

Biological and Medical Physics, Biomedical Engineering

Philipp O.J. Scherer
Sighart F. Fischer

Theoretical Molecular Biophysics

Second Edition

 Springer

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Peterson's



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Theoretical Molecular Biophysics Philipp O.J. Scherer, Sighart F. Fischer, 2017 Theoretical Molecular Biophysics Philipp O.J. Scherer, Sighart F. Fischer, 2017-11-22 This book gives an introduction to molecular biophysics. It starts from material properties at equilibrium related to polymers, dielectrics, and membranes. Electronic spectra are developed for the understanding of elementary dynamic processes in photosynthesis, including proton transfer and dynamics of molecular motors. Since the molecular structures of functional groups of bio systems were resolved, it has become feasible to develop a theory based on the quantum theory and statistical physics with emphasis on the specifics of the high complexity of bio systems. This introduction to molecular aspects of the field focuses on solvable models. Elementary biological processes provide as a special challenge the presence of partial disorder in the structure, which does not destroy the basic reproducibility of the processes. Apparently, the elementary molecular processes are organized in a way to optimize the efficiency. Learning from nature by means of exploring the relation between structure and function may even help to build better artificial solar cells. The reader is exposed to basic concepts in modern biophysics, such as entropic forces, phase separation, potential of mean force, electron and proton transfer, heterogeneous reactions, coherent and incoherent energy transfer, as well as molecular motors. Basic knowledge in classical and Quantum mechanics, electrostatics, and statistical physics is desirable. Simplified models are presented, which can be solved in limited cases analytically, from the guiding lines to generate the basis for a fundamental understanding of the more complex biophysical systems. Chapters close with challenging problems, whose solutions are provided at the end of the book to complete the pedagogical treatment in the book. To the second edition, several new chapters were added. The medium polarization is treated self-consistently using basic elements of polaron theory and more advanced nonlinear Schrödinger equations to describe the dynamics of solvation. Ion transport through a membrane was extended by the discussion of cooperative effects. Intramolecular transitions are now discussed in the new edition in much more detail, including also radiationless transitions. Very recent developments in spectroscopy are included, especially two-dimensional and hole burning spectroscopy. The discussion of charge transfer processes was extended by including recent results of hole transfer in DNA in connection with the superexchange mechanism. The chapter on molecular motors was rewritten to include the most recent developments of new models. The book is a useful text for students and researchers wanting to go through the mathematical derivations in the theories presented. This book attracts a group of applied, mathematically oriented students and scholars to the exciting field of molecular biophysics. *Biological and medical physics, biomedical engineering*, The Physics of Proteins Hans Frauenfelder, 2010-05-30 Provides an introduction to the structure and function of biomolecules, especially proteins, and the physical tools used to investigate them. The discussion concentrates on physical tools and properties, emphasizing techniques that are contributing to new developments and avoiding those that are already well established and whose results have already been exploited fully. New tools appear

regularly synchrotron radiation proton radiology holography optical tweezers and muon radiography for example have all been used to open new areas of understanding

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Canadian Journal of Physics, 1985

World Congress on Medical Physics and Biomedical Engineering September 7 - 12, 2009 Munich, Germany Olaf Dössel, Wolfgang C. Schlegel, 2010-01-06 Present Your Research to the World The World Congress 2009 on Medical Physics and Biomedical Engineering the triennial scientific meeting of the IUPESM is the world's leading forum for presenting the results of current scientific work in health related physics and technologies to an international audience With more than 2 800 presentations it will be the biggest conference in the fields of Medical Physics and Biomedical Engineering in 2009 Medical physics biomedical engineering and bioengineering have been driving forces of innovation and progress in medicine and healthcare over the past two decades As new key technologies arise with significant potential to open new options in diagnostics and therapeutics it is a multidisciplinary task to evaluate their benefit for medicine and healthcare with respect to the quality of performance and therapeutic output Covering key aspects such as information and communication technologies micro and nanosystems optics and biotechnology the congress will serve as an inter and multidisciplinary platform that brings together people from basic research R D industry and medical application to discuss these issues As a major event for science medicine and technology the congress provides a comprehensive overview and in depth first hand information on new

developments advanced technologies and current and future applications With this Final Program we would like to give you an overview of the dimension of the congress and invite you to join us in Munich Olaf D ssel Congress President Wolfgang C

Computational Modeling of Biological Systems Nikolay V Dokholyan,2012-02-12 Computational modeling is emerging as a powerful new approach to study and manipulate biological systems Multiple methods have been developed to model visualize and rationally alter systems at various length scales starting from molecular modeling and design at atomic resolution to cellular pathways modeling and analysis Higher time and length scale processes such as molecular evolution have also greatly benefited from new breeds of computational approaches This book provides an overview of the established computational methods used for modeling biologically and medically relevant systems *Physics Of Cancer, The: Research Advances* Bernard S Gerstman,2020-12-03 Cancer deaths per capita have decreased in recent years but the improvement is attributed to prevention not treatment The difficulty in treating cancer may be due to its complexity in the mathematical physics sense of the word Tumors evolve and spread in response to internal and external factors that involve feedback mechanisms and nonlinear behavior Investigations of the nonlinear interactions among cells and between cells and their environment are crucial for developing a sufficiently detailed understanding of the system s emergent phenomenology to be able to control the behavior In the case of cancer controlling the system s behavior will mean the ability to treat and cure the disease Physicists have been studying various complex nonlinear systems for many years using a variety of techniques These investigations have provided insights that allow physicists to make unique contributions towards the treatment of cancer This interdisciplinary book presents recent advancements in physicists research on cancer The work presented in this volume uses a variety of physical biochemical mathematical theoretical and computational techniques to gain a deeper molecular and cellular understanding of the horrific disease that is cancer Molecular Basis for Mitochondrial Signaling Tatiana K. Rostovtseva,2017-05-12 This book covers recent advances in the study of structure function and regulation of metabolite protein and ion translocating channels and transporters in mitochondria A wide array of cutting edge methods are covered ranging from electrophysiology and cell biology to bioinformatics as well as structural systems and computational biology At last the molecular identity of two important channels in the mitochondrial inner membrane the mitochondrial calcium uniporter and the mitochondrial permeability transition pore have been established After years of work on the physiology and structure of VDAC channels in the mitochondrial outer membrane there have been multiple discoveries on VDAC permeation and regulation by cytosolic proteins Recent breakthroughs in structural studies of the mitochondrial cholesterol translocator reveal a set of novel unexpected features and provide essential clues for defining therapeutic strategies Molecular Basis for Mitochondrial Signaling covers these and many more recent studies of mitochondria function their communication with other organelles and their critical roles in development aging and in a plethora of stressful or degenerative events Authored by leading researchers in the field this volume will be an indispensable reference resource for graduate students and academics

working in related areas of biophysics and cell biology as well as for professionals within industry **Chekhoslovatskii Fizicheskii Zhurnal. Czechoslovak Journal of Physics** ,1986 **Current Catalog** National Library of Medicine (U.S.),1992 First multi year cumulation covers six years 1965 70 *The Molecular Theory of Radiation Biology* K. H. Chadwick,H. P. Leenhouts,2012-12-06 In late 1971 we were involved in a study of the interaction of radiation with matter and were trying to use measurements of radiation fluorescence in biological molecules to indicate how radiation affected living cells It soon became apparent that we were working in the dark the doses we used to get a significant signal were too large to be of interest for radiation biology and although the DNA molecule appeared to be the most likely target molecule we did not know which sort of events and which sort of lesions were the most important We decided to alter our approach to see if we could find any consistent mathematical order in the radiobiological dose relationships We found that cell survival curves could be very usefully described by a linear quadratic dose relationship and very soon came to the somewhat premature but as it turned out most effective conclusion that the induction of DNA double strand breaks should be linear quadratic In deciding that the DNA double strand break was the crucial and all important lesion we were able to associate the mathematical analysis with the biology of the cell and were able to relate known properties of the DNA molecule to known radiobiological effects On the other hand we were restricted and brought from an abstract two hit lesion which could have any property one wished down to earth to a defined molecular structure of nanometer dimensions and well known functions and properties *Laser Interaction with Biological Material* Kirill Kulikov,2013-09-16 This book covers the principles of laser interaction with biological cells and tissues of varying degrees of organization The problems of biomedical diagnostics are considered Scattering of laser irradiation of blood cells is modeled for biological structures dermis epidermis vascular plexus An analytic theory is provided which is based on solving the wave equation for the electromagnetic field It allows the accurate analysis of interference effects arising from the partial superposition of scattered waves Treated topics of mathematical modeling are optical characterization of biological tissue with large scale and small scale inhomogeneities in the layers heating blood vessel under laser irradiation incident on the outer surface of the skin and thermo chemical denaturation of biological structures at the example of human skin Subject Guide to Children's Books in Print 1997 Bowker Editorial Staff,R R Bowker Publishing,1996-09 **Scientific and Technical Aerospace Reports** ,1970

Subject Guide to Books in Print ,1997 **What is Medicine?** Alexander V. Chalyi,2025-02-20 This book looks into the world of medicine through a unique lens the principles of physics Beginning with a brief history of medical physics and Feynman's classification of natural phenomena it delves into topics such as the electrical activity of cells and the physical basis of synaptic transmission using nonlinear models that reveal their behavior as a strange attractor Using a synergetic analogy between similar processes occurring in physical and neurophysiological systems the author is able to formulate the first principle describing the emergence of hexagonal grid cells structures in the brain It also explores the use of thermal

imaging in the diagnosis the dosimetry of ionizing radiation and the physical basis of effective methods of quantum mechanics in modern medicine Through detailed discussion of topics including synergetics physiology neurology and radiation medicine the reader gains a deep understanding of the physics behind medical diagnostics and treatments Each chapter is devoted to exploring one of the directions of theoretical or clinical medicine featuring parts written on different popular and rigorous physical levels Providing a comprehensive overview of the physical principles of medicine and how they relate to medical equipment and technology this book is a bridge between the fields of medicine and physics demonstrating how the two can work together to advance the science of healthcare This book is a valuable resource for anyone interested in the intersection of medicine and physics and the possibilities for future innovation

Theoretical Molecular Biophysics Biological And Medical Physics Biomedical Engineering Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Theoretical Molecular Biophysics Biological And Medical Physics Biomedical Engineering**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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