Mathematical Models in Biology

Leah Edelstein-Keshet

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Marco Cascella

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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 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   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   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 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 *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 **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 *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 *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 **Introduction to Environmental Modeling** William G. Gray,Genetha A. Gray,2017 This textbook presents the timeless basic physical and mathematical principles and philosophy of environmental modeling to students who need to be taught how to think in a different way than they would for more narrowly defined engineering or physics problems Examples come from a range of hydrologic atmospheric and geophysical problems *Mathematical Modeling of Collective Behavior in Socio-Economic and Life Sciences* Giovanni Naldi,Lorenzo Pareschi,Giuseppe Toscani,2010-08-12 Mathematical modeling using dynamical systems and partial differential equations is now playing an increasing role in the understanding of complex multi scale phenomena Behavior in seemingly different areas such as sociology economics and the life sciences can be described by closely related models Using examples from financial markets and modern warfare to the flocking of birds and the swarming of bacteria the collected research in this volume demonstrates the common methodological approaches and tools for modeling and simulating collective behavior The topics presented point toward new and challenging frontiers of applied mathematics making the volume a useful reference text for applied mathematicians physicists biologists and economists involved in the modeling of socio economic 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 **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 **Nonlinear Physics of Ecosystems** Ehud Meron,2015-04-15 Nonlinear Physics of Ecosystems introduces the concepts and tools of pattern formation theory and demonstrates their utility in ecological research using problems from spatial ecology Written in language understandable to both physicists and ecologists in most parts the book reveals the mechanisms of pattern formation and pattern dynamics It als Topics in Multiple Time Scale Dynamics Maximilian Engel,Hildeberto Jard¢n-Kojakhmetov,Cinzia Soresina,2024-10-21 This volume contains the proceedings of the BIRS Workshop Topics in Multiple Time Scale Dynamics held from November 27 December 2 2022 at the Banff International Research Station Banff Alberta Canada The area of multiple scale dynamics is rapidly evolving marked by significant theoretical breakthroughs and practical applications The workshop facilitated a convergence of experts from various sub disciplines encompassing topics like blow up techniques for ordinary differential equations ODEs singular perturbation theory for stochastic differential equations SDE homogenization and averaging slow fast maps numerical approaches and network dynamics including their applications in neuroscience and climate science This volume provides a wide ranging perspective on the current challenging subjects being explored in the field including themes such as novel approaches to blowing up and canard theory in unique contexts complex multi scale challenges in PDEs and the role of stochasticity in multiple scale systems **A Guide To Lie Systems With Compatible Geometric Structures** Javier De Lucas Araujo,Cristina Sardon Munoz,2020-01-22 The book presents a comprehensive guide to the study of Lie systems from the fundamentals of differential geometry to the development of contemporary research topics It embraces several basic

topics on differential geometry and the study of geometric structures while developing known applications in the theory of Lie systems The book also includes a brief exploration of the applications of Lie systems to superequations discrete systems and partial differential equations Offering a complete overview from the topic s foundations to the present this book is an ideal resource for Physics and Mathematics students doctoral students and researchers **Memoirs of the Scientific Sections of the Academy of the Socialist Republic of Romania** ,2005 **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 theymove on to more advanced work *Large-Scale Networks in Engineering and Life Sciences* Peter Benner,Rolf Findeisen,Dietrich Flockerzi,Udo Reichl,Kai Sundmacher,2014-10-21 This edited volume provides insights into and tools for the modeling analysis optimization and control of large scale networks in the life sciences and in engineering Large scale systems are often the result of networked interactions between a large number of subsystems and their analysis and control are becoming increasingly important The chapters of this book present the basic concepts and theoretical foundations of network theory and discuss its applications in different scientific areas such as biochemical reactions chemical production processes systems biology electrical circuits and mobile agents The aim is to identify common concepts to understand the underlying mathematical ideas and to inspire discussions across the borders of the various disciplines The book originates from the interdisciplinary summer school Large Scale Networks in Engineering and Life Sciences hosted by the International Max Planck Research School Magdeburg September 26 30 2011 and will therefore be of interest to mathematicians engineers physicists biologists chemists and anyone involved in the network sciences In particular due to their introductory nature the chapters can serve individually or as a whole as the basis of graduate courses and seminars future summer schools or as reference material for practitioners in the network sciences **Future Sustainable Ecosystems** Nathaniel K Newlands,2016-10-03 Future Sustainable Ecosystems Complexity Risk Uncertainty provides an interdisciplinary integrative overview of environmental problem solving using statistics It shows how statistics can be used to solve diverse environmental and socio economic problems involving food water energy scarcity and climate change risks It synthesizes interdisciplinary theory concepts definitions models and findings involved in complex global sustainability problem solving making it an

essential guide and reference It includes real world examples and applications making the book accessible to a broader interdisciplinary readership Discussions include a broad integrated perspective on sustainability integrated risk multi scale changes and impacts taking place within ecosystems worldwide State of the art statistical techniques including Bayesian hierarchical spatio temporal agent based and game theoretic approaches are explored The author then focuses on the real world integration of observational and experimental data and its use within statistical models

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