

FRONTIERS IN APPLICATIONS OF MATHEMATICS

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Mathematical Models for Biological Pattern Formation



Springer

Mathematical Models For Biological Pattern Formulation Frontiers In Biological Mathematics

Kristine K. Fowler



Mathematical Models For Biological Pattern Formation Frontiers In Biological Mathematics:

Mathematical Models for Biological Pattern Formation Philip K. Maini, Hans G. Othmer, 2012-12-06 This 121st IMA volume entitled MATHEMATICAL MODELS FOR BIOLOGICAL PATTERN FORMATION is the first of a new series called FRONTIERS IN APPLICATION OF MATHEMATICS The FRONTIERS volumes are motivated by IMA programs and workshops but are specially planned and written to provide an entree to and assessment of exciting new areas for the application of mathematical tools and analysis The emphasis in FRONTIERS volumes is on surveys exposition and outlook to attract more mathematicians and other scientists to the study of these areas and to focus efforts on the most important issues rather than papers on the most recent research results aimed at an audience of specialists The present volume of peer reviewed papers grew out of the 1998 99 IMA program on Mathematics in Biology in particular the Fall 1998 emphasis on Theoretical Problems in Developmental Biology and Immunology During that period there were two workshops on Pattern Formation and Morphogenesis organized by Professors Murray Maini and Othmer James Murray was one of the principal organizers for the entire year program I am very grateful to James Murray for providing an introduction and to Philip Maini and Hans Othmer for their excellent work in planning and preparing this first FRONTIERS volume I also take this opportunity to thank the National Science Foundation whose financial support of the IMA made the Mathematics in Biology program possible

Frontiers in Mathematical Biology Simon A. Levin, 2013-03-13 From a mathematical point of view physiologically structured population models are an underdeveloped branch of the theory of infinite dimensional dynamical systems We have called attention to four aspects i A choice has to be made about the kind of equations one extracts from the predominantly verbal arguments about the basic assumptions and subsequently uses as a starting point for a rigorous mathematical analysis Though differential equations are easy to formulate different mechanisms don't interact in infinitesimal time intervals and so end up as separate terms in the equations they may be hard to interpret rigorously as infinitesimal generators Integral equations constitute an attractive alternative ii The ability of physiologically structured population models to increase our understanding of the relation between mechanisms at the μ level and phenomena at the p level will depend strongly on the development of dynamical systems lab facilities which are applicable to this class of models iii Physiologically structured population models are ideally suited for the formulation of evolutionary questions Apart from the special case of age see Charlesworth 1980 Yodzis 1989 Caswell 1989 and the references given there hardly any theory exists at the moment This will hopefully change rapidly in the coming years Again the development of appropriate software may turn out to be crucial

Cellular Automaton Modeling of Biological Pattern Formation Andreas Deutsch, Sabine Dormann, 2007-12-26 This book focuses on a challenging application field of cellular automata pattern formation in biological systems such as the growth of microorganisms dynamics of cellular tissue and tumors and formation of pigment cell patterns These phenomena resulting from complex cellular interactions cannot be deduced solely from experimental analysis but can

be more easily examined using mathematical models in particular cellular automaton models While there are various books treating cellular automaton modeling this interdisciplinary work is the first one covering biological applications The book is aimed at researchers practitioners and students in applied mathematics mathematical biology computational physics bioengineering and computer science interested in a cellular automaton approach to biological modeling **Spatial**

Dynamics and Pattern Formation in Biological Populations Ranjit Kumar Upadhyay, Satteluri R. K. Iyengar, 2021-02-23

The book provides an introduction to deterministic and some stochastic modeling of spatiotemporal phenomena in ecology epidemiology and neural systems A survey of the classical models in the fields with up to date applications is given The book begins with detailed description of how spatial dynamics diffusive processes influence the dynamics of biological populations These processes play a key role in understanding the outbreak and spread of pandemics which help us in designing the control strategies from the public health perspective A brief discussion on the functional mechanism of the brain single neuron models and network level with classical models of neuronal dynamics in space and time is given Relevant phenomena and existing modeling approaches in ecology epidemiology and neuroscience are introduced which provide examples of pattern formation in these models The analysis of patterns enables us to study the dynamics of macroscopic and microscopic behaviour of underlying systems and travelling wave type patterns observed in dispersive systems Moving on to virus dynamics authors present a detailed analysis of different types models of infectious diseases including two models for influenza five models for Ebola virus and seven models for Zika virus with diffusion and time delay A Chapter is devoted for the study of Brain Dynamics Neural systems in space and time Significant advances made in modeling the reaction diffusion systems are presented and spatiotemporal patterning in the systems is reviewed Development of appropriate mathematical models and detailed analysis such as linear stability weakly nonlinear analysis bifurcation analysis control theory numerical simulation are presented Key Features Covers the fundamental concepts and mathematical skills required to analyse reaction diffusion models for biological populations Concepts are introduced in such a way that readers with a basic knowledge of differential equations and numerical methods can understand the analysis The results are also illustrated with figures Focuses on mathematical modeling and numerical simulations using basic conceptual and classic models of population dynamics Virus and Brain dynamics Covers wide range of models using spatial and non spatial approaches Covers single two and multispecies reaction diffusion models from ecology and models from bio chemistry Models are analysed for stability of equilibrium points Turing instability Hopf bifurcation and pattern formations Uses Mathematica for problem solving and MATLAB for pattern formations Contains solved Examples and Problems in Exercises The Book is suitable for advanced undergraduate graduate and research students For those who are working in the above areas it provides information from most of the recent works The text presents all the fundamental concepts and mathematical skills needed to build models and perform analyses Using the Mathematics Literature Kristine K. Fowler, 2004-05-25 This reference serves as a reader

friendly guide to every basic tool and skill required in the mathematical library and helps mathematicians find resources in any format in the mathematics literature It lists a wide range of standard texts journals review articles newsgroups and Internet and database tools for every major subfield in mathematics

Pattern formation in biology Luis Diambra,Paul Formosa-Jordan,David M. Holloway,2023-06-07 *Hyperbolic and Kinetic Models for Self-organised Biological Aggregations* Raluca Eftimie,2019-01-07 This book focuses on the spatio temporal patterns generated by two classes of mathematical models of hyperbolic and kinetic types that have been increasingly used in the past several years to describe various biological and ecological communities Here we combine an overview of various modelling approaches for collective behaviours displayed by individuals cells bacteria that interact locally and non locally with analytical and numerical mathematical techniques that can be used to investigate the spatio temporal patterns produced by said individuals cells bacteria Richly illustrated the book offers a valuable guide for researchers new to the field and is also suitable as a textbook for senior undergraduate or graduate students in mathematics or related disciplines

Computer Modeling and Simulations of Complex Biological Systems, 2nd Edition S. Sitharama Iyengar,1997-11-20 This unique text explores the use of innovative modeling techniques in effecting a better understanding of complex diseases such as AIDS and cancer From a way of representing the computational properties of protein folding problems to computer simulation of bimodal neurons and networks Computer Modeling and Simulations of Complex Biological Systems examines several modeling methodologies and integrates them across a variety of disciplines This interdisciplinary approach suggests new ways to solve complex problems pertaining to biological systems Written in clear and simple terms appropriate for both the novice and the experienced researcher the book presents a step by step approach to the subject and includes numerous examples that explain the concepts presented in the text

Pattern Formation in Morphogenesis Vincenzo Capasso,Misha Gromov,Annick Harel-Bellan,Nadya Morozova,Linda Louise Pritchard,2012-10-03 Pattern Formation in Morphogenesis is a rich source of interesting and challenging mathematical problems The volume aims at showing how a combination of new discoveries in developmental biology and associated modelling and computational techniques has stimulated or may stimulate relevant advances in the field Finally it aims at facilitating the process of unfolding a mutual recognition between Biologists and Mathematicians of their complementary skills to the point where the resulting synergy generates new and novel discoveries It offers an interdisciplinary interaction space between biologists from embryology genetics and molecular biology who present their own work in the perspective of the advancement of their specific fields and mathematicians who propose solutions based on the knowledge grasped from biologists

Multiscale Modeling of Developmental Systems,2007-12-18 Mathematical and computational biology is playing an increasingly important role in the biological sciences This science brings forward unique challenges many of which are at the moment beyond the theoretical techniques available Developmental biology due to its complexity has lagged somewhat behind its sister disciplines such as molecular biology and

population biology in making use of quantitative modeling to further biological understanding This volume comprises work that is among the best developmental modeling available and we feel it will do much to remedy this situation This book is aimed at all those with an interest in the interdisciplinary field of computer and mathematical modeling of multi cellular and developmental systems It is also a goal of the Editors to attract more developmental biologists to consider integrating modeling components into their research Most importantly this book is intended to serve as a portal into this research area for younger scientists especially graduate students and post docs from both biological and quantitative backgrounds Articles written by leading exponents in the field Provides techniques to address multiscale modeling Coverage includes a wide spectrum of modeling approaches Includes descriptions of the most recent advances in the field

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