



CELLULAR BIOPHYSICS

ELECTRICAL PROPERTIES

THOMAS FISCHER WEISS

Cellular Biophysics Vol 2 Electrical Properties

Morton H. Friedman



Cellular Biophysics Vol 2 Electrical Properties:

Cellular Biophysics, Volume 2 Thomas Fischer Weiss, 1996-03-06 Cellular Biophysics is a quantitatively oriented basic physiology text for senior undergraduate and graduate students in bioengineering biophysics physiology and neuroscience programs It will also serve as a major reference work for biophysicists Developed from the author's notes for a course that he has taught at MIT for many years these books provide a clear and logical explanation of the foundations of cell biophysics teaching transport and the electrical properties of cells from a combined biological physical and engineering viewpoint Each volume contains introductory chapters that motivate the material and present it in a broad historical context Important experimental results and methods are described Theories are derived almost always from first principles so that students develop an understanding of not only the predictions of the theory but also its limitations Theoretical results are compared carefully with experimental findings and new results appear throughout There are many time tested exercises and problems as well as extensive lists of references The volume on the electrical properties of cells covers both electrically inexcitable cells as well as electrically excitable cells such as neurons and muscle cells Included are chapters on lumped parameter and distributed parameter models of cells linear electric properties of cells the Hodgkin Huxley model of the giant axon of the squid saltatory conduction in myelinated nerve fibers and voltage gated ion channels

Introduction to Cellular Biophysics, Volume 2 Armin Kargol, 2019-12-13 All living matter is comprised of cells small compartments isolated from the environment by a cell membrane and filled with concentrated solutions of various organic and inorganic compounds Some organisms are single cell where all life functions are performed by that cell Others have groups of cells or organs specializing in one particular function The survival of the entire organism depends on all of its cells and organs fulfilling their roles While the cells are studied by different sciences they are seen differently by biologists chemists or physicists Biologists concentrate their attention on cell structure and function What the cells consists of Where are its organelles What function each organelle fulfils From a chemists point of view a cell is a complex chemical reaction chamber where various molecules are synthesized or degraded The main question is how these sometimes very complicated chains of reactions are controlled Finally from a physics standpoint some of the fundamental questions are about the physical movement of all these molecules between organelles within the cell their exchange with the extracellular medium as well as electrical phenomena resulting from such transport The aim of this book is to look into the basic physical phenomena occurring in cells These physical transport processes facilitate chemical reactions in the cell and various electrical effects and that in turn leads to biological functions necessary for the cell to satisfy its role in the mother organism Ultimately the goals of every cell are to stay alive and to fulfill its function as a part of a larger organ or organism The first volume of this book is an inventory of physical transport processes occurring in cells while this second volume provides a closer look at how complex biological and physiological cell phenomena result from these very basic physical processes

Physical Principles of Electro-Mechano-Biology Christian

Brosseau,2023-09-01 This book covers the recently developed understanding of Electro Mechano Biology EMB in which the focus is primarily on the couplings between the electric and mechanical fields The emphasis lies on the analytical and computational aspects of EMB at the cellular level The book is divided into two parts In the first part the author starts by defining and discussing the relevant basic aspects of the electrical and mechanical properties of cell membranes He provides an overview of some of the ways analytical modelling of cell membrane electrodeformation ED and electroporation EP appears in a variety of contexts as well as a contemporary account of recent developments in computational approaches that can feature in the theory initiative particularly in its attempt to describe the cohort of activities currently underway Intended to serve as an introductory text and aiming to facilitate the understanding of the field to non experts this part does not dwell on the set of topics such as cellular mechanosensing and mechanotransduction irreversible EP and atomistic molecular dynamics modelling of membrane EP The second and larger part of the book is devoted to a presentation of the necessary analytical and computational tools to illustrate the ideas behind EMB and illuminate physical insights Brief notes on the history of EMB and its many applications describing the variety of ideas and approaches are also included In this part the background of the first principles and practical calculation methods are discussed to highlight aspects that cannot be found in a single volume

Cell Physiology Source Book Nick Sperelakis,2012-01-11 Cell Physiology Source Book gathers together a broad range of ideas and topics that define the field It provides clear concise and comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics The 4e contains substantial new material Most chapters have been thoroughly reworked The book includes chapters on important topics such as sensory transduction the physiology of protozoa and bacteria and synaptic transmission Authored by leading researchers in the field Clear concise and comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics Full color illustrations

Biophysics of Computation Christof Koch,2004-10-28 Neural network research often builds on the fiction that neurons are simple linear threshold units completely neglecting the highly dynamic and complex nature of synapses dendrites and voltage dependent ionic currents Biophysics of Computation Information Processing in Single Neurons challenges this notion using richly detailed experimental and theoretical findings from cellular biophysics to explain the repertoire of computational functions available to single neurons The author shows how individual nerve cells can multiply integrate or delay synaptic inputs and how information can be encoded in the voltage across the membrane in the intracellular calcium concentration or in the timing of individual spikes Key topics covered include the linear cable equation cable theory as applied to passive dendritic trees and dendritic spines chemical and electrical synapses and how to treat them from a computational point of view nonlinear interactions of synaptic input in passive and active dendritic trees the Hodgkin Huxley model of action potential generation and propagation phase space analysis linking stochastic ionic channels to membrane dependent currents calcium and potassium currents and their role in information processing the role of

diffusion buffering and binding of calcium and other messenger systems in information processing and storage short and long term models of synaptic plasticity simplified models of single cells stochastic aspects of neuronal firing the nature of the neuronal code and unconventional models of sub cellular computation Biophysics of Computation Information Processing in Single Neurons serves as an ideal text for advanced undergraduate and graduate courses in cellular biophysics computational neuroscience and neural networks and will appeal to students and professionals in neuroscience electrical and computer engineering and physics

Cell Physiology Source Book Nicholas Sperelakis, 2011-11-29 Cell Physiology Source Book gathers together a broad range of ideas and topics that define the field It provides clear concise and comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics The 4e contains substantial new material Most chapters have been thoroughly reworked The book includes chapters on important topics such as sensory transduction the physiology of protozoa and bacteria and synaptic transmission Authored by leading researchers in the field Clear concise and comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics Full color illustrations

Electrical Circuits in Biomedical Engineering Ali Ümit Keskin, 2017-05-03 This book presents a comprehensive and in depth analysis of electrical circuit theory in biomedical engineering ideally suited as textbook for a graduate course It contains methods and theory but the topical focus is placed on practical applications of circuit theory including problems solutions and case studies The target audience comprises graduate students and researchers and experts in electrical engineering who intend to embark on biomedical applications

Neural Engineering Bin He, 2013-01-09 Neural Engineering 2nd Edition contains reviews and discussions of contemporary and relevant topics by leading investigators in the field It is intended to serve as a textbook at the graduate and advanced undergraduate level in a bioengineering curriculum This principles and applications approach to neural engineering is essential reading for all academics biomedical engineers neuroscientists neurophysiologists and industry professionals wishing to take advantage of the latest and greatest in this emerging field

Methods in Neuronal Modeling Christof Koch, Idan Segev, 1998 Kinetic Models of Synaptic Transmission Alain Destexhe Zachary F Mainen Terrence J Sejnowski Cable Theory for Dendritic Neurons Wilfrid Rall Hagai Agmon Snir Compartmental Models of Complex Neurons Idan Segev Robert E Burke Multiple Channels and Calcium Dynamics Walter M Yamada Christof Koch Paul R Adams Modeling Active Dendritic Processes in Pyramidal Neurons Zachary F Mainen Terrence J Sejnowski Calcium Dynamics in Large Neuronal Models Erik De Schutter Paul Smolen Analysis of Neural Excitability and Oscillations John Rinzel Bard Ermentrout Design and Fabrication of Analog VLSI Neurons Rodney Douglas Misha Mahowald Principles of Spike Train Analysis Fabrizio Gabbiani Christof Koch Modeling Small Networks Larry Abbott Eve Marder Spatial and Temporal Processing in Central Auditory Networks Shihab Shamma Simulating Large Networks of Neurons Alexander D Protopapas Michael Vanier James M Bower

Principles and Models of Biological Transport Morton H. Friedman, 2008-12-15 Focus Organization and Content

This book like the first edition deals with the mass transport processes that take place in living systems with a focus on the normal behavior of eukaryotic cells and the organisms they constitute in their normal physiological environment. As a consequence of this focus the structure and content of the book differ from those of traditional transport texts. We do not start with the engineering principles of mass transport which are well presented elsewhere and then seek biological applications of these principles; rather we begin with the biological processes themselves and then develop the models and analytical tools that are needed to describe them. This approach has several consequences. First of all it drives the content of the text in a direction distinctively different from conventional transport texts. This is because the tools and models needed to describe complex biological processes are often different from those employed to describe more well characterized inanimate systems. Many biological processes must still be described phenomenologically using methodologies like nonequilibrium thermodynamics. Simple electrical analogs employing a paucity of parameters can be more useful for characterization and prediction than complex theories based on the behavior of more well defined systems on a laboratory bench. By allowing the biology to drive the choice of analysis tools and models the latter are consistently presented in the context of real biological systems and analysis and biology are interwoven throughout.

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