

Modelling Fluctuating Populations



R. M. Nisbet
and **W. C. S. Gurney**

Modelling Fluctuating Populations

Russell J. Schmitt, Craig W. Osenberg



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Mathematical Models in Population Biology and Epidemiology Fred Brauer, Carlos Castillo-Chavez, 2011-11-09 The goal of this book is to search for a balance between simple and analyzable models and unsolvable models which are capable of addressing important questions on population biology Part I focusses on single species simple models including those which have been used to predict the growth of human and animal population in the past Single population models are in some sense the building blocks of more realistic models the subject of Part II Their role is fundamental to the study of ecological and demographic processes including the role of population structure and spatial heterogeneity the subject of Part III This book which will include both examples and exercises is of use to practitioners graduate students and scientists working in the field

Stochastic Population Models James H. Matis, Thomas R. Kiffe, 2012-12-06 This monograph has been heavily influenced by two books One is Ren shaw s 82 work on modeling biological populations in space and time It was published as we were busily engaged in modeling African bee dispersal and provided strong affirmation for the stochastic basis for our ecological modeling efforts The other is the third edition of Jacquez 28 classic book on compartmental analysis He reviews stochastic compartmental analysis and utilizes generating functions in this edition to derive many useful results We interpreted Jacquez use of generating functions as a message that the day had come for modeling practioners to consider using this powerful approach as a model building tool We were inspired by the idea of using generating functions and related methods for two purposes The first is to integrate seamlessly our previous research centering in stochastic com partmental modeling with our more recent research focusing on stochastic population modeling The second related purpose is to present some key research results of practical application in a natural user friendly way to the large user communities of compartmental and biological population modelers One general goal of this monograph is to make a case for the practical utility of the various stochastic population models In accordance with this objective we have chosen to illustrate the various stochastic models using four primary applications described in Chapter 2 In so doing this mono graph is based largely on our own published work

Spatiotemporal Models of Population and Community Dynamics T. Czaran, 1998 This book presents a comprehensive typology and a comprehensible description of spatiotemporal models used in population dynamics The main types included are reaction diffusion systems patch models matapopulation approaches host parasitoid models cellular automata interacting particle systems tessellations and distance models The models are introduced through examples and with informative verbal explanations to help understanding Some of the cellular automation examples are models not yet published elsewhere Possible extensions of certain model types are

suggested **Data-driven Modelling of Structured Populations** Stephen P. Ellner, Dylan Z. Childs, Mark Rees, 2016-05-13 This book is a How To guide for modeling population dynamics using Integral Projection Models IPM starting from observational data It is written by a leading research team in this area and includes code in the R language in the text and online to carry out all computations The intended audience are ecologists evolutionary biologists and mathematical biologists interested in developing data driven models for animal and plant populations IPMs may seem hard as they involve integrals The aim of this book is to demystify IPMs so they become the model of choice for populations structured by size or other continuously varying traits The book uses real examples of increasing complexity to show how the life cycle of the study organism naturally leads to the appropriate statistical analysis which leads directly to the IPM itself A wide range of model types and analyses are presented including model construction computational methods and the underlying theory with the more technical material in Boxes and Appendices Self contained R code which replicates all of the figures and calculations within the text is available to readers on GitHub Stephen P Ellner is Horace White Professor of Ecology and Evolutionary Biology at Cornell University USA Dylan Z Childs is Lecturer and NERC Postdoctoral Fellow in the Department of Animal and Plant Sciences at The University of Sheffield UK Mark Rees is Professor in the Department of Animal and Plant Sciences at The University of Sheffield UK *Modelling Biological Populations in Space and Time* Eric Renshaw, 1993-08-26 This volume develops a unifying approach to population studies emphasising the interplay between modelling and experimentation Throughout mathematicians and biologists are provided with a framework within which population dynamics can be fully explored and understood Aspects of population dynamics covered include birth death and logistic processes competition and predator prey relationships chaos reaction time delays fluctuating environments spatial systems velocities of spread epidemics and spatial branching structures Both deterministic and stochastic models are considered Whilst the more theoretically orientated sections will appeal to mathematical biologists the material is presented so that readers with little mathematical expertise can bypass these without losing the main flow of the text **Finite-Size Effects in Stochastic Models of Population Dynamics: Applications to Biomedicine and Biology** Francesca Di Patti, 2010 Population dynamics constitutes a widespread branch of investigations which finds important applications within the realm of life science The classical deterministic macroscopic approach aims at characterizing the time evolution of families of homologous entities so to unravel the global mechanisms which drive their dynamics As opposed to this formulation a microscopic level of modeling can be invoked which instead focuses on the explicit rules governing the interactions among individuals A viable tool that enables to bridge the gap between the two approaches is the van Kampen s system size expansion In this thesis we use this method to show how the finite size effects accounted by the microscopic level might significantly alter the dynamics of biological phenomena *Population Dynamics and the Tribolium Model: Genetics and Demography* Robert F. Costantino, Robert A. Desharnais, 2012-12-06 The study of populations is becoming increasingly

focused on dynamics We believe there are two reasons for this trend The first is the impact of nonlinear dynamics with its exciting ideas and colorful language bifurcations domains of attraction chaos fractals strange attractors Complexity which is so very much a part of biology now seems to be also a part of mathematics A second trend is the accessibility of the new concepts The barriers to communication between theorist and experimentalist seemless impenetrable The active participation of the experimentalist means that the theory will obtain substance Our role is the application of the theory of dynamics to the analysis of biological populations We began our work early in 1979 by writing an ordinary differential equation for the rate of change in adult numbers which was based on an equilibrium model proposed a decade earlier During the next few months we filled our notebooks with straightforward deductions from the model and its associated biological implications Slowly some of the biological observations were explained and papers followed on a variety of topics genetic and demographic stability stationary probability distributions for population size population growth as a birth death process natural selection and density dependent population growth genetic disequilibrium and the stationary stochastic dynamics of adult numbers

Estimation and Analysis of Insect Populations Lyman L. McDonald, Bryan F.J. Manly, Jeffrey A. Lockwood, Jesse A. Logan, 2012-12-06 The papers in this volume were presented at a symposium workshop on The Estimation and Analysis of Insect Populations that was held at the University of Wyoming Laramie in January 1988 The meeting was organized with financial support from the United States New Zealand Cooperative Science Program and the University of Wyoming The purpose was to bring together approximately equal numbers of quantitative biologists and biometricians in order to 1 provide a synthesis and evaluation of currently available methods for modeling and estimating parameters of insect population and to 2 stimulate research into new methods where this is appropriate The symposium workshop attracted 46 participants There were 35 papers presented in four subject areas analysis of stage frequency data modeling of population dynamics analysis of spatial data and general sampling and estimation methods New results were presented in all these areas All except one of the papers is included in the present volume

An Introduction to Structured Population Dynamics J. M. Cushing, 1998-01-01 This monograph introduces the theory of structured population dynamics and its applications focusing on the asymptotic dynamics of deterministic models

Insect Populations In theory and in practice Jack P. Dempster, Ian F.G. McLean, 2012-12-06 Insects are by far the largest group of animals on Earth with over a million described species and they occupy a wide range of ecological niches they may be herbivores predators parasites or decomposers Some are of particular economic importance as pests of agriculture and forestry as vectors of animal and human disease or as species of interest to wildlife conservation Thus an understanding of the processes determining their numbers is of considerable practical value Entomologists have played a leading role in developing a theoretical basis to Population Ecology but we still do not have adequate experimental and observational proof for many of the theoretical ideas that have been proposed As a result the subject has been beset with arguments for more than 50 years This volume attempts to reconcile

some of these controversies while also reviewing the current state of our knowledge The editors have drawn together an international list of contributors whose views reflect a range of opinions on how natural populations are stabilised They have succeeded in producing a book that both covers the main alternative views in population theory and contains some of the best recent field studies of insect populations This Royal Entomological Society Symposium volume will be of great interest to all entomologists and ecologists particularly those who wish to know more about Population Dynamics

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

Ecological Modeling in Risk Assessment Robert A. Pastorok, Steven M. Bartell, Scott Ferson, Lev R. Ginzburg, 2016-04-19 Expanding the risk assessment toolbox this book provides a comprehensive and practical evaluation of specific ecological models for potential use in risk assessment Ecological Modeling in Risk Assessment Chemical Effects on Populations Ecosystems and Landscapes goes beyond current risk assessment practices for toxic chemicals as applied to individual organism endpoints to describe ecological effects models useful at the population ecosystem and landscape levels The authors demonstrate the utility of a set of ecological effects models eventually improving the ecological relevance of risk assessments and making data collection more cost effective

Detecting Ecological Impacts Russell J. Schmitt, Craig W. Osenberg, 1996-01-17 Detecting Ecological Impacts Concepts and Applications in Coastal Habitats focuses on crucial aspects of detecting local and regional impacts that result from human activities Detection and characterization of ecological impacts require scientific approaches that can reliably

separate the effects of a specific anthropogenic activity from those of other processes This fundamental goal is both technically and operationally challenging Detecting Ecological Impacts is devoted to the conceptual and technical underpinnings that allow for reliable estimates of ecological effects caused by human activities An international team of scientists focuses on the development and application of scientific tools appropriate for estimating the magnitude and spatial extent of ecological impacts The contributors also evaluate our current ability to forecast impacts Some of the scientific legal and administrative constraints that impede these critical tasks also are highlighted Coastal marine habitats are emphasized but the lessons and insights have general application to all ecological systems

Ecology, Genetics and Evolution of Metapopulations Ilkka A. Hanski, Oscar E. Gaggiotti, 2004-02-26 Spatial dynamics landscape population *Population Fluctuations in Rodents* Charles J. Krebs, 2013-04-19 How did rodent outbreaks in Germany help to end World War I What caused the destructive outbreak of rodents in Oregon and California in the late 1950s the large population outbreak of lemmings in Scandinavia in 2010 and the great abundance of field mice in Scotland in the spring of 2011 Population fluctuations or outbreaks of rodents constitute one of the classic problems of animal ecology and in *Population Fluctuations in Rodents* Charles J Krebs sifts through the last eighty years of research to draw out exactly what we know about rodent outbreaks and what should be the agenda for future research Krebs has synthesized the research in this area focusing mainly on the voles and lemmings of the Northern Hemisphere his primary area of expertise but also referring to the literature on rats and mice He covers the patterns of changes in reproduction and mortality and the mechanisms that cause these changes including predation disease food shortage and social behavior and discusses how landscapes can affect population changes methodically presenting the hypotheses related to each topic before determining whether or not the data supports them He ends on an expansive note by turning his gaze outward and discussing how the research on rodent populations can apply to other terrestrial mammals Geared toward advanced undergraduate students graduate students and practicing ecologists interested in rodent population studies this book will also appeal to researchers seeking to manage rodent populations and to understand outbreaks in both natural and urban settings or conversely to protect endangered species

Evolution in Age-Structured Populations Brian Charlesworth, 1994-06-30 The populations of many species of animals and plants are age structured i e the individuals present at any one time were born over a range of different times and their fertility and survival depend on age The properties of such populations are important for interpreting experiments and observations on the genetics of populations for animal and plant breeding and for understanding the evolution of features of life histories such as senescence and time of reproduction In this new edition Brian Charlesworth provides a comprehensive review of the basic mathematical theory of the demography and genetics of age structured populations The mathematical level of the book is such that it will be accessible to anyone with a knowledge of basic calculus and linear algebra

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 Standard statistics revisited Modeling variance Dynamic models

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Table of Contents Modelling Fluctuating Populations

1. Understanding the eBook Modelling Fluctuating Populations
 - The Rise of Digital Reading Modelling Fluctuating Populations
 - Advantages of eBooks Over Traditional Books
2. Identifying Modelling Fluctuating Populations
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Modelling Fluctuating Populations
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modelling Fluctuating Populations
 - Personalized Recommendations
 - Modelling Fluctuating Populations User Reviews and Ratings
 - Modelling Fluctuating Populations and Bestseller Lists
5. Accessing Modelling Fluctuating Populations Free and Paid eBooks

- Modelling Fluctuating Populations Public Domain eBooks
- Modelling Fluctuating Populations eBook Subscription Services
- Modelling Fluctuating Populations Budget-Friendly Options
- 6. Navigating Modelling Fluctuating Populations eBook Formats
 - ePub, PDF, MOBI, and More
 - Modelling Fluctuating Populations Compatibility with Devices
 - Modelling Fluctuating Populations Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Modelling Fluctuating Populations
 - Highlighting and Note-Taking Modelling Fluctuating Populations
 - Interactive Elements Modelling Fluctuating Populations
- 8. Staying Engaged with Modelling Fluctuating Populations
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Modelling Fluctuating Populations
- 9. Balancing eBooks and Physical Books Modelling Fluctuating Populations
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Modelling Fluctuating Populations
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Modelling Fluctuating Populations
 - Setting Reading Goals Modelling Fluctuating Populations
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Modelling Fluctuating Populations
 - Fact-Checking eBook Content of Modelling Fluctuating Populations
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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