

# Modelling Fluctuating Populations



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

# Modelling Fluctuating Populations

**Sarah P. Otto, Troy Day**



## **Modelling Fluctuating Populations:**

Modelling Fluctuating Populations Roger M. Nisbet, W. S. C. Gurney, 1993      Modelling Fluctuating Populations R. M. Nisbet, W. S. C. Gurney, 1982 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine      **Modelling Fluctuating Populations** R. Nisbet, 1990      **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      **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 seem less 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      *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      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

**An Introduction to Structured Population Dynamics** J. M. Cushing, 1998-01-01 Interest in the temporal fluctuations of biological populations can be traced to the dawn of civilization How can mathematics be used to gain an understanding of population dynamics This monograph introduces the theory of structured population dynamics and its applications focusing on the asymptotic dynamics of deterministic models This theory bridges the gap between the characteristics of individual organisms in a population and the dynamics of the total population as a whole In this monograph many applications that illustrate both the theory and a wide variety of biological issues are given along with an interdisciplinary case study that illustrates the connection of models with the data and the experimental documentation of model predictions The author also discusses the use of discrete and continuous models and presents a general modeling theory for structured population dynamics Cushing begins with an obvious point individuals in biological populations differ with regard to their physical and behavioral characteristics and therefore in the way they interact with their environment Studying this point effectively requires the use of structured models Specific examples cited throughout support the valuable use of structured models Included among these are important applications chosen to illustrate both the mathematical theories and biological problems that have received attention in recent literature

**Ecology, Genetics and Evolution of Metapopulations** Ilkka A. Hanski, Oscar E. Gaggiotti, 2004-02-26 Spatial dynamics landscape population

**Ecology of Populations** Esa Ranta, Per Lundberg, Veijo Kaitala, 2005-02-06 The theme of the book is the distribution and abundance of organisms in space and time The core of the book lies in how local births and deaths are tied to emigration and immigration processes and how environmental variability at different scales affects population dynamics with stochastic processes and spatial structure and shows how elementary analytical tools can be used to understand population fluctuations synchrony processes underlying range distributions and community structure and species coexistence The book also shows how spatial population dynamics models can be used to understand life history evolution and aspects of evolutionary game theory Although primarily based on analytical and numerical analyses of spatial population processes data from several study systems are also dealt with

**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

Risk Assessment in Conservation Biology M.A. Burgman, S. Ferson, H.R. Akçakaya, 1993-01-31 This book is a cohesive guide to the available methods that can be used in population viability analysis It is therefore extremely valuable to both the practitioner of conservation biology and the theoretical population biologist

*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

**Simulation Modeling of Forest Landscape Disturbances** Ajith H. Perera, Brian R. Sturtevant, Lisa J. Buse, 2015-07-27 Forest landscape disturbances are a global phenomenon Simulation models are an important tool in understanding these broad scale processes and exploring their effects on forest ecosystems This book contains a collection of insights from a group of ecologists who address a variety of processes physical disturbances such as drought wind and fire biological disturbances such as defoliating insects and bark beetles anthropogenic influences interactions among disturbances effects of climate change on disturbances and the recovery of forest landscapes from disturbances all from a simulation modeling perspective These discussions and examples offer a broad synopsis of the state of this rapidly evolving subject

*Stochastic Population Dynamics in Ecology and Conservation* Russell Lande, Steinar Engen, Bernt-Erik Sæther, 2003 All populations fluctuate stochastically creating a risk of extinction that does not exist in deterministic models with fundamental consequences for both pure and applied ecology This

book provides the most comprehensive introduction to stochastic population dynamics combining classical background material with a variety of modern approaches including new and previously unpublished results by the authors illustrated with examples from bird and mammal populations and insect communities Demographic and environmental stochasticity are introduced with statistical methods for estimating them from field data The long run growth rate of a population is explained and extended to include age structure with both demographic and environmental stochasticity Diffusion approximations facilitate the analysis of extinction dynamics and the duration of the final decline Methods are developed for estimating delayed density dependence from population time series using life history data Metapopulation viability and the spatial scale of population fluctuations and extinction risk are analyzed Stochastic dynamics and statistical uncertainty in population parameters are incorporated in Population Viability Analysis and strategies for sustainable harvesting Statistics of species diversity measures and species abundance distributions are described with implications for rapid assessments of biodiversity and methods are developed for partitioning species diversity into additive components Analysis of the stochastic dynamics of a tropical butterfly community in space and time indicates that most of the variance in the species abundance distribution is due to ecological heterogeneity among species so that real communities are far from neutral

**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

**The Spatial and Temporal Dynamics of Host-Parasitoid Interactions** Michael Hassell, 2000-06-08 This book examines our current understanding of the population dynamics of one kind of interaction that between insect parasitoids and their hosts Parasitoids are amongst the most abundant of all animals and make up about 10% or more of metazoan species Almost no insect species escape their attack Host parasitoid interactions were first modelled over fifty years ago but for many years there was little good empirical information on the important factors that affect host and parasitoid populations The models were very simple and their predictions rather divorced from the complexity of what was visible in the field Now better data is available on many components of host parasitoid systems from field observations and laboratory and field experiments and this allows a much closer correspondence between models and data In particular the past twenty years have seen major advances in our understanding of how host parasitoid interactions are influenced by spatial processes by age structure effects and by competition from additional host and parasitoid species The result is a body of theory that makes direct contact with real systems in the field and provides us with a detailed understanding of what

underpins a whole area of population dynamics In this book Michael P Hassell pulls the theory and field data together to present an elegant illustration of the way in which ecological studies advance     *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



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