

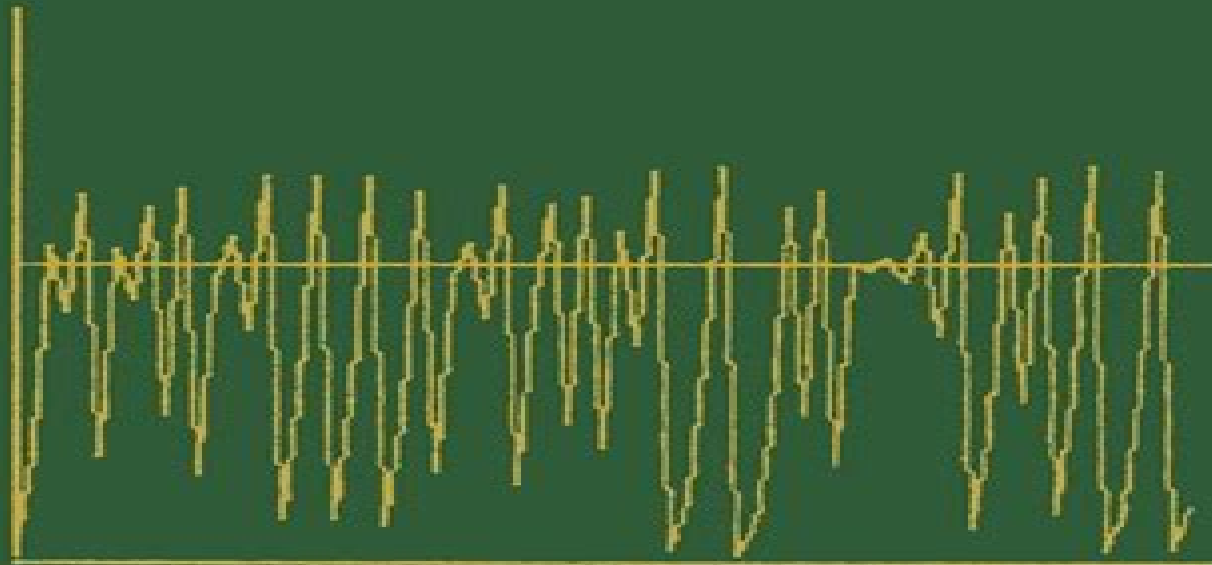
**Biomathematics
Volume 17**

Mathematical Ecology

An Introduction

Edited by

Thomas G. Hallam and Simon A. Levin



Springer-Verlag

Mathematical Ecology An Introduction

Thomas G. Hallam, Simon A. Levin



Mathematical Ecology An Introduction:

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 presented when research frontiers were being discussed These lecture notes reflect this course philosophy An Introduction to Mathematical Ecology E. C. Pielou, 1969 Population dynamics Spatial patterns in one species populations Spatial relations of two or more species Many species populations *Mathematical ecology*; 2, 1989 **Mathematical Ecology**, 1987 **An Introduction to Mathematical Ecology** Sidney Fine, 1969 **Elements of Mathematical Ecology** Mark Kot, 2001-07-19 An introduction to classical and modern mathematical models methods and issues in population ecology 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 *Introduction to Quantitative Ecology* Timothy E. Essington, 2021-09-30 Environmental science ecology conservation and resource management is an increasingly quantitative field A well trained ecologist now needs to evaluate evidence generated from complex quantitative methods and to apply these methods in their own research Yet the existing books and academic coursework are not adequately serving most of the potential audience instead they cater to the specialists who wish to focus on either mathematical or statistical aspects and overwhelmingly appeal to those who already have confidence in their quantitative skills At the same time many texts lack an explicit emphasis on the epistemology of quantitative techniques That is how do we gain understanding about the real world from models that are so vastly simplified This accessible textbook introduces quantitative ecology in a manner that aims to confront these limitations and thereby appeal to a far wider audience It presents material in an informal approachable and encouraging manner that welcomes readers with any degree of confidence and prior training It covers foundational topics in both mathematical and statistical ecology before describing how to implement these concepts to choose use and analyse models providing guidance and worked examples in both spreadsheet format and R The emphasis throughout is on the skilful interpretation of models to answer questions about the natural world *Introduction to Quantitative Ecology* is suitable for advanced undergraduate students and incoming graduate students seeking to strengthen their understanding of quantitative methods and to apply them successfully to real world ecology conservation and resource management scenarios **Applied Mathematical Ecology** Simon A Levin, Thomas G Hallam, Louis J Gross, 1989-10-19

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 *Historical Epistemology of Ecological Economics* Alberto Fragio, 2022-03-05 This volume uses historical epistemology in order to address several topics in the history of economic thought with special emphasis on ecological economics environmental metaphors of scarcity and mathematical ecology Using the field of ecological economics as an anchor point the author reflects on the styles of reasoning in economics with a view towards understanding the nature of disagreement that stems from a failure of communication between rival approaches in economics A thorough inquiry into issues related to identity coherence pluralism and reception this volume will appeal to researchers and students interested in history of economic thought ecological economics and philosophy of the sciences **Mathematical Models for Communicable Diseases** Fred Brauer, Carlos Castillo-Chavez, 2013-02-07 A self contained and comprehensive guide to the

mathematical modeling of disease transmission appropriate for graduate students *Computation and Applied Mathematics*, 2001 U.S. Environmental Protection Agency Library System Book Catalog United States. Environmental Protection Agency. Library Systems Branch, 1975 Mathematical Models in Epidemiology Fred Brauer, Carlos Castillo-Chavez, Zhilan Feng, 2019-10-10 The book is a comprehensive self contained introduction to the mathematical modeling and analysis of disease transmission models It includes i an introduction to the main concepts of compartmental models including models with heterogeneous mixing of individuals and models for vector transmitted diseases ii a detailed analysis of models for important specific diseases including tuberculosis HIV AIDS influenza Ebola virus disease malaria dengue fever and the Zika virus iii an introduction to more advanced mathematical topics including age structure spatial structure and mobility and iv some challenges and opportunities for the future There are exercises of varying degrees of difficulty and projects leading to new research directions For the benefit of public health professionals whose contact with mathematics may not be recent there is an appendix covering the necessary mathematical background There are indications which sections require a strong mathematical background so that the book can be useful for both mathematical modelers and public health professionals

An Introduction to Mathematical Population Dynamics Mimmo Iannelli, Andrea Pugliese, 2015-01-23 This book is an introduction to mathematical biology for students with no experience in biology but who have some mathematical background The work is focused on population dynamics and ecology following a tradition that goes back to Lotka and Volterra and includes a part devoted to the spread of infectious diseases a field where mathematical modeling is extremely popular These themes are used as the area where to understand different types of mathematical modeling and the possible meaning of qualitative agreement of modeling with data The book also includes a collections of problems designed to approach more advanced questions This material has been used in the courses at the University of Trento directed at students in their fourth year of studies in Mathematics It can also be used as a reference as it provides up to date developments in several areas **A Primer on Population Dynamics Modeling** Hiromi Seno, 2022-11-16 This textbook provides an introduction to the mathematical models of population dynamics in mathematical biology The focus of this book is on the biological meaning translation of mathematical structures in mathematical models rather than simply explaining mathematical details and literacies to analyze a model In some recent usages of the mathematical model simply with computer numerical calculations the model includes some inappropriate mathematical structure concerning the reasonability of modeling for the biological problem under investigation For students and researchers who study or use mathematical models it is important and helpful to understand what mathematical setup could be regarded as reasonable for the model with respect to the relation between the biological factors involved in the assumptions and the mathematical structure of the model Topics covered in this book are modeling with geometric progression density effect in population dynamics deriving continuous time models from discrete time models basic modeling for birth death stochastic processes continuous time

models modeling interspecific reaction for the continuous time population dynamics model competition and prey predator dynamics modeling for population dynamics with a heterogeneous structure of population qualitative analysis on the discrete time dynamical system necessary knowledge about fundamental mathematical theories to understand the dynamical nature of continuous time models The book includes popular topics in ecology and mathematical biology as well as classic theoretical topics By understanding the biological meaning of modeling for simple models readers will be able to derive a specific mathematical model for a biological problem by reasonable modeling The contents of this book is made accessible for readers without strong Mathematical background

An Introduction to the Mathematics of Biology: with Computer Algebra Models

Edward K. Yeagers, James V. Herod, Ronald W. Shonkweiler, 2013-12-01 Biology is a source of fascination for most scientists whether their training is in the life sciences or not In particular there is a special satisfaction in discovering an understanding of biology in the context of another science like mathematics Fortunately there are plenty of interesting and fun problems in biology and virtually all scientific disciplines have become the richer for it For example two major journals Mathematical Biosciences and Journal of Mathematical Biology have tripled in size since their inceptions 20 25 years ago The various sciences have a great deal to give to one another but there are still too many fences separating them In writing this book we have adopted the philosophy that mathematical biology is not merely the intrusion of one science into another but has a unity of its own in which both the biology and the mathematics should be equal and complete and should flow smoothly into and out of one another We have taught mathematical biology with this philosophy in mind and have seen profound changes in the outlooks of our science and engineering students The attitude of Oh no another pendulum on a spring problem or Yet one more LCD circuit completely disappeared in the face of applications of mathematics in biology There is a timeliness in calculating a protocol for administering a drug

Stochastic Methods in Biology Motoo

Kimura, Gopinath Kallianpur, Takeyuki Hida, 2013-03-13 The use of probabilistic methods in the biological sciences has been so well established by now that mathematical biology is regarded by many as a distinct discipline with its own repertoire of techniques The purpose of the Workshop on stochastic methods in biology held at Nagoya University during the week of July 8 12 1985 was to enable biologists and probabilists from Japan and the U S to discuss the latest developments in their respective fields and to exchange ideas on the applicability of the more recent developments in stochastic process theory to problems in biology Eighteen papers were presented at the Workshop and have been grouped under the following headings I Population genetics five papers II Measure valued diffusion processes related to population genetics three papers III Neurophysiology two papers IV Fluctuation in living cells two papers V Mathematical methods related to other problems in biology epidemiology population dynamics etc six papers An important feature of the Workshop and one of the reasons for organizing it has been the fact that the theory of stochastic differential equations SDEs has found a rich source of new problems in the fields of population genetics and neurobiology This is especially so for the relatively new and growing area

of infinite dimensional i.e. measure valued or distribution valued SDE's. The papers in II and III and some of the papers in the remaining categories represent these areas.

An Introduction to Mathematical Models in Ecology and Evolution

Mike Gillman, 2009-07-07. Students often find it difficult to grasp fundamental ecological and evolutionary concepts because of their inherently mathematical nature. Likewise the application of ecological and evolutionary theory often requires a high degree of mathematical competence. This book is a first step to addressing these difficulties providing a broad introduction to the key methods and underlying concepts of mathematical models in ecology and evolution. The book is intended to serve the needs of undergraduate and postgraduate ecology and evolution students who need to access the mathematical and statistical modelling literature essential to their subjects. The book assumes minimal mathematics and statistics knowledge whilst covering a wide variety of methods many of which are at the fore front of ecological and evolutionary research. The book also highlights the applications of modelling to practical problems such as sustainable harvesting and biological control. Key features: Written clearly and succinctly requiring minimal in depth knowledge of mathematics. Introduces students to the use of computer models in both fields of ecology and evolutionary biology. Market: senior undergraduate students and beginning postgraduates in ecology and evolutionary biology.

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