

Jane Crozin

Cambridge Studies in Mathematical Biology

Mathematical aspects of Hodgkin-Huxley neural theory



Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology

Lynn Arthur Steen



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Hodgkin-Huxley Neural Theory Jane Cronin, 1987-08-28 This book is an introduction to the study of mathematical models of electrically active cells which play an essential role in for example nerve conduction and cardiac functions This is an important and vigorously researched field In the book Dr Cronin synthesizes and reviews this material and provides a detailed discussion of the Hodgkin Huxley model for nerve conduction which forms the cornerstone of this body of work Her treatment includes a derivation of the Hodgkin Huxley model which is a system of four nonlinear differential equations a discussion of the validity of this model and a summary of some of the mathematical analysis carried out on this model Special emphasis is placed on singular perturbation theory and arguments both mathematical and physiological for using the perturbation viewpoint are presented **Bioengineering Approaches to Pulmonary Physiology and Medicine** M.C.K.

Khoo, 2007-08-20 As the current millennium steams towards a close one cannot help but look with amazement at the incredible amount of progress that has been achieved in medicine in just the last few decades A key contributing factor to this success has been the importation and blending of ideas and techniques from disciplines outside the traditional borders of medical science In recent years the most well known example is the cross pollination between molecular biology and medicine Advances driven by this potent combination have spawned the vision of a future where cures based on gene therapy become commonplace Yet as we continue our search for magic bullets in the quest to eradicate disease it important to recognize the value of other less heralded interdisciplinary efforts that have laid a large part of the foundation of present day medicine In pulmonary medicine the contribution from the bioengineers a diverse collection of individuals cross bred to various degrees in mathematical modeling and experimental physiology has been larger and more sustained than in many other medical specialties It is easy to point to the vast array of ventilators blood gas analyzers oximeters pulmonary function devices and respiration monitors that are present in any modern clinical setting as solid evidence of the successful synergy between engineering science and pulmonary medicine However one must not forget the less tangible but perhaps more important contributions that have been derived from mathematical modeling and computer simulation without which many of these modern instruments would not have come into existence Mathematical Ecology of Plant Species Competition

Anthony G. Pakes, Ross A. Maller, 1990 Presented in this document is a class of deterministic models describing the dynamics of two plant species whose characteristics are common to the majority of annual plants that have a seedbank Formulated in terms of elementary dynamical systems these models were developed in response to four major questions on the long term

outcomes of binary mixtures of plant species Is ultimate coexistence possible If not which strain will win Does the mixture approach an equilibrium If so how long does the mixture take to attain it The book gives a detailed account of model construction analysis and application to field data obtained from long term trials In the particular case study modelled the species involved are two pastoral strains whose dynamics have critical agricultural and economic implications for the areas in which they are found including North America the Mediterranean region and Australia This study will be valuable to researchers and students in mathematical biology and to agronomists and botanists interested in population dynamics

Biological Kinetics Lee A. Segel,1991 This book demonstrates how an understanding of biological kinetics can lead to knowledge about the biological model being examined An Introduction to the Mathematics of Neurons Frank C.

Hoppensteadt,F. C. Hoppensteadt,1997-06-28 This book describes the signal processing aspects of neural networks It begins with a presentation of the necessary background material in electronic circuits mathematical modeling and analysis signal processing and neurosciences and then proceeds to applications These applications include small networks of neurons such as those used in control of warm up and flight in moths and control of respiration during exercise in humans Next a theory of mnemonic surfaces is developed and studied and material on pattern formation and cellular automata is presented Finally large networks are studied such as the thalamus reticular complex circuit believed to be involved in focusing attention and the development of connections in the visual cortex Additional material is also provided about nonlinear wave propagation in networks This book will serve as an excellent text for advanced undergraduates and graduates in the physical sciences

mathematics engineering medicine and life sciences **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 mathemati Ordinary Differential Equations Jane Cronin,2007-12-14 Designed for a rigorous first course in ordinary differential equations Ordinary Differential Equations Introduction and Qualitative Theory Third Edition includes basic material such as the existence and properties of solutions linear equations autonomous equations and stability as well as more advanced topics in periodic solutions of

Mathematics of Genome Analysis Jerome K. Percus,2002 The massive research effort known as the Human Genome Project is an attempt to record the sequence of the three trillion nucleotides that make up the human genome and to identify individual genes within this sequence While the basic effort is of course a biological one the description and classification of sequences also lend themselves naturally to mathematical and statistical modeling This short textbook on the mathematics of genome analysis presents a brief description of several ways in which mathematics and statistics are being used in genome analysis and sequencing It will be of interest not only to students but also to professional mathematicians curious about the subject *Journal of Mathematical Biology* ,1990 Publishes papers in which mathematics is used to understand biological

phenomena and mathematical papers which answer questions arising from models of biological phenomena

The FitzHugh-Nagumo Model C. Rocsoreanu, A. Georgescu, N. Giurgiteanu, 2012-12-06 The present monograph analyses the FitzHugh Nagumo F N model Le the Cauchy problem for some generalized Van der Pol equation depending on three real parameters a and c This model given in [1, 17] governs the initiation of the cardiac impulse The presence of the three parameters leads to a large variety of dynamics each of them responsible for a specific functioning of the heart For physiologists it is highly desirable to have a global view of all possible qualitatively distinct responses of the F N model for all values of the parameters This reduces to the knowledge of the global bifurcation diagram So far only a few partial results appeared and they were spread throughout the literature Our work provides a more or less complete theoretical and numerical investigation of the complex phase dynamics and bifurcations associated with the F N dynamical system This study includes the static and dynamic bifurcations generated by the variation of a and c and the corresponding oscillations of special interest for applications It enables one to predict all possible types of initiations of heart beats and the mechanism of transformation of some types of oscillations into others by following the dynamics along transient phase space trajectories Of course all these results hold for the F N model The global phase space picture enables one to determine the domain of validity of this model

Modelling Biological Populations in Space and Time Eric Renshaw, 1993-08-26 This volume develops a unifying approach to population studies emphasising the interplay between modelling and experimentation Throughout mathematicians and biologists are provided with a framework within which population dynamics can be fully explored and understood Aspects of population dynamics covered include birth death and logistic processes competition and predator prey relationships chaos reaction time delays fluctuating environments spatial systems velocities of spread epidemics and spatial branching structures Both deterministic and stochastic models are considered Whilst the more theoretically orientated sections will appeal to mathematical biologists the material is presented so that readers with little mathematical expertise can bypass these without losing the main flow of the text

National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1988

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

The Theory of the Chemostat Hal L. Smith, Paul Waltman, 1995-01-27 Basic modelling analysis and simulation of systems that have proven effective in real ecological applications

Current Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70

Epidemic Modelling Daryl J. Daley, Joseph Mark Gani, 1999 This is a general introduction to the mathematical techniques needed to understand epidemiology It begins with an historical outline of some disease statistics before describing simple

deterministic and stochastic models **Evolution in Age-Structured Populations** Brian Charlesworth, 1994-06-30 The populations of many species of animals and plants are age structured i.e. the individuals present at any one time were born over a range of different times and their fertility and survival depend on age. The properties of such populations are important for interpreting experiments and observations on the genetics of populations for animal and plant breeding and for understanding the evolution of features of life histories such as senescence and time of reproduction. In this new edition Brian Charlesworth provides a comprehensive review of the basic mathematical theory of the demography and genetics of age structured populations. The mathematical level of the book is such that it will be accessible to anyone with a knowledge of basic calculus and linear algebra. *The Journal of Neuroscience*, 1988 **Dynamics of Continuous, Discrete & Impulsive Systems**, 2003

Decoding **Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology**: Revealing the Captivating Potential of Verbal Expression

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Table of Contents Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology

1. Understanding the eBook Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology
 - The Rise of Digital Reading Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms

- Features to Look for in an Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology
- User-Friendly Interface
- 4. Exploring eBook Recommendations from Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology
 - Personalized Recommendations
 - Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology User Reviews and Ratings
 - Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology and Bestseller Lists
- 5. Accessing Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology Free and Paid eBooks
 - Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology Public Domain eBooks
 - Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology eBook Subscription Services
 - Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology Budget-Friendly Options
- 6. Navigating Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology Compatibility with Devices
 - Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology
 - Highlighting and Note-Taking Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology

- Interactive Elements Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology
- 8. Staying Engaged with Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology
- 9. Balancing eBooks and Physical Books Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology
 - Setting Reading Goals Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology
 - Fact-Checking eBook Content of Mathematical Aspects Of Hodgkin Huxley Neural Theory Cambridge Studies In Mathematical Biology
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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