

On Channels of Excitable Membranes 3rd Edition

Noise in Physical Systems and $1/f$ Noise - 1985
Fundamental Concepts in Biophysics
Biophysics and Physiology of Excitable Membranes
Structure and Dynamics of Nucleic Acids, Proteins, and Membranes
SPECTROSCOPIC MEMBRANE PROBES
Elements of Physiological Psychology
Ionic Channels of Excitable Membranes
Membrane Potential Imaging in the Nervous System
Handbook of Physiology: The cardiovascular system. v. 1. The heart. v. 2. Vascular smooth muscle. v. 3, pt.1-2. Peripheral circulation and organ blood flow
Membrane Physiology of Invertebrates
Outlines of physiological psychology
Svensk-engelsk ordbok
Handbook of Physiology
Progress in Biophysics and Biophysical Chemistry
The Cardiovascular System: The heart
Handbook of Physiology: Neurophysiology. (3 v.)
Recent Advances in Receptor Chemistry
The Cardiovascular System
Elsevier's Encyclopaedic Dictionary of Medicine
Review of Radio Science
A. d'Amico Thomas Jue William J. Adelman E. Clementi Leslie M. Loew George Trumbull Ladd Bertil Hille Marco Canepari Ronald B. Podesta George Trumbull Ladd Carl Gustaf Björkman John Field F. Gualtieri G. Hyde

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these proceedings contain 11 invited papers and approximately 80 contributed papers presented at this international conference the topics covered include noise theory and mechanisms including parametric excitation in physical systems computer simulation of barkhausen jump field distribution and chaotic oscillations in josephson junctions devices including thermal noise in a high inductance squid high frequency noise in schottky barriers diodes and mode fluctuations in semiconductor laser biological systems including resistivity fluctuations in ionic solutions quantum noise including properties of low temperature quantum noise and macroscopic quantum tunneling

in the first volume fundamental concepts in biophysics the authors lay down a foundation for biophysics study rajiv singh opens the book by pointing to the central importance of mathematical methods in biophysics william fink follows with a discussion on quantum mechanics basic to biophysical methods together these two chapters establish some of the principles of mathematical physics underlying many biophysics techniques because computer modeling forms an intricate part of biophysics research subhadip raychaudhuri and colleagues introduce the use of computer modeling in computational modeling of receptor ligand binding and cellular signaling processes yin yeh and coworkers bring to the reader s attention the physical basis underlying the common use of fluorescence spectroscopy in biomedical research in their chapter fluorescence spectroscopy electrophysiologists have also applied biophysics techniques in the study of membrane proteins and tsung yu chen et al explore stochastic processes of ion transport in their electrophysiological measurements of membrane proteins michael saxton takes up a key biophysics question about particle distribution and behavior in systems with spatial or temporal inhomogeneity in his chapter single particle tracking finally in nmr measurement of biomolecule diffusion thomas jue explains how magnetic resonance techniques can map biomolecule diffusion in the cell to a theory of respiratory control this book thus launches the handbook of modern biophysics series and sets up for the reader some of the fundamental concepts underpinning the biophysics issues to be presented in future volumes

this volume collects a number of the invited lectures and a few selected contributions presented at the international symposium on structure and dynamics of nucleic acids proteins and membranes held august 31st through september 5th 1986 in riva del Garda Italy the title of the conference as well as a number of the topics covered represent a continuation of two previous conferences the first held in 1982 at the university of California in San Diego and the second in 1984 in Rome at the Accademia dei Lincei these two earlier conferences have been documented in Structure and Dynamics Nucleic Acids and Proteins edited by E. Clementi and R. H. Sarma Adenine Press New York 1983 and Structure and Motion Membranes Nucleic Acids and Proteins edited by E. Clementi, G. Corongiu, M. H. Sarma and R. H. Sarma Adenine Press New York 1985 at this conference in Riva del Garda we were very hesitant to keep the name of the conference the same as the two previous ones indeed a number of topics discussed in this conference were not included in the previous ones and even the emphasis of this gathering is only partly reflected in the conference title an alternative title would have been structure and dynamics of nucleic acids proteins and higher functions or possibly higher components rather than higher functions

this new fully revised and expanded edition of ionic channels of excitable membranes includes new chapters on fast chemical synapses modulation through G protein coupled receptors and second messenger systems molecules cloning site directed mutagenesis and cell biology it begins with the classical biophysical work of Hodgkin and Huxley and then weaves a description of the known ionic channels together with their biological functions the book continues by developing the physical and molecular principles needed for explaining permeation gating pharmacological modification and molecular diversity and ends with a discussion of channel evolution ionic channels of excitable membranes is written to be accessible and interesting to biological and physical scientists of all kinds

the book is structured in five sections each containing several chapters written by experts and major contributors to particular topics the volume starts with a historical perspective and fundamental principles of membrane potential imaging and continues to cover the measurement of membrane potential signals from dendrites and axons of individual neurons measurements of the activity of many neurons with single cell resolution monitoring of population signals from the nervous system and concludes

with the overview of new approaches to voltage imaging the book is targeted at all scientists interested in this mature but also rapidly expanding imaging approach

intended for medical and scientific personnel the first section is an alphabetical listing of over 11 000 english language entries with concise definitions and word or phrase equivalents in french german italian and spanish indexes for these languages refer to the entry numbers in the english section

electromagnetic metrology laser metrology frequency standards scattering diffraction antennas and arrays optical devices noise and interference remote sensing waves in plasmas radio astronomy ionospheric radio and propagation bioeffects of electromagnetic waves

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