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Mathematical Foundations of Neuroscience

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Mathematical Foundations of Neuroscience G. Bard Ermentrout, David H. Terman, 2010-07-01 This book applies methods from nonlinear dynamics to problems in neuroscience. It uses modern mathematical approaches to understand patterns of neuronal activity seen in experiments and models of neuronal behavior. The intended audience is researchers interested in applying mathematics to important problems in neuroscience and neuroscientists who would like to understand how to create models as well as the mathematical and computational methods for analyzing them. The authors take a very broad approach and use many different methods to solve and understand complex models of neurons and circuits. They explain and combine numerical analytical dynamical systems and perturbation methods to produce a modern approach to the types of model equations that arise in neuroscience. There are extensive chapters on the role of noise, multiple time scales, and spatial interactions in generating complex activity patterns found in experiments. The early chapters require little more than basic calculus and some elementary differential equations and can form the core of a computational neuroscience course. Later chapters can be used as a basis for a graduate class and as a source for current research in mathematical neuroscience. The book contains a large number of illustrations, chapter summaries, and hundreds of exercises which are motivated by issues that arise in biology and involve both computation and analysis. Bard Ermentrout is Professor of Computational Biology and Professor of Mathematics at the University of Pittsburgh. David Terman is Professor of Mathematics at the Ohio State University.

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From Computer to Brain William W. Lytton, 2002-10-01 Biology

undergraduates medical students and life science graduate students often have limited mathematical skills Similarly physics math and engineering students have little patience for the detailed facts that make up much of biological knowledge Teaching computational neuroscience as an integrated discipline requires that both groups be brought forward onto common ground This book does this by making ancillary material available in an appendix and providing basic explanations without becoming bogged down in unnecessary details The book will be suitable for undergraduates and beginning graduate students taking a computational neuroscience course and also to anyone with an interest in the uses of the computer in modeling the nervous system

An Introduction to Neural Information Processing Peiji Liang, Si Wu, Fanji Gu, 2015-12-22 This book provides an overview of neural information processing research which is one of the most important branches of neuroscience today Neural information processing is an interdisciplinary subject and the merging interaction between neuroscience and mathematics physics as well as information science plays a key role in the development of this field This book begins with the anatomy of the central nervous system followed by an introduction to various information processing models at different levels The authors all have extensive experience in mathematics physics and biomedical engineering and have worked in this multidisciplinary area for a number of years They present classical examples of how the pioneers in this field used theoretical analysis mathematical modeling and computer simulation to solve neurobiological problems and share their experiences and lessons learned The book is intended for researchers and students with a mathematics physics or informatics background who are interested in brain research and keen to understand the necessary neurobiology and how they can use their specialties to address neurobiological problems It also provides inspiration for neuroscience students who are interested in learning how to use mathematics physics or informatics approaches to solve problems in their field

Mathematics for Neuroscientists Fabrizio Gabbiani, Steven James Cox, 2017-02-04 Mathematics for Neuroscientists Second Edition presents a comprehensive introduction to mathematical and computational methods used in neuroscience to describe and model neural components of the brain from ion channels to single neurons neural networks and their relation to behavior The book contains more than 200 figures generated using Matlab code available to the student and scholar Mathematical concepts are introduced hand in hand with neuroscience emphasizing the connection between experimental results and theory Fully revised material and corrected text Additional chapters on extracellular potentials motion detection and neurovascular coupling Revised selection of exercises with solutions More than 200 Matlab scripts reproducing the figures as well as a selection of equivalent Python scripts

MATLAB for Neuroscientists Pascal Wallisch, Michael E. Lusignea, Marc D. Benayoun, Tanya I. Baker, Adam Seth Dickey, Nicholas G. Hatsopoulos, 2010-07-28 MATLAB for Neuroscientists An Introduction to Scientific Computing in MATLAB is the first comprehensive teaching resource and textbook for the teaching of MATLAB in the Neurosciences and in Psychology MATLAB is unique in that it can be used to learn the entire empirical and experimental process including stimulus generation experimental control data collection data analysis and modeling Thus a

wide variety of computational problems can be addressed in a single programming environment The idea is to empower advanced undergraduates and beginning graduate students by allowing them to design and implement their own analytical tools As students advance in their research careers they will have achieved the fluency required to understand and adapt more specialized tools as opposed to treating them as black boxes Virtually all computational approaches in the book are covered by using genuine experimental data that are either collected as part of the lab project or were collected in the labs of the authors providing the casual student with the look and feel of real data In some cases published data from classical papers are used to illustrate important concepts giving students a computational understanding of critically important research The first comprehensive textbook on MATLAB with a focus for its application in neuroscience Problem based educational approach with many examples from neuroscience and cognitive psychology using real data Authors are award winning educators with strong teaching experience

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

Modeling Neural Circuits Made Simple with Python Robert Rosenbaum, 2024-03-19 An accessible undergraduate textbook in computational neuroscience that provides an introduction to the mathematical and computational modeling of neurons and networks of neurons Understanding the brain is a major frontier of modern science Given the complexity of neural circuits advancing that understanding requires mathematical and computational approaches This accessible undergraduate textbook in computational neuroscience provides an introduction to the mathematical and computational modeling of neurons and networks of neurons Starting with the biophysics of single neurons Robert Rosenbaum incrementally builds to explanations of neural coding learning and the relationship between biological and artificial neural networks Examples with real neural data demonstrate how computational models can be used to understand phenomena observed in neural recordings Based on years of classroom experience the material has been carefully streamlined to provide all the content needed to build a foundation for modeling neural circuits in a one semester course Proven in the classroom Example rich student friendly approach Includes Python code and a mathematical appendix reviewing the requisite background in calculus linear algebra and probability Ideal for engineering science and mathematics majors and for self study

Quantum Boundaries of Life , 2020-11-19 Quantum Boundaries of Life Volume 82 in the Advances in Quantum Chemistry series presents current topics in this rapidly developing field that have emerged at the cross section of mathematics physics chemistry and biology Topics covered include Quantum Considerations of Neural Memory Functional Neural Electron Transport Plasmon polariton mechanism of the saltatory conduction in myelinated axons Quantum Field Theory Formulation of Brain Dynamics Nonequilibrium Multi Field Theory Formulation of Brain Dynamics Quantum Protein Folding Classical Quantum Interplay in Living Neural Tissue Function Quantum Effects in Life Dynamics Quantum transport and utilization of free energy in protein a helices and much more The book s message is simple Mystics prefer to put consciousness in the cosmos to avoid Darwinism If the seat of consciousness is found to evolve within all animals then we have a Darwinian understanding not only of the origin of life and species according to natural selection but also concerning consciousness and in particular life being quantum Darwinian Presents surveys of current topics in this rapidly developing field that has emerged at the cross section of the historically established areas of mathematics physics chemistry and biology Features detailed reviews written by leading international researchers *Computational Models of Brain and Behavior* Ahmed A. Moustafa, 2017-09-11 A comprehensive Introduction to the world of brain and behavior computational models This

book provides a broad collection of articles covering different aspects of computational modeling efforts in psychology and neuroscience. Specifically, it discusses models that span different brain regions: hippocampus, amygdala, basal ganglia, visual cortex, and different species: humans, rats, fruit flies, and different modeling methods: neural network, Bayesian reinforcement learning, data fitting, and Hodgkin-Huxley models, among others. *Computational Models of Brain and Behavior* is divided into four sections: a) Models of brain disorders, b) Neural models of behavioral processes, c) Models of neural processes, brain regions, and neurotransmitters, and d) Neural modeling approaches. It provides in-depth coverage of models of psychiatric disorders including depression, posttraumatic stress disorder, PTSD, schizophrenia, and dyslexia; models of neurological disorders including Alzheimer's disease, Parkinson's disease, and epilepsy; early sensory and perceptual processes; models of olfaction; higher systems level models and low level models; Pavlovian and instrumental conditioning; linking information theory to neurobiology; and more. It covers computational approximations to intellectual disability in Down syndrome. It discusses computational models of pharmacological and immunological treatment in Alzheimer's disease. It examines neural circuit models of the serotonergic system from microcircuits to cognition. It educates on information theory, memory prediction, and timing in associative learning. *Computational Models of Brain and Behavior* is written for advanced undergraduate, Master's, and PhD level students as well as researchers involved in computational neuroscience modeling research.

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