an understanding of evolution into demography therefore incorporates valuable insights into this field just as knowledge of demography is key to understanding evolutionary processes By asking questions about old patterns from a new perspective the volume composed of contributions from established and early career academics demonstrates that a combination of social science research and evolutionary theory offers holistic understandings and approaches that benefit both fields Human Evolutionary Demography introduces an emerging field in an accessible style It is suitable for graduate courses in demography as well as upper level undergraduates Its range of research is sure to be of interest to academics working on demographic topics anthropologists sociologists demographers natural scientists working on evolutionary processes and disciplines which cross cut natural and social science such as evolutionary psychology human behavioral ecology cultural evolution and evolutionary medicine As an accessible introduction it should interest readers whether or not they are currently familiar with human evolutionary demography

Population Growth: Observations and Models Maxime Seveleu-Dubrovnik, William R. Nelson, 2016-05-15 Modeling as used in social science and in particular in demography is a complicated process Modeling population dynamics has traditionally been the central branch of mathematical biology and counts more than 210 years of history notwithstanding the recent expansion of this science's scope The first principle of population dynamics is widely regarded as the exponential law of Malthus as modeled by the Malthusian growth model The early period was dominated by demographic studies such as the work of Benjamin Gompertz and Pierre François Verhulst in the early 19th century who refined and adjusted the Malthusian demographic model In this volume dedicated to the 250th anniversary of Thomas R Malthus we publish several modern analyses that illustrate the honored place the Malthus's work occupies in the science of demographic modeling Editors Maxime Seveleu-Dubrovnik and William R Nelson Gender-structured Population Modeling M. Iannelli, M. Martcheva, F. A. Milner, 2005-04-01 This book gives a unified presentation of and mathematical framework for modeling population growth by couple formation summarizing both past and present modeling results It provides results on model analysis gives an up to date review of mathematical demography discusses numerical methods and puts deterministic modeling of human populations into historical perspective **Population Ecology in Practice** Dennis L. Murray, Brett K. Sandercock, 2020-02-10 A synthesis of contemporary analytical and modeling approaches in population ecology The book provides an overview of the key analytical approaches that are currently used in demographic genetic and spatial analyses in population ecology The chapters present current problems introduce advances in analytical methods and models and

demonstrate the applications of quantitative methods to ecological data The book covers new tools for designing robust field studies estimation of abundance and demographic rates matrix population models and analyses of population dynamics and current approaches for genetic and spatial analysis Each chapter is illustrated by empirical examples based on real datasets with a companion website that offers online exercises and examples of computer code in the R statistical software platform Fills a niche for a book that emphasizes applied aspects of population analysis Covers many of the current methods being used to analyse population dynamics and structure Illustrates the application of specific analytical methods through worked examples based on real datasets Offers readers the opportunity to work through examples or adapt the routines to their own datasets using computer code in the R statistical platform Population Ecology in Practice is an excellent book for upper level undergraduate and graduate students taking courses in population ecology or ecological statistics as well as established researchers needing a desktop reference for contemporary methods used to develop robust population assessments

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