

Mathematical Modeling Of Biological Systems

Andreas Deutsch,Rafael Bravo de la Parra,Rob J. de Boer,Odo Diekmann,Peter Jagers,Eva Kisdi,Mirjam Kretzschmar,Petr Lansky,Hans Metz

Mathematical Modeling Of Biological Systems:

Mathematical Modeling in Systems Biology Brian P. Ingalls,2013-07-05 An introduction to the mathematical concepts and techniques needed for the construction and analysis of models in molecular systems biology Systems techniques are integral to current research in molecular cell biology and system level investigations are often accompanied by mathematical models. These models serve as working hypotheses they help us to understand and predict the behavior of complex systems. This book offers an introduction to mathematical concepts and techniques needed for the construction and interpretation of models in molecular systems biology. It is accessible to upper level undergraduate or graduate students in life science or engineering who have some familiarity with calculus and will be a useful reference for researchers at all levels. The first four chapters cover the basics of mathematical modeling in molecular systems biology. The last four chapters address specific biological domains treating modeling of metabolic networks of signal transduction pathways of gene regulatory networks and of electrophysiology and neuronal action potentials. Chapters 3 8 end with optional sections that address more specialized modeling topics. Exercises solvable with pen and paper calculations appear throughout the text to encourage interaction with the mathematical techniques. More involved end of chapter problem sets require computational software Appendixes provide a review of basic concepts of molecular biology additional mathematical background material and tutorials for two computational software packages XPPAUT and MATLAB that can be used for model simulation and analysis.

Mathematical Modeling of Biological Systems, Volume II Andreas Deutsch, Rafael Bravo de la Parra, Rob J. de Boer, Odo Diekmann, Peter Jagers, Eva Kisdi, Mirjam Kretzschmar, Petr Lansky, Hans Metz, 2007-10-12 Volume II of this two volume interdisciplinary work is a unified presentation of a broad range of state of the art topics in the rapidly growing field of mathematical modeling in the biological sciences Highlighted throughout are mathematical and computational apporaches to examine central problems in the life sciences ranging from the organization principles of individual cells to the dynamics of large populations. The chapters are thematically organized into the following main areas epidemiology evolution and ecology immunology neural systems and the brain and innovative mathematical methods and education The work will be an excellent reference text for a broad audience of researchers practitioners and advanced students in this rapidly growing field at the intersection of applied mathematics experimental biology and medicine computational biology biochemistry computer Mathematical Modeling of Biological Systems, Volume I Andreas Deutsch, Lutz Brusch, Helen science and physics Byrne.Gerda de Vries, Hanspeter Herzel, 2007-06-15 Volume I of this two volume interdisciplinary work is a unified presentation of a broad range of state of the art topics in the rapidly growing field of mathematical modeling in the biological sciences The chapters are thematically organized into the following main areas cellular biophysics regulatory networks developmental biology biomedical applications data analysis and model validation. The work will be an excellent reference text for a broad audience of researchers practitioners and advanced students in this rapidly growing field at the intersection

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biomedical applications data analysis and model validation The work will be an excellent reference text for a broad audience of researchers practitioners and advanced students in this rapidly growing field at the intersection of applied mathematics experimental biology and medicine computational biology biochemistry computer science and physics Modeling of Complex Biological Systems Abdelghani Bellouquid, Marcello Delitala, 2006-08-17 This book describes the evolution of several socio biological systems using mathematical kinetic theory Specifically it deals with modeling and simulations of biological systems whose dynamics follow the rules of mechanics as well as rules governed by their own ability to organize movement and biological functions It proposes a new biological model focused on the analysis of competition between cells of an aggressive host and cells of a corresponding immune system Proposed models are related to the generalized Boltzmann equation The book may be used for advanced graduate courses and seminars in biological systems modeling Dynamical Modeling of Biological Systems Stilianos Louca, 2023-06-07 This book introduces concepts and practical tools for dynamical mathematical modeling of biological systems Dynamical models describe the behavior of a system over time as a result of internal feedback loops and external forcing based on mathematically formulated dynamical laws similarly to how Newton's laws describe the movement of celestial bodies Dynamical models are increasingly popular in biology as they tend to be more powerful than static regression models. This book is meant for undergraduate and graduate students in physics applied mathematics and data science with an interest in biology as well as students in biology with a strong interest in mathematical methods The book covers deterministic models for example differential equations stochastic models for example Markov chains and autoregressive models and model independent aspects of time series analysis Plenty of examples and exercises are included often taken or inspired from the scientific literature and covering a broad range of topics such as neuroscience cell biology genetics evolution ecology microbiology physiology epidemiology and conservation The book delivers generic modeling techniques used across a wide range of situations in biology and hence readers from other scientific disciplines will find that much of the material is also applicable in their own field Proofs of most mathematical statements are included for the interested reader but are not essential for a practical understanding of the material The book introduces the popular scientific programming language MATLAB as a tool for simulating models fitting models to data and visualizing data and model predictions The material taught is current as of MATLAB version 2022b The material is taught in a sufficiently general way that also permits the use of alternative programming languages

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