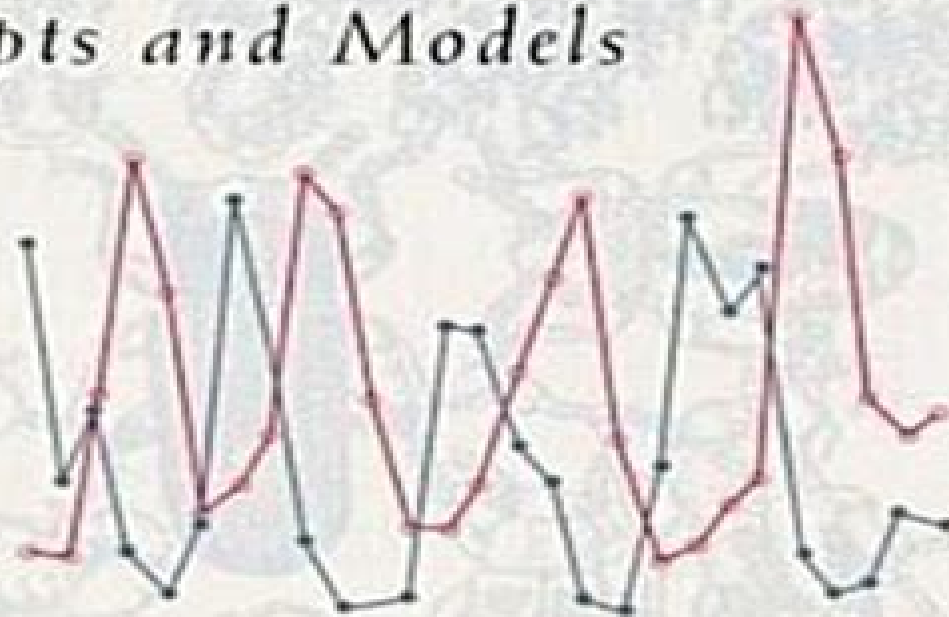


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POPULATION BIOLOGY

Concepts and Models



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Population Biology Concepts And Models

Alan Hastings



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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

Ecological Models and Data in R Benjamin M. Bolker, 2008-07-21 Introduction and background Exploratory data analysis and graphics Deterministic functions for ecological modeling Probability and stochastic distributions for ecological modeling Stochastic simulation and power analysis Likelihood and all that Optimization and all that Likelihood examples Standar statistics revisited Modeling variance Dynamic models

Dynamical Systems with Applications Using MATLAB® Stephen Lynch, 2025-09-09 This textbook now in its third edition provides a broad and accessible 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 the Symbolic Math Toolbox and the Deep Learning Toolbox The text begins with a tutorial introduction to MATLAB that assumes no prior programming knowledge Discrete systems are covered in the first part after which the second part explores the study of continuous systems using delay ordinary and partial differential equations The third part considers chaos control and synchronization binary oscillator computing Simulink and the Deep Learning Toolbox A final chapter provides examination and coursework type MATLAB questions for use by instructors and students For the Third Edition all the material has been thoroughly updated in line with the most recent version of MATLAB R2025a New chapters have been added on artificial

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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 *Dynamic Energy and Mass Budgets in Biological Systems* S. A. L. M. Kooijman, 2000-03-23 The Dynamic Energy Budget theory unifies the commonalities between organisms as prescribed by the implications of energetics and links different levels of biological organisation cells organisms and populations The theory presents simple mechanistic rules that describe the uptake and use of energy and nutrients and the consequences for physiological organization throughout an organism's life cycle All living organisms are covered in a single quantitative

framework the predictions of which are tested against a variety of experimental results at a range of levels of organisation The theory explains many general observations such as the body size scaling relationships of certain physiological traits and provides a theoretical underpinning to the method of indirect calorimetry In each case the theory is developed in elementary mathematical terms but a more detailed discussion of the methodological aspects of mathematical modelling is also included

Landscape Ecology in Theory and Practice Monica G. Turner, Robert H. Gardner, Robert V. O'Neill, 2007-05-08 An ideal text for students taking a course in landscape ecology The book has been written by very well known practitioners and pioneers in the new field of ecological analysis Landscape ecology has emerged during the past two decades as a new and exciting level of ecological study Environmental problems such as global climate change land use change habitat fragmentation and loss of biodiversity have required ecologists to expand their traditional spatial and temporal scales and the widespread availability of remote imagery geographic information systems and desk top computing has permitted the development of spatially explicit analyses In this new text book this new field of landscape ecology is given the first fully integrated treatment suitable for the student Throughout the theoretical developments modeling approaches and results and empirical data are merged together so as not to introduce barriers to the synthesis of the various approaches that constitute an effective ecological synthesis The book also emphasizes selected topic areas in which landscape ecology has made the most contributions to our understanding of ecological processes as well as identifying areas where its contributions have been limited Each chapter features questions for discussion as well as recommended reading

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

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 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 Fran ois 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

Wildlife Demography John R. Skalski, Kristin E. Ryding, Joshua Millspaugh, 2010-07-20 Wildlife Demography compiles the multitude of available estimation techniques based on sex and age data and presents these varying techniques in one organized unified volume Designed to guide researchers to the most appropriate estimator based upon their particular data set and the desired level of study precision this book provides quantitative consideration statistical models estimator variance assumptions and examples of use The authors focus on estimation techniques using sex and age ratios because this data is relatively easy to collect and commonly used by wildlife management Applicable to a wide array of wildlife species including game and non game birds and mammals Features more than 100 annotated examples illustrating application of statistical methods Includes more than 640 references of the analysis of nontagging data and the factors that may influence interpretation Derives historical and ad hoc demographic methods in a modern statistical framework

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 *Official Gazette*

Philippines,2011

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