

Matrix Population Models

SECOND
EDITION

CONSTRUCTION, ANALYSIS, AND INTERPRETATION



HAL CASWELL

Matrix Population Models Construction Analysis And Interpretation

Johannes Müller, Christina Kuttler



Matrix Population Models Construction Analysis And Interpretation:

Matrix Population Models Hal Caswell, 1989 Emphasizes the construction of models either from actual data or as an expression of hypotheses about the life cycle mathematical analysis of the models and the biological interpretation of the results Annotation copyrighted by Book News Inc Portland OR Matrix Population Models Hal Caswell, 1989 **Modeling Demographic Processes in Marked Populations** David L. Thomson, Evan G. Cooch, Michael J. Conroy, 2008-12-11 Here biologists and statisticians come together in an interdisciplinary synthesis with the aim of developing new methods to overcome the most significant challenges and constraints faced by quantitative biologists seeking to model demographic rates **Structured-Population Models in Marine, Terrestrial, and Freshwater Systems** Shripad Tuljapurkar, Hal Caswell, 2012-12-06 In the summer of 1993 twenty six graduate and postdoctoral students and fourteen lecturers converged on Cornell University for a summer school devoted to structured population models This school was one of a series to address concepts cutting across the traditional boundaries separating terrestrial marine and freshwater ecology Earlier schools resulted in the books Patch Dynamics S A Levin T M Powell a book on food webs is in preparation Models of population structure differences among individuals due to age size developmental stage spatial location or genotype have an important place in studies of all three kinds of ecosystem In choosing the participants and lecturers for the school we selected for diversity biologists who knew some mathematics and mathematicians who knew some biology field biologists sobered by encounters with messy data and theoreticians intoxicated by the elegance of the underlying mathematics people concerned with long term evolutionary problems and people concerned with the acute crises of conservation biology For four weeks these perspectives swirled in discussions that started in the lecture hall and carried on into the sweltering Ithaca night Diversity may or may not increase stability but it surely makes things interesting **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 *Population Viability in Plants* Christy A. Brigham, Mark W. Schwartz, 2013-06-29 Providing a quantitative assessment of threatened plant populations that holds for varying management scenarios has become an essential part of conservation planning Here renowned plant ecologists provide information on major threats to plants when and where to conduct a plant viability assessment PVA what type of PVA to conduct what alternative options to PVA are available what information is required for which kind of viability assessment what attributes of the population in question should be considered and what the limits of the PVA would be As such this volume can be used as a training tool for the environmental manager or a teaching aid for reviewing the current state of knowledge on plant population viability **Applied Hierarchical Modeling in Ecology: Analysis of Distribution, Abundance and Species Richness in R and BUGS** Marc Kéry, J. Andrew Royle, 2020-10-10 Applied Hierarchical Modeling in Ecology Analysis of Distribution Abundance and Species Richness in R and BUGS Volume Two Dynamic and Advanced Models provides a synthesis of the state of the art in hierarchical models for plant and animal distribution also focusing on the complex and more advanced models currently available The book explains all procedures in the context of hierarchical models that represent a unified approach to ecological research thus taking the reader from design through data collection and into analyses using a very powerful way of synthesizing data Makes ecological modeling accessible to people who are struggling to use complex or advanced modeling programs Synthesizes current ecological models and explains how they are inter connected Contains numerous examples throughout the book walking the reader through scenarios with both real and simulated data Provides an ideal resource for ecologists working in R software and in BUGS software for more flexible Bayesian analyses International Handbook of Health Expectancies Carol Jagger, Eileen M. Crimmins, Yasuhiko Saito, Renata Tiene De Carvalho Yokota, Herman Van Oyen, Jean-Marie Robine, 2020-03-18 This handbook presents global research on health expectancies a measure of population health that examines the interaction between quantity and quality of life With data from Europe North America Asia and beyond it explains how to define and measure health and morbidity and how to integrate these measurements with mortality Coverage first highlights long term trends in longevity and health It also considers variations across and within countries inequalities and social gaps as well as micro and macro level determinants Next the handbook deals with the methodological aspects of calculating health expectancies It compares results from different methods and introduces tools such as decomposition tool for decomposing gaps an attrition tool for attributing a medical cause to reported disability and a tool for measuring policy impact on health expectancies It introduces methods of forecasting health expectancies The handbook then goes on to examine the synergies and or trade off between longevity and health as well as considers such topics as the compression versus the expansion of morbidity disability and the health survival paradox The last section considers new concepts and dimensions of health and more broadly well being which

can be used in summary measures of population health including psychological factors Researchers clinicians demographers and health planners will find this handbook an essential resource to this increasingly important public health and social policy tool It will help readers gain insight into changes in health over time as well as inequalities between countries regions and population subgroups

Encyclopedia of Ecology Brian D. Fath, 2014-11-03 The groundbreaking Encyclopedia of Ecology provides an authoritative and comprehensive coverage of the complete field of ecology from general to applied It includes over 500 detailed entries structured to provide the user with complete coverage of the core knowledge accessed as intuitively as possible and heavily cross referenced Written by an international team of leading experts this revolutionary encyclopedia will serve as a one stop shop to concise stand alone articles to be used as a point of entry for undergraduate students or as a tool for active researchers looking for the latest information in the field Entries cover a range of topics including Behavioral Ecology Ecological Processes Ecological Modeling Ecological Engineering Ecological Indicators Ecological Informatics Ecosystems Ecotoxicology Evolutionary Ecology General Ecology Global Ecology Human Ecology System Ecology The first reference work to cover all aspects of ecology from basic to applied Over 500 concise stand alone articles are written by prominent leaders in the field Article text is supported by full color photos drawings tables and other visual material Fully indexed and cross referenced with detailed references for further study Writing level is suited to both the expert and non expert Available electronically on ScienceDirect shortly upon publication

Applied Mathematical Demography Nathan Keyfitz, Hal Caswell, 2005-11-14 Focuses on applications of demographic models This book introduces the life table to describe age specific mortality and uses it to develop theory for stable populations and the rate of population increase This theory is then revisited in the context of matrix models for stage classified as well as age classified populations

Complex Population Dynamics Peter Turchin, 2013-02-15 Why do organisms become extremely abundant one year and then seem to disappear a few years later Why do population outbreaks in particular species happen more or less regularly in certain locations but only irregularly or never at all in other locations Complex population dynamics have fascinated biologists for decades By bringing together mathematical models statistical analyses and field experiments this book offers a comprehensive new synthesis of the theory of population oscillations Peter Turchin first reviews the conceptual tools that ecologists use to investigate population oscillations introducing population modeling and the statistical analysis of time series data He then provides an in depth discussion of several case studies including the larch budmoth southern pine beetle red grouse voles and lemmings snowshoe hare and ungulates to develop a new analysis of the mechanisms that drive population oscillations in nature Through such work the author argues ecologists can develop general laws of population dynamics that will help turn ecology into a truly quantitative and predictive science Complex Population Dynamics integrates theoretical and empirical studies into a major new synthesis of current knowledge about population dynamics It is also a pioneering work that sets the course for ecology's future as a predictive science

Quantitative Ecotoxicology Michael C.

Newman,2012-08-29 Quantitative Ecotoxicology Second Edition explores models and methods of quantitative ecotoxicology at progressively higher biological scales using worked examples and common software packages It complements the author s previous books Fundamentals of Ecotoxicology Third Edition and Ecotoxicology A Comprehensive Treatment Encouraging a more r

Modelling Complex Ecological Dynamics Fred Jopp,Hauke Reuter,Broder Breckling,2011-02-11 Model development is of vital importance for understanding and management of ecological processes Identifying the complex relationships between ecological patterns and processes is a crucial task Ecological modelling both qualitatively and quantitatively plays a vital role in analysing ecological phenomena and for ecological theory This textbook provides a unique overview of modelling approaches Representing the state of the art in modern ecology it shows how to construct and work with various different model types It introduces the background of each approach and its application in ecology Differential equations matrix approaches individual based models and many other relevant modelling techniques are explained and demonstrated with their use The authors provide links to software tools and course materials With chapters written by leading specialists Modelling Complex Ecological Dynamics is an essential contribution to expand the qualification of students teachers and scientists alike

Encyclopedia of Theoretical Ecology Alan Hastings,Louis J. Gross,2012-05-31 A bold and successful attempt to illustrate the theoretical foundations of all of the subdisciplines of ecology including basic and applied and extending through biophysical population community and ecosystem ecology Encyclopedia of Theoretical Ecology is a compendium of clear and concise essays by the intellectual leaders across this vast breadth of knowledge Harold Mooney Stanford University A remarkable and indispensable reference work that also is flexible enough to provide essential readings for a wide variety of courses A masterful collection of authoritative papers that convey the rich and fundamental nature of modern theoretical ecology Simon A Levin Princeton University Theoretical ecologists exercise their imaginations to make sense of the astounding complexity of both real and possible ecosystems Imagining a real or possible topic left out of the Encyclopedia of Theoretical Ecology has proven just as challenging This comprehensive compendium demonstrates that theoretical ecology has become a mature science and the volume will serve as the foundation for future creativity in this area Fred Adler University of Utah The editors have assembled an outstanding group of contributors who are a great match for their topics Sometimes the author is a key authoritative figure in a field and at other times the author has enough distance to convey all sides of a subject The next time you need to introduce ecology students to a theoretical topic you ll be glad to have this encyclopedia on your bookshelf Stephen Ellner Cornell University Everything you wanted to know about theoretical ecology and much that you didn t know you needed to know but will now Alan Hastings and Louis Gross have done us a great service by bringing together in very accessible form a huge amount of information about a broad complicated and expanding field Daniel Simberloff University of Tennessee Knoxville

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Population Ecology John H. Vandermeer, Deborah E. Goldberg, 2013-08-25 The essential introduction to population ecology now expanded and fully updated Ecology is capturing the popular imagination like never before with issues such as climate change species extinctions and habitat destruction becoming ever more prominent At the same time the science of ecology has advanced dramatically growing in mathematical and theoretical sophistication Here two leading experts present the fundamental quantitative principles of ecology in an accessible yet rigorous way introducing students to the most basic of all ecological subjects the structure and dynamics of populations John Vandermeer and Deborah Goldberg show that populations are more than simply collections of individuals Complex variables such as distribution and territory for expanding groups come into play when mathematical models are applied Vandermeer and Goldberg build these models from the ground up from first principles using a broad range of empirical examples from animals and viruses to plants and humans They address a host of exciting topics along the way including age structured populations spatially distributed populations and metapopulations This second edition of *Population Ecology* is fully updated and expanded with additional exercises in virtually every chapter making it the most up to date and comprehensive textbook of its kind Provides an accessible mathematical foundation for the latest advances in ecology Features numerous exercises and examples throughout Introduces students to the key literature in the field The essential textbook for advanced undergraduates and graduate students An online illustration package is available to professors

Species Conservation and Management H. Resit Akcakaya, Mark A. Burgman, Oskar Kindvall, Chris C. Wood, Per Sjögren-Gulve, Jeff S. Hatfield, Michael A. McCarthy, 2004-10-07 This edited volume is a collection of population and metapopulation models for a wide variety of species including plants invertebrates fishes amphibians reptiles birds and mammals Each chapter of the book describes the application of RAMAS GIS 4.0 to one species with the aim of demonstrating how various life history characteristics of the species are incorporated into the model and how the results of the model has been or can be used in conservation and management of the species The book comes with a CD that includes a demo version of the program and the data files for each species

Gender-structured Population Modeling M. Iannelli, M. Martcheva, F. A. Milner, 2005-01-01 *Gender Structured Population Modeling* gives a unified presentation of and mathematical framework for modeling population growth

by couple formation It provides an overview of both past and present modeling results The authors focus on pair formation marriage and two sex models with different forms of the marriage function the basis of couple formation and discuss which of these forms might make a better choice for a particular population the United States The book also 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 Methods and Models in Mathematical Biology Johannes Müller,Christina Kuttler,2015-08-13 This book developed from classes in mathematical biology taught by the authors over several years at the Technische Universität München The main themes are modeling principles mathematical principles for the analysis of these models and model based analysis of data The key topics of modern biomathematics are covered ecology epidemiology biochemistry regulatory networks neuronal networks and population genetics A variety of mathematical methods are introduced ranging from ordinary and partial differential equations to stochastic graph theory and branching processes A special emphasis is placed on the interplay between stochastic and deterministic models Theory of Wildlife Population Ecology Bruce D. Leopold,2018-10-25 Understanding wildlife population ecology is vital for all wildlife managers and conservation biologists Leopold draws on 30 years of research and teaching experience to give students and natural resource professionals the foundation they need to effectively manage wildlife populations He begins with the key statistical concepts and research approaches necessary to gain insight into various models of population dynamics The many factors that influence wildlife populations are thoroughly explored and their consequences are investigated In addition the author presents techniques for analyzing wildlife harvest data and a lucid discussion of valuable wildlife census methods Frequent examples of foundational literature supplement each chapter with applications of the theories and provide a concise compendium of fundamental concepts of population ecology Abundant statistical exercises reinforce students learning throughout the text

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