
Mathematical Models in Biology

Leah Edelstein-Keshet

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In Applied Mathematics

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Mathematical Models In Biology Classics In Applied Mathematics

Alan Hastings, Louis J. Gross



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Mathematical Models in Biology Leah Edelstein-Keshet, 1988-01-01 Mathematical Models in Biology is an introductory book for readers interested in biological applications of mathematics and modeling in biology A favorite in the mathematical biology community it shows how relatively simple mathematics can be applied to a variety of models to draw interesting conclusions Connections are made between diverse biological examples linked by common mathematical themes A variety of discrete and continuous ordinary and partial differential equation models are explored Although great advances have taken place in many of the topics covered the simple lessons contained in this book are still important and informative Audience the book does not assume too much background knowledge essentially some calculus and high school algebra It was originally written with third and fourth year undergraduate mathematical biology majors in mind however it was picked up by beginning graduate students as well as researchers in math and some in biology who wanted to learn about this field **A**

Primer in Mathematical Models in Biology Lee A. Segel, Leah Edelstein-Keshet, 2013-01-01 This textbook introduces differential equations biological applications and simulations and emphasizes molecular events biochemistry and enzyme kinetics excitable systems neural signals and small protein and genetic circuits A Primer on Mathematical Models in Biology will appeal to readers because it grew out of a course that the popular and highly respected applied mathematician Lee Segel taught at the Weizmann Institute and it represents his unique perspective combines clear and useful mathematical methods with applications that illustrate the power of such tools and includes many exercises in reasoning modeling and simulations

Mathematical Models for Society and Biology Edward Beltrami, 2002 Mathematical Modeling for Society and Biology engagingly relates mathematics to compelling real life problems in biology and contemporary society It shows how mathematical tools can be used to gain insight into these modern common problems to provide effective real solutions Beltrami s creative non threatening approach draws on a wealth of interesting examples pertaining to current social and biological issues Central ideas appear again in different contexts throughout the book showing the general unity of the modeling process The models are strikingly novel and based on issues of real concern Most have never appeared in book form Through the relevance of these models mathematics becomes not just figures and numbers but a means to a more refined understanding of the world **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 *Mathematical Models in Biology* Leah Edelstein-Keshet, 1988 The major aim of this book is to present instances of interaction between two major disciplines biology and mathematics The goal has been that of addressing a fairly wide audience Biology students will find this text useful as a summary of modern mathematical methods currently used in modelling and furthermore applied mathematics students may benefit from examples of applications of mathematics to real life problems As little background as possible has been assumed throughout the book prerequisites are basic calculus so that undergraduate students as well as beginning graduate students will find most of the material accessible 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 **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

Biology in Time and Space: A Partial Differential Equation Modeling Approach James P. Keener, 2021-06-02 How do biological objects communicate make structures make measurements and decisions search for food i e do all the things necessary for survival Designed for an advanced undergraduate audience this book uses mathematics to begin to tell that story It builds on a background in multivariable calculus ordinary differential equations and basic stochastic processes and uses partial differential equations as the framework within which to explore these questions **An Introduction to**

Undergraduate Research in Computational and Mathematical Biology Hannah Callender Highlander, Alex Capaldi, Carrie Diaz Eaton, 2020-02-17 Speaking directly to the growing importance of research experience in undergraduate mathematics programs this volume offers suggestions for undergraduate appropriate research projects in mathematical and computational biology for students and their faculty mentors The aim of each chapter is twofold for faculty to alleviate the challenges of identifying accessible topics and advising students through the research process for students to provide sufficient background additional references and context to excite students in these areas and to enable them to successfully undertake these problems in their research Some of the topics discussed include Oscillatory behaviors present in real world

applications from seasonal outbreaks of childhood diseases to action potentials in neurons Simulating bacterial growth competition and resistance with agent based models and laboratory experiments Network structure and the dynamics of biological systems Using neural networks to identify bird species from birdsong samples Modeling fluid flow induced by the motion of pulmonary cilia Aimed at undergraduate mathematics faculty and advanced undergraduate students this unique guide will be a valuable resource for generating fruitful research collaborations between students and faculty

Dynamical Systems with Applications using MATLAB® Stephen Lynch, 2014-07-22 This textbook now in its second edition provides a broad introduction to both continuous and discrete dynamical systems the theory of which is motivated by examples from a wide range of disciplines It emphasizes applications and simulation utilizing MATLAB Simulink the Image Processing Toolbox and the Symbolic Math toolbox including MuPAD Features new to the second edition include sections on series solutions of ordinary differential equations perturbation methods normal forms Gr bner bases and chaos synchronization chapters on image processing and binary oscillator computing hundreds of new illustrations examples and exercises with solutions and over eighty up to date MATLAB program files and Simulink model files available online These files were voted MATLAB Central Pick of the Week in July 2013 The hands on approach of Dynamical Systems with Applications using MATLAB Second Edition has minimal prerequisites only requiring familiarity with ordinary differential equations It will appeal to advanced undergraduate and graduate students applied mathematicians engineers and researchers in a broad range of disciplines such as population dynamics biology chemistry computing economics nonlinear optics neural networks and physics Praise for the first edition Summing up it can be said that this text allows the reader to have an easy and quick start to the huge field of dynamical systems theory MATLAB SIMULINK facilitate this approach under the aspect of learning by doing OR News Operations Research Spectrum The MATLAB programs are kept as simple as possible and the author s experience has shown that this method of teaching using MATLAB works well with computer laboratory classes of small sizes I recommend Dynamical Systems with Applications using MATLAB as a good handbook for a diverse readership graduates and professionals in mathematics physics science and engineering Mathematica

Dynamical Systems with Applications Using Mathematica® Stephen Lynch, 2017-10-12 This book provides an introduction to the theory of dynamical systems with the aid of the Mathematica computer algebra package The book has a very hands on approach and takes the reader from basic theory to recently published research material Emphasized throughout are numerous applications to biology chemical kinetics economics electronics epidemiology nonlinear optics mechanics population dynamics and neural networks Theorems and proofs are kept to a minimum The first section deals with continuous systems using ordinary differential equations while the second part is devoted to the study of discrete dynamical systems

A Practical Guide to Ecological Modelling Karline Soetaert, Peter M. J. Herman, 2008-10-14 Mathematical modelling is an essential tool in present day ecological research Yet for many ecologists it is still problematic to apply modelling in their research In our experience the major problem is at the

conceptual level proper understanding of what a model is how ecological relations can be translated consistently into mathematical equations how models are solved steady states calculated and interpreted Many textbooks jump over these conceptual hurdles to dive into detailed formulations or the mathematics of solution This book attempts to fill that gap It introduces essential concepts for mathematical modelling explains the mathematics behind the methods and helps readers to implement models and obtain hands on experience Throughout the book emphasis is laid on how to translate ecological questions into interpretable models in a practical way The book aims to be an introductory textbook at the undergraduate graduate level but will also be useful to seduce experienced ecologists into the world of modelling The range of ecological models treated is wide from Lotka Volterra type of principle seeking models to environmental or ecosystem models and including matrix models lattice models and sequential decision models All chapters contain a concise introduction into the theory worked out examples and exercises All examples are implemented in the open source package R thus taking away problems of software availability for use of the book All code used in the book is available on a dedicated website

A Course in Mathematical Biology Gerda de Vries, Thomas Hillen, Mark Lewis, Johannes M?ller, Birgitt Sch?nfisch, 2006-07-01 This is the only book that teaches all aspects of modern mathematical modeling and that is specifically designed to introduce undergraduate students to problem solving in the context of biology Included is an integrated package of theoretical modeling and analysis tools computational modeling techniques and parameter estimation and model validation methods with a focus on integrating analytical and computational tools in the modeling of biological processes Divided into three parts it covers basic analytical modeling techniques introduces computational tools used in the modeling of biological problems and includes various problems from epidemiology ecology and physiology All chapters include realistic biological examples including many exercises related to biological questions In addition 25 open ended research projects are provided suitable for students An accompanying Web site contains solutions and a tutorial for the implementation of the computational modeling techniques Calculations can be done in modern computing languages such as Maple Mathematica and MATLAB

New Directions and Applications in Control Theory Wijesuriya P. Dayawansa, Anders Lindquist, Yishao Zhou, 2005-08-31 This volume contains a collection of papers in control theory and applications presented at a conference in honor of Clyde Martin on the occasion of his 60th birthday held in Lubbock Texas November 14 15 2003

Mathematical Aspects of Pattern Formation in Biological Systems Juncheng Wei, Matthias Winter, 2013-09-18 This monograph is concerned with the mathematical analysis of patterns which are encountered in biological systems It summarises expands and relates results obtained in the field during the last fifteen years It also links the results to biological applications and highlights their relevance to phenomena in nature Of particular concern are large amplitude patterns far from equilibrium in biologically relevant models The approach adopted in the monograph is based on the following paradigms Examine the existence of spiky steady states in reaction diffusion systems and select as observable patterns only the stable ones Begin by exploring spatially

homogeneous two component activator inhibitor systems in one or two space dimensions Extend the studies by considering extra effects or related systems each motivated by their specific roles in developmental biology such as spatial inhomogeneities large reaction rates altered boundary conditions saturation terms convection many component systems Mathematical Aspects of Pattern Formation in Biological Systems will be of interest to graduate students and researchers who are active in reaction diffusion systems pattern formation and mathematical biology

Exercises in Applied Mathematics Daniel Alpay, 2024-05-09 This text presents a collection of mathematical exercises with the aim of guiding readers to study topics in statistical physics equilibrium thermodynamics information theory and their various connections It explores essential tools from linear algebra elementary functional analysis and probability theory in detail and demonstrates their applications in topics such as entropy machine learning error correcting codes and quantum channels The theory of communication and signal theory are also in the background and many exercises have been chosen from the theory of wavelets and machine learning Exercises are selected from a number of different domains both theoretical and more applied Notes and other remarks provide motivation for the exercises and hints and full solutions are given for many For senior undergraduate and beginning graduate students majoring in mathematics physics or engineering this text will serve as a valuable guide as they move on to more advanced work

An Introduction to Modeling Neuronal Dynamics Christoph Börgers, 2017-04-17 This book is intended as a text for a one semester course on Mathematical and Computational Neuroscience for upper level undergraduate and beginning graduate students of mathematics the natural sciences engineering or computer science An undergraduate introduction to differential equations is more than enough mathematical background Only a slim high school level background in physics is assumed and none in biology Topics include models of individual nerve cells and their dynamics models of networks of neurons coupled by synapses and gap junctions origins and functions of population rhythms in neuronal networks and models of synaptic plasticity An extensive online collection of Matlab programs generating the figures accompanies the book

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

Computational Neuroendocrinology Duncan J. MacGregor, Gareth Leng, 2016-03-03 Neuroendocrinology with its well defined functions inputs and outputs is one of the most fertile grounds for computational modeling in neuroscience But modeling is often seen as something of a dark art This book aims to display the power of modeling approaches in

neuroendocrinology and to showcase its potential for understanding these complex systems A recurring theme in neuroendocrinology is rhythms How are rhythms generated and what purpose do they serve Are these two questions inextricably intertwined This book is written for innocents presuming no math beyond high school or computing beyond calculators It seeks to lead the curious into the thinking of the modeler providing the tools to the reader to understand models and even develop their own giving life to paper diagrams The diverse chapters from ion channels to networks systems and hormonal rhythms each tell the story of a model serving to join the hard won dots of experimentation mapping a new understanding and revealing hidden knowledge Written by a team of internationally renowned researchers Both print and enhanced e book versions are available Illustrated in full colour throughout This is the fourth volume in a new Series Masterclass in Neuroendocrinology a co publication between Wiley and the INF International Neuroendocrine Federation that aims to illustrate highest standards and encourage the use of the latest technologies in basic and clinical research and hopes to provide inspiration for further exploration into the exciting field of neuroendocrinology Series Editors John A Russell University of Edinburgh UK and William E Armstrong The University of Tennessee USA Written by a team of internationally renowned researchers Both print and enhanced e book versions are available Illustrated in full colour throughout This is the fourth volume in a new Series Masterclass in Neuroendocrinology a co publication between Wiley and the INF International Neuroendocrine Federation that aims to illustrate highest standards and encourage the use of the latest technologies in basic and clinical research and hopes to provide inspiration for further exploration into the exciting field of neuroendocrinology Series Editors John A Russell University of Edinburgh UK and William E Armstrong The University of Tennessee USA

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

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