

**Anthony G. Pakes**  
**R. A. Maller**

*Cambridge Studies in Mathematical Biology*

# **Mathematical ecology of plant species competition**



# Mathematical Ecology Of Plant Species Competition

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## **Mathematical Ecology Of Plant Species Competition:**

*Mathematical Ecology of Plant Species Competition* Anthony G. Pakes, Ross A. Maller, 1990 Presented in this document is a class of deterministic models describing the dynamics of two plant species whose characteristics are common to the majority of annual plants that have a seedbank Formulated in terms of elementary dynamical systems these models were developed in response to four major questions on the long term outcomes of binary mixtures of plant species Is ultimate coexistence possible If not which strain will win Does the mixture approach an equilibrium If so how long does the mixture take to attain it The book gives a detailed account of model construction analysis and application to field data obtained from long term trials In the particular case study modelled the species involved are two pastoral strains whose dynamics have critical agricultural and economic implications for the areas in which they are found including North America the Mediterranean region and Australia This study will be valuable to researchers and students in mathematical biology and to agronomists and botanists interested in population dynamics Differential Equations with Applications to Biology Shigui Ruan, Gail Susan Kohl Wolkowicz, Jianhong Wu, Math and Bio 2010 Lynn Arthur Steen, 2005 Math and bio 2010 grew out of Meeting the Challenges Education across the Biological Mathematical and Computer Sciences a joint project of the Mathematical Association of America MAA the National Science Foundation Division of Undergraduate Education NSF DUE the National Institute of General Medical Sciences NIGMS the American Association for the Advancement of Science AAAS and the American Society for Microbiology ASM Foreword p vi **Mathematics of Genome Analysis** Jerome K. Percus, 2002 The massive research effort known as the Human Genome Project is an attempt to record the sequence of the three trillion nucleotides that make up the human genome and to identify individual genes within this sequence While the basic effort is of course a biological one the description and classification of sequences also lend themselves naturally to mathematical and statistical modeling This short textbook on the mathematics of genome analysis presents a brief description of several ways in which mathematics and statistics are being used in genome analysis and sequencing It will be of interest not only to students but also to professional mathematicians curious about the subject *Nonlinear Dynamics and Chaos in Agricultural Systems* K. Sakai, 2001-06-21 An introduction to the analysis of chaos for readers majoring in agricultural science and an introduction to agricultural science for readers majoring in mathematical science and other fields Hopes some readers will pursue further studies on the chaos of arable land Pref **Mathematical Ecology** Thomas G. Hallam, Simon A. Levin, 2012-12-06 There is probably no more appropriate location to hold a course on mathematical ecology than Italy the country of Vito Volterra a founding father of the subject The Trieste 1982 Autumn Course on Mathematical Ecology consisted of four weeks of very concentrated scholasticism and aestheticism The first weeks were devoted to fundamentals and principles of mathematical ecology A nucleus of the material from the lectures presented during this period constitutes this book The final week and a half of the Course was apportioned to the Trieste Research Conference on

Mathematical Ecology whose proceedings have been published as Volume 54 Lecture Notes in Biomathematics Springer Verlag The objectives of the first portion of the course were ambitious and probably unattainable Basic principles of the areas of physiological population community and ecosystem ecology that have solid ecological and mathematical foundations were to be presented Classical terminology was to be introduced important fundamental topics were to be developed some past and some current problems of interest were to be presented and directions for possible research were to be provided Due to time constraints the coverage could not be encyclopedic many areas covered already have merited treatises of book length Consequently preliminary foundation material was covered in some detail but subject overviews and area syntheses were represented when research frontiers were being discussed These lecture notes reflect this course philosophy

*The Theory of the Chemostat* Hal L. Smith, Paul Waltman, 1995-01-27 Basic modelling analysis and simulation of systems that have proven effective in real ecological applications

**An Introduction to the Mathematics of Neurons** Frank C. Hoppensteadt, F. C. Hoppensteadt, 1997-06-28 This book describes the signal processing aspects of neural networks It begins with a presentation of the necessary background material in electronic circuits mathematical modeling and analysis signal processing and neurosciences and then proceeds to applications These applications include small networks of neurons such as those used in control of warm up and flight in moths and control of respiration during exercise in humans Next a theory of mnemonic surfaces is developed and studied and material on pattern formation and cellular automata is presented Finally large networks are studied such as the thalamus reticular complex circuit believed to be involved in focusing attention and the development of connections in the visual cortex Additional material is also provided about nonlinear wave propagation in networks This book will serve as an excellent text for advanced undergraduates and graduates in the physical sciences mathematics engineering medicine and life sciences

**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

**Epidemic Modelling** Daryl J. Daley, Joseph Mark Gani, 1999 This is a general introduction to the mathematical techniques needed to understand epidemiology It begins with an historical outline of some disease statistics before describing simple deterministic and stochastic models

**Mathematical Ecology** S.A. Levin, T.G. Hallam, 2013-03-13

**Dynamics of Complex Interconnected Biological Systems** Jennings, Mees, Vincent, 2012-12-06 This volume contains the proceedings of the U S

Australia workshop on Complex Interconnected Biological Systems held in Albany Western Australia January 15 1989 The workshop was jointly sponsored by the Department of Industry Trade and Commerce Australia and the National Science Foundation USA under the US Australia agreement Biological systems are typically hard to study mathematically This is particularly so in the case of systems with strong interconnections such as ecosystems or networks of neurons In the past few years there have been substantial improvements in the mathematical tools available for studying complexity Theoretical advances include substantially improved understanding of the features of nonlinear systems that lead to important behaviour patterns such as chaos Practical advances include improved modelling techniques and deeper understanding of complexity indicators such as fractal dimension Game theory is now playing an increasingly important role in understanding and describing evolutionary processes in interconnected systems The strategies of individuals which affect each other's fitness may be incorporated into models as parameters Strategies which have the property of evolutionary stability result from particular parameter values which may be the main feature of living determined using game theoretic methods Since systems evolve it seems appropriate that any model used to describe such systems should have this feature as well Evolutionary game theory should lead the way in the development of such methods

**Encyclopedia of Environmental Change** John A Matthews, 2013-12-13 Accessibly written by a team of international authors the Encyclopedia of Environmental Change provides a gateway to the complex facts concepts techniques methodology and philosophy of environmental change This three volume set illustrates and examines topics within this dynamic and rapidly changing interdisciplinary field The encyclopedia includes all of the following aspects of environmental change Diverse evidence of environmental change including climate change and changes on land and in the oceans Underlying natural and anthropogenic causes and mechanisms Wide ranging local regional and global impacts from the polar regions to the tropics Responses of geosystems and human environmental systems in the face of past present and future environmental change Approaches methodologies and techniques used for reconstructing dating monitoring modelling projecting and predicting change Social economic and political dimensions of environmental issues environmental conservation and management and environmental policy Over 4 000 entries explore the following key themes and more Conservation Demographic change Environmental management Environmental policy Environmental security Food security Glaciation Green Revolution Human impact on environment Industrialization Land use change Military impacts on environment Mining and mining impacts Nuclear energy Pollution Renewable resources Solar energy Sustainability Tourism Trade Water resources Water security Wildlife conservation The comprehensive coverage of terminology includes layers of entries ranging from one line definitions to short essays making this an invaluable companion for any student of physical geography environmental geography or environmental sciences

*Applied Mathematical Ecology* Simon A. Levin, Thomas G. Hallam, Louis J. Gross, 2012-12-06 The Second Autumn Course on Mathematical Ecology was held at the International Centre for Theoretical Physics in Trieste Italy

in November and December of 1986 During the four year period that had elapsed since the First Autumn Course on Mathematical Ecology sufficient progress had been made in applied mathematical ecology to merit tilting the balance maintained between theoretical aspects and applications in the 1982 Course toward applications The course format while similar to that of the first Autumn Course on Mathematical Ecology consequently focused upon applications of mathematical ecology Current areas of application are almost as diverse as the spectrum covered by ecology The topics of this book reflect this diversity and were chosen because of perceived interest and utility to developing countries Topical lectures began with foundational material mostly derived from Mathematical Ecology An Introduction a compilation of the lectures of the 1982 course published by Springer Verlag in this series Volume 17 and when possible progressed to the frontiers of research In addition to the course lectures workshops were arranged for small groups to supplement and enhance the learning experience Other perspectives were provided through presentations by course participants and speakers at the associated Research Conference Many of the research papers are in a companion volume Mathematical Ecology Proceedings Trieste 1986 published by World Scientific Press in 1988 This book is structured primarily by application area Part II provides an introduction to mathematical and statistical applications in resource management

*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

**Biological Kinetics** Lee A. Segel, 1991 This book demonstrates how an understanding of biological kinetics can lead to knowledge about the biological model being examined

*Advances in Discrete Dynamical Systems, Difference Equations and Applications* Saber Elaydi, Mustafa R. S. Kulenović, Senada Kalabušić, 2023-03-25 This book comprises selected papers of the 26th International Conference on Difference Equations and Applications ICDEA 2021 held virtually at the University of Sarajevo Bosnia and Herzegovina in July 2021 The book includes the latest and significant research and achievements in difference equations discrete dynamical systems and their applications in various scientific disciplines The book is interesting for Ph.D. students and researchers who want to keep up to date with the latest research developments and achievements in difference equations discrete dynamical systems and their applications the real world problems

**Ecology**, 1960 Publishes essays and articles that report and interpret the results of original scientific research in basic and applied ecology

Resource Competition James P. Grover, 2012-12-06 As one of the most quantitative of ecological subdisciplines resource competition is an important central

area of ecology Recently research into this area has increased dramatically and resource competition models have become more complex The characterisation of this phenomenon is therefore the aim of this book Resource Competition seeks to identify the unifying principles emerging from experimental and theoretical approaches as well as the differences between organisms illustrating that greater knowledge of resource competition will benefit human and environmental welfare This book will serve as an indispensable guide to ecologists evolutionary biologists and environmental managers and all those interested in resource competition as an emerging discipline

**Conservation Biology** Peggy L. Fiedler, Peter M.

Kareiva, 2012-12-06 Reflecting what a new generation of conservation biologists is doing and thinking this vital and far ranging second edition explores where conservation biology is heading It challenges many conventions of conservation biology by exposing certain weaknesses of widely accepted principles Combining contributions from both the school and the new breed of conservation biologists this insightful text focuses primarily on topics that are integral to the daily activities of conservation biologists Several chapters address ecosystem restoration and biotic invasions as well as the mechanics of population viability analyses which are now a routine facet of conservation efforts A case history approach is implemented throughout the book with the use of practical real world examples Furthermore an in depth look at quantitative analyses is presented allowing for models and mathematical analyses to pinpoint limitations in existing data and guide research toward those aspects of biology that are most likely to be critical to the dynamics of a species or an ecosystem

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