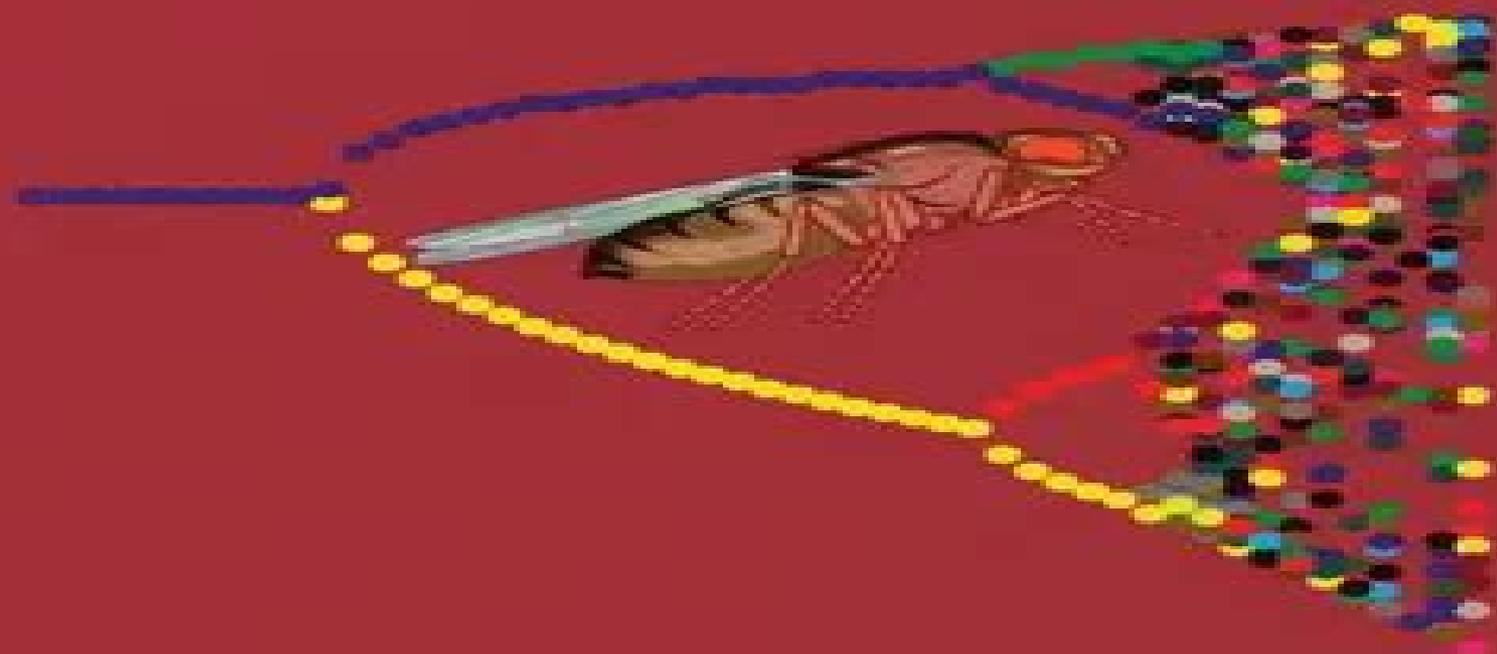


Stability in Model Populations

LAURENCE D. MUELLER
AMITABH JOSHI



MONOGRAPHS IN POPULATION BIOLOGY • 31

Stability In Model Populations

**National Research Council
Canada, Canada. Department of
Fisheries and Oceans**



Stability In Model Populations:

Stability in Model Populations Laurence D. Mueller, Amitabh Joshi, 2020-03-31 Throughout the twentieth century biologists investigated the mechanisms that stabilize biological populations which if unchecked by such agencies as competition and predation should grow geometrically How is order in nature maintained in the face of the seemingly disorderly struggle for existence In this book Laurence Mueller and Amitabh Joshi examine current theories of population stability and show how recent laboratory research on model populations particularly blowflies *Tribolium* and *Drosophila* contributes to our understanding of population dynamics and the evolution of stability The authors review the general theory of population stability and critically analyze techniques for inferring whether a given population is in balance or not They then show how rigorous empirical research can reveal both the proximal causes of stability how populations are regulated and maintained at an equilibrium including the relative roles of biotic and abiotic factors and its ultimate mostly evolutionary causes In the process they describe experimental studies on model systems that address the effects of age structure inbreeding resource levels and population structure on the stability and persistence of populations The discussion incorporates the authors own findings on the evolution of population stability in *Drosophila* They go on to relate laboratory work to studies of animals in the wild and to develop a general framework for relating the life history and ecology of a species to its population dynamics This accessible finely written illustration of how carefully designed experiments can improve theory will have tremendous value for all ecologists and evolutionary biologists

Stability and Complexity in Model Ecosystems, 2001-03-18 What makes populations stabilize What makes them fluctuate Are populations in complex ecosystems more stable than populations in simple ecosystems In 1973 Robert May addressed these questions in this classic book May investigated the mathematical roots of population dynamics and argued counter to most current biological thinking that complex ecosystems in themselves do not lead to population stability *Stability and Complexity in Model Ecosystems* played a key role in introducing nonlinear mathematical models and the study of deterministic chaos into ecology a role chronicled in James Gleick's book *Chaos* In the quarter century since its first publication the book's message has grown in power Nonlinear models are now at the center of ecological thinking and current threats to biodiversity have made questions about the role of ecosystem complexity more crucial than ever In a new introduction the author addresses some of the changes that have swept biology and the biological world since the book's first publication

On the Stability of a Population Growth Model with Sexual Reproduction on the Two Dimensional Integer Lattice Hwa-Nien Chen, 1990

Ecology Michael Begon, Colin R. Townsend, 2020-11-11 A definitive guide to the depth and breadth of the ecological sciences revised and updated The revised and updated fifth edition of *Ecology From Individuals to Ecosystems* now in full colour offers students and practitioners a review of the ecological sciences The previous editions of this book earned the authors the prestigious Exceptional Life time Achievement Award of the British Ecological Society the aim for the fifth

edition is not only to maintain standards but indeed to enhance its coverage of Ecology In the first edition 34 years ago it seemed acceptable for ecologists to hold a comfortable objective not to say aloof position from which the ecological communities around us were simply material for which we sought a scientific understanding Now we must accept the immediacy of the many environmental problems that threaten us and the responsibility of ecologists to play their full part in addressing these problems This fifth edition addresses this challenge with several chapters devoted entirely to applied topics and examples of how ecological principles have been applied to problems facing us highlighted throughout the remaining nineteen chapters Nonetheless the authors remain wedded to the belief that environmental action can only ever be as sound as the ecological principles on which it is based Hence while trying harder than ever to help improve preparedness for addressing the environmental problems of the years ahead the book remains in its essence an exposition of the science of ecology This new edition incorporates the results from more than a thousand recent studies into a fully up to date text Written for students of ecology researchers and practitioners the fifth edition of Ecology From Individuals to Ecosystems is an essential reference to all aspects of ecology and addresses environmental problems of the future

Stability and Complexity in Model Ecosystems Robert McCredie May, 1973

Allee Effects in Ecology and Conservation Franck Courchamp, Ludek Berec, Joanna Gascoigne, 2008-02-14

Allee effects are broadly defined as a decline in individual fitness at low population size or density They can result in critical population thresholds below which populations crash to extinction As such they are very relevant to many conservation programmes where scientists and managers are often working with populations that have been reduced to low densities or small numbers There are a variety of mechanisms that can create Allee effects including mating systems predation environmental modification and social interactions The abrupt and unpredicted collapses of many exploited populations is just one illustration of the need to bring Allee effects to the forefront of conservation and management strategies Allee Effects in Ecology and Conservation provides a concise yet authoritative overview of the topic collating and integrating a widely dispersed literature from various fields marine and terrestrial plant and animal theoretical and empirical academic and applied This accessible text with its clear and simple explanations of both empirical observations and theoretical predications is particularly suitable for professional and academic ecologists requiring an overview of the state of the art in Allee effect research as well as for graduate students in population ecology and conservation biology It will also be of relevance to a wide readership of professionals in conservation and management requiring a concise summary of the topic

Stability and Complexity in Model Ecosystems Robert M May, 2019-12-31

What makes populations stabilize What makes them fluctuate Are populations in complex ecosystems more stable than populations in simple ecosystems In 1973 Robert May addressed these questions in this classic book May investigated the mathematical roots of population dynamics and argued counter to most current biological thinking that complex ecosystems in themselves do not lead to population stability *Stability and Complexity in Model Ecosystems* played a key role in introducing nonlinear

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Machine Learning Using R Karthik Ramasubramanian, Abhishek Singh, 2016-12-22

Examine the latest technological advancements in building a scalable machine learning model with Big Data using R This book shows you how to work with a machine learning algorithm and use it to build a ML model from raw data All practical demonstrations will be explored in R a powerful programming language and software environment for statistical computing and graphics The various packages and methods available in R will be used to explain the topics For every machine learning algorithm covered in this book a 3 D approach of theory case study and practice will be given And where appropriate the mathematics will be explained through visualization in R All the images are available in color and hi res as part of the code download This new paradigm of teaching machine learning will bring about a radical change in perception for many of those who think this subject is difficult to learn Though theory sometimes looks difficult especially when there is heavy mathematics involved the seamless flow from the theoretical aspects to example driven learning provided in this book makes it easy for someone to connect the dots What You'll Learn Use the model building process flow Apply theoretical aspects of machine learning Review industry based case studies Understand ML algorithms using R Build machine learning models using Apache Hadoop and Spark Who This Book is For Data scientists data science professionals and researchers in academia who want to understand the nuances of machine learning approaches algorithms along with ways to see them in practice using R The book will also benefit the readers who want to understand the technology behind implementing a scalable machine learning model using Apache Hadoop Hive Pig and Spark

Risk Evaluation and Biological Reference Points for Fisheries Management National Research Council Canada, Canada. Department of Fisheries and Oceans, 1993

Papers presented

- 1 Reference points for fisheries management the western Canadian experience
- 2 Reference points for fisheries management the eastern Canadian experience
- 3 Reference points for fisheries management the ICES experience
- 4 Spawning stock biomass per recruit in fisheries management foundation and current use
- 5 The development of a management procedure for the South African anchovy resource
- 6 How much spawning per recruit is enough
- 7 The behaviour of F_{med} and F_{high} in response to variation in parameters used for their estimation
- 8 The Barents Sea capelin stock collapse a lesson to learn
- 9 Variance estimates for fisheries assessment their importance and how best to evaluate them
- 10 Evaluating the accuracy of projected catch estimates from sequential population analysis and trawl survey abundance estimates
- 11 Bootstrap estimates of ADAPT parameters their projection in risk analysis and their retrospective patterns
- 12 Analytical estimates of reliability for the projected yield from commercial fisheries
- 13 Risk evaluation of the 10% harvest rate procedure

for capelin in NAFO Division 3L 14 Using jackknife and Monte Carlo simulation techniques to evaluate forecast models for Atlantic salmon 15 Monte Carlo evaluation of risks for biological reference points used in New Zealand fishery assessments 16 A comparison of event free risk analysis to Ricker spawner recruit simulation an example with Atlantic menhaden 17 Choosing a management strategy for stock rebuilding when control is uncertain 18 Risks and uncertainties in the management of a single cohort squid fishery the Falkland Islands Illex fishery as an example 19 Risks of over and under fishing new resources 20 Estimation of density dependent natural mortality in British Columbia herring stocks through SSPA and its impact on sustainable harvesting strategies 21 The comparative performance of production model and ad hoc tuned VPA based feedback control management procedures for the stock of Cape hake off the west coast of Africa 22 A proposal for a threshold stock size and maximum fishing mortality rate 23 Biological reference points for Canadian Atlantic gadoid stocks 24 Stochastic locally optimal harvesting 25 ITQ based fisheries management 26 Bioeconomic methods for determining TACs 27 Management strategies fixed or variable catch quotas 28 Bioeconomic impacts of TAC adjustment strategies a model applied to northern cod 29 Experimental management programs for two rockfish stocks off British Columbia 30 A brief overview of the experimental approach to reducing uncertainty in fisheries management 31 Fisheries management organizations a study of uncertainty

The Methods and Materials of Demography Henry S. Shryock, Jacob S. Siegel, 1975

Some Methods of Estimation for Statistically Underdeveloped Areas Paul George Demeny, 1971

Applications of Stability Methods to a Dynamic Population Model Peter Anthony Cummings, 1992

Stability and Complexity in Model Ecosystems, 2001

Systems Analysis and Simulation in Ecology Bernard C. Patten, 1976

Structure, Functioning and Management of Ecosystems, 1974

Methods of Estimating Basic Demographic Measures from Incomplete Data United Nations. Department of Economic and Social Affairs, 1967

Stability Analysis of a Population Growth Model by D-decomposition Nicholas Jermihov, 1972

Methodology for Population Studies and Development Kuttan Mahadevan, Parameswara Krishnan, 1993-05-25

This volume examines aspects of research methodology related to assessing the interaction between development and population behaviour with all its social ramifications The contributors approach development from a broad holistic perspective and present interdisciplinary methods for the study of population processes with emphasis on both theory and practice

Theory of Natural Selection and Population Growth Lev R. Ginzburg, 1983

Journal of Mathematical Biology, 1985 Publishes papers in which mathematics is used to understand biological phenomena and mathematical papers which answer questions arising from models of biological phenomena

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Table of Contents Stability In Model Populations

1. Understanding the eBook Stability In Model Populations
 - The Rise of Digital Reading Stability In Model Populations
 - Advantages of eBooks Over Traditional Books
2. Identifying Stability In Model 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 Stability In Model Populations
 - User-Friendly Interface
4. Exploring eBook Recommendations from Stability In Model Populations
 - Personalized Recommendations
 - Stability In Model Populations User Reviews and Ratings
 - Stability In Model Populations and Bestseller Lists
5. Accessing Stability In Model Populations Free and Paid eBooks
 - Stability In Model Populations Public Domain eBooks
 - Stability In Model Populations eBook Subscription Services
 - Stability In Model Populations Budget-Friendly Options
6. Navigating Stability In Model Populations eBook Formats

- ePub, PDF, MOBI, and More
 - Stability In Model Populations Compatibility with Devices
 - Stability In Model Populations Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Stability In Model Populations
 - Highlighting and Note-Taking Stability In Model Populations
 - Interactive Elements Stability In Model Populations
 8. Staying Engaged with Stability In Model Populations
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Stability In Model Populations
 9. Balancing eBooks and Physical Books Stability In Model Populations
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Stability In Model Populations
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Stability In Model Populations
 - Setting Reading Goals Stability In Model Populations
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Stability In Model Populations
 - Fact-Checking eBook Content of Stability In Model 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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