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Molecular biophysics is a rapidly evolving interdisciplinary area of research that combines concepts in physics, chemistry, engineering, mathematics and biology. It seeks to understand biomolecular systems and explain biological function in terms of molecular structure, structural organization, and dynamic behaviour at various levels of complexity. This discipline covers topics such as the measurement of molecular forces, molecular associations, allosteric interactions, Brownian motion, and cabl

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Molecular Biophysics: Structures in Motion: Michel Daune ...

Molecular biophysics : structures in motion / Michel Daune ; translated from the French by W.J. Duffin ; with a foreword by David Blow. QH 506 D38413 1999 Basic methods in molecular biology / Leonard G. Davis, Mark D. Dabner, James F. Battey.

'Molecular Biophysics' offers a comprehensive introduction to the molecular physics of biological systems. It seeks to explain how the laws and concepts of physics apply to the living world at the molecular and subcellular level, with an emphasis on electrical and dynamical behaviour. This book can be consulted by advanced undergraduates or graduate students taking courses in biophysics, physical biochemistry, molecular biophysics; researchers and instructors in these fields.

Macromolecules in solutions can be distinctly characterised by their transport behaviour in solution phase. The study of the transport processes includes diffusion coefficient, sedimentation coefficient, intrinsic viscosity and friction constant. The question arises as to how to explicitly characterise the macromolecules from the data of coefficients. This book answers this question in a systematic manner. It provides physical interpretation of the data obtained in macromolecular transport phenomena in a given system and also addresses some important issues and concepts related to biopolymers such as proteins and nucleic acids. The application of concepts like conformational properties and salient physicochemical features of protein and nucleic acids is also elucidated in the book. Based on the molecular structure, it provides the essential concepts which can be used to model and analyse the static and transport behaviour of polymers and biopolymers.

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A comprehensive graduate textbook explaining key physical methods in biology, reflecting the very latest research in this fast-moving field.

The first systematic summary of biophysical mass spectrometry techniques. Recent advances in mass spectrometry (MS) have pushed the frontiers of analytical chemistry into the biophysical laboratory. As a result, the biophysical community's acceptance of MS-based methods, used to study protein higher-order structure and dynamics, has accelerated the expansion of biophysical MS. Despite this growing trend, until now no single text has presented the full array of MS-based experimental techniques and strategies for biophysics. *Mass Spectrometry in Biophysics* expertly closes this gap in the literature. Covering the theoretical background and technical aspects of each method, this much-needed reference offers an unparalleled overview of the current state of biophysical MS. *Mass Spectrometry in Biophysics* begins with a helpful discussion of general biophysical concepts and MS-related techniques. Subsequent chapters address: * Modern spectrometric hardware * High-order structure and dynamics as probed by various MS-based methods * Techniques used to study structure and behavior of non-native protein states that become populated under denaturing conditions * Kinetic aspects of protein folding and enzyme catalysis * MS-based methods used to extract quantitative information on protein-ligand interactions * Relation of MS-based techniques to other experimental tools * Biomolecular properties in the gas phase. Fully referenced and containing a helpful appendix on the physics of electrospray mass spectrometry, *Mass Spectrometry in Biophysics* also offers a compelling look at the current challenges facing biomolecular MS and the potential applications that will likely shape its future.

With its detailed and systematic coverage of the current state of biophysical mass spectrometry (MS), here is one of the first systematic presentations of the full experimental array of MS-based techniques used in biophysics, covering both fundamental and practical issues. The book presents a discussion of general biophysical concepts and a brief overview of traditional biophysical techniques before outlining the more advanced concepts of mass spectrometry. The new edition gives an up-to-date and expanded coverage of experimental methodologies and a clear look at MS-based methods for studying higher order structures and biopolymers. A must for researchers in the field of biophysics, structural biology, and protein chemistry.

This book comprehensively addresses the physics and engineering aspects of human physiology by using and building on first-year college physics and mathematics. Topics include the mechanics of the static body and the body in motion, the mechanical properties of the body, muscles in the body, the energetics of body metabolism, fluid flow in the cardiovascular and respiratory systems, the acoustics of sound waves in speaking and hearing, vision and the optics of the eye, the electrical properties of the body, and the basic engineering principles of feedback and control in regulating all aspects of function. The goal of this text is to clearly explain the physics issues concerning the human body, in part by developing and then using simple and subsequently more refined models of the macrophysics of the human body. Many chapters include a brief review of the underlying physics. There are problems at the end of each chapter; solutions to selected problems are also provided. This second edition enhances the treatments of the physics of motion, sports, and diseases and disorders, and integrates discussions of these topics as they appear throughout the book. Also, it briefly addresses physical measurements of and in the body, and offers a broader selection of problems, which, as in the first edition, are geared to a range of student levels. This text is geared to undergraduates interested in physics, medical applications of physics,

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quantitative physiology, medicine, and biomedical engineering.

Physics, mathematics and chemistry all play a vital role in understanding the true nature and functioning of biological membranes, key elements of living processes. Besides simple spectroscopic observations and electrical measurements of membranes we address in this book the phenomena of coexistence and independent existence of different membrane components using various theoretical approaches. This treatment will be helpful for readers who want to understand biological processes by applying both simple observations and fundamental scientific analysis. It provides a deep understanding of the causes and effects of processes inside membranes, and will thus eventually open new doors for high-level pharmaceutical approaches towards fighting membrane- and cell-related diseases.

In his 1959 address, "There is Plenty of Room at the Bottom," Richard P. Feynman speculated about manipulating materials atom by atom and challenged the technical community "to find ways of manipulating and controlling things on a small scale." This visionary challenge has now become a reality, with recent advances enabling atomistic-level tailoring and control of materials. Exemplifying Feynman's vision, *Handbook of Nanoscience, Engineering, and Technology, Third Edition* continues to explore innovative nanoscience, engineering, and technology areas. Along with updating all chapters, this third edition extends the coverage of emerging nano areas even further. Two entirely new sections on energy and biology cover nanomaterials for energy storage devices, photovoltaics, DNA devices and assembly, digital microfluidic lab-on-a-chip, and much more. This edition also includes new chapters on nanomagnet logic, quantum transport at the nanoscale, terahertz emission from Bloch oscillator systems, molecular logic, electronic optics in graphene, and electromagnetic metamaterials. With contributions from top scientists and researchers from around the globe, this color handbook presents a unified, up-to-date account of the most promising technologies and developments in the nano field. It sets the stage for the next revolution of nanoscale manufacturing—where scalable technologies are used to manufacture large numbers of devices with complex functionalities.

The objective of this book is to provide a unifying approach to the study of biophysical chemistry for the advanced undergraduate who has had a year of physics, organic chemistry, calculus, and biology. This book began as a revised edition of *Biophysical Chemistry: Molecules to Membranes*, which Elizabeth Simons and I coauthored. That short volume was written in an attempt to provide a concise text for a one-semester course in biophysical chemistry at the graduate level. The experience of teaching biophysical chemistry to biologically oriented students over the last decade has made it clear that the subject requires a more fundamental text that unifies the many threads of modern science: physics, chemistry, biology, mathematics, and statistics. This book represents that effort. This volume is not a treatment of modern biophysical chemistry with its rich history and many controversies, although a book on that topic is also needed. *The Physical Basis of Biochemistry* is an introduction to the philosophy and practice of an interdisciplinary field in which biological systems are explored using the quantitative perspective of the physical scientist. I have three primary objectives in this volume: one, to provide a unifying picture of the interdisciplinary threads from which the tapestry of biophysical studies is woven; two, to provide an insight into the power of the modeling approach to scientific investigation; and three, to communicate a sense of excitement for the activity and wholesome argument that characterize this field of study.

The richly illustrated book comprehensively explains the important principles of diatomic and

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polyatomic molecules and their spectra in two separate, distinct parts. The first part concentrates on the theoretical aspects of molecular physics, such as the vibration, rotation, electronic states, potential curves, and spectra of molecules. The different methods of approximation for the calculation of electronic wave functions and their energy are also covered. The introduction of basic terms used in group theory and their meaning in molecular physics enables an elegant description of polyatomic molecules and their symmetries. Molecular spectra and the dynamic processes involved in their excited states are given its own chapter. The theoretical part then concludes with a discussion of the field of Van der Waals molecules and clusters. The second part is devoted entirely to experimental techniques, such as laser, Fourier, NMR, and ESR spectroscopies, used in the fields of physics, chemistry, biology, and material science. Time-resolved measurements and the influence of chemical reactions by coherent controls are also treated. A list of general textbooks and specialized literature is provided for further reading. With specific examples, definitions, and notes integrated within the text to aid understanding, this is suitable for undergraduates and graduates in physics and chemistry with a knowledge of atomic physics and familiar with the basics of quantum mechanics.

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