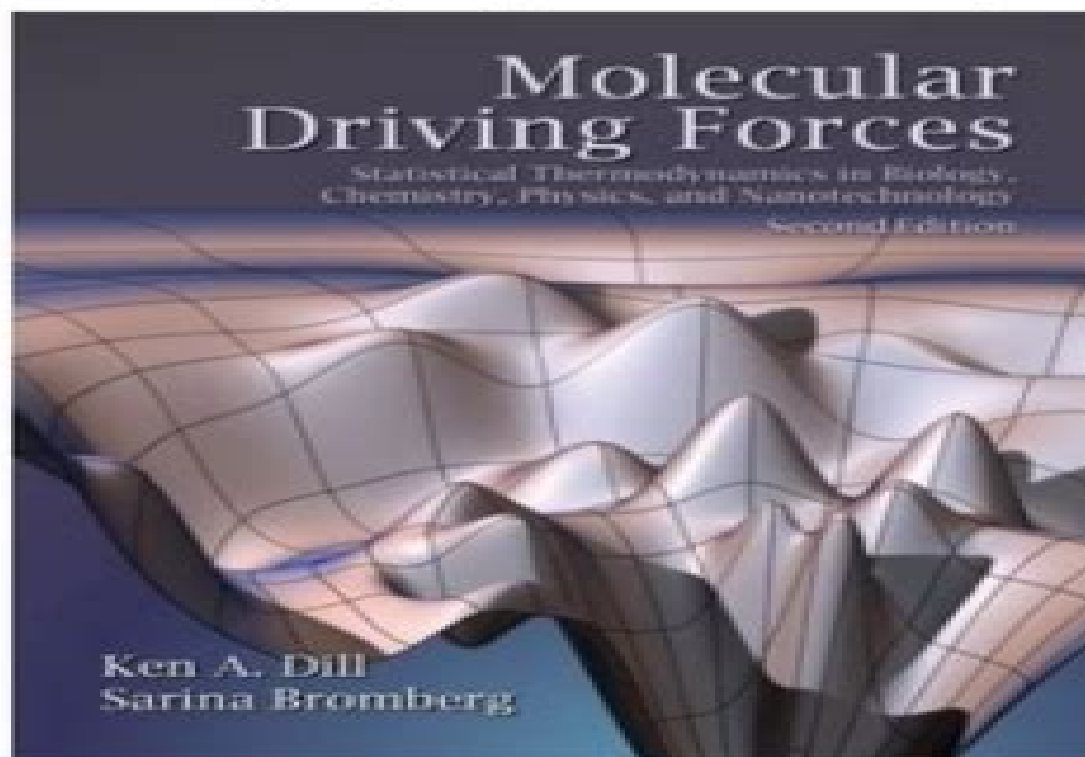


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Protein Actions: Principles and Modeling Ivet Bahar, Robert L. Jernigan, Ken A. Dill, 2017-02-14 Protein Actions Principles and Modeling is aimed at graduates advanced undergraduates and any professional who seeks an introduction to

the biological chemical and physical properties of proteins Broadly accessible to biophysicists and biochemists it will be particularly useful to student and professional structural biologists and molecular biophysicists bioinformaticians and computational biologists biological chemists particularly drug designers and molecular bioengineers The book begins by introducing the basic principles of protein structure and function Some readers will be familiar with aspects of this but the authors build up a more quantitative approach than their competitors Emphasizing concepts and theory rather than experimental techniques the book shows how proteins can be analyzed using the disciplines of elementary statistical mechanics energetics and kinetics These chapters illuminate how proteins attain biologically active states and the properties of those states The book ends with a synopsis the roles of computational biology and bioinformatics in protein science

The Molecules of Life John Kuriyan, Boyana Konforti, David Wemmer, 2012-07-25 The field of biochemistry is entering an exciting era in which genomic information is being integrated into molecular level descriptions of the physical processes that make life possible The Molecules of Life is a new textbook that provides an integrated physical and biochemical foundation for undergraduate students majoring in biology or health s

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Classical and Molecular Thermodynamics of Fluid Systems Juan H. Vera, Grazyna Wilczek-Vera, Claudio Olivera-Fuentes, Costas Panayiotou, 2024-11-14 This text explores the connections between different thermodynamic subjects related to fluid systems In an innovative way it covers the subject from first principles to the state of the art in fundamental and applied topics Using simple nomenclature and algebra it clarifies concepts by returning to the conceptual foundation of thermodynamics The structural elements of classical and molecular thermodynamics of fluid systems presented cover via examples and references both the usefulness and the limitations of thermodynamics for the treatment of practical problems This new edition explores recent advances in statistical associated fluid theories and contains creative end of chapter problems connecting the theory with real life situations It includes new chapters on thermodynamics of polymer solutions

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Entropy and Free Energy in Structural Biology Hagai Meirovitch, 2020-08-14 Computer simulation has become the main engine of development in statistical mechanics In structural biology computer simulation constitutes the main theoretical tool for structure determination of proteins and for calculation of the free energy of binding which are important in drug design Entropy and Free Energy in Structural Biology leads the reader to the simulation technology in a systematic way The book which is structured as a course consists of four parts Part I is a short course on probability theory emphasizing 1 the distinction between the notions of experimental probability probability space and the experimental probability on a computer and 2 elaborating on the mathematical structure of product spaces These concepts are essential for solving probability problems and devising simulation methods in particular for calculating the entropy Part II starts with a short review of classical thermodynamics from which a non traditional derivation of statistical mechanics is devised Theoretical aspects of statistical mechanics are reviewed extensively Part III covers several topics in non equilibrium thermodynamics and statistical mechanics close to equilibrium such as Onsager relations the two Fick's laws and the Langevin and master equations The Monte Carlo and molecular dynamics procedures are discussed as well Part IV presents advanced simulation methods for polymers and protein systems including techniques for conformational search and for calculating the potential of mean force and the chemical potential Thermodynamic integration methods for calculating the absolute entropy and methodologies for calculating the absolute free energy of binding are evaluated Enhanced by a number of solved problems and examples this volume will be a valuable resource to advanced undergraduate and graduate students in chemistry chemical engineering biochemistry biophysics pharmacology and computational biology

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Complex Materials in Physics and Biology F. Mallamace,H.E. Stanley,2012-07-13 The surprising connections which have developed between physics and various fields as diverse as biology and economics now constitute the fascinating research area known as complex materials and systems The study of complex materials and processes is rapidly expanding and many important experimental and theoretical discoveries have been made in recent years Statistical physics is key to exploring this new and expanding field enabling an understanding of real world phenomena comprised of complex materials or exhibiting complex processes This book includes lectures presented at the CLXXVI International School of Physics Enrico Fermi held in Varenna Italy in July 2010 The school focused on recent advances and developing perspectives in the study of complex materials and processes as related to physics and biology The book provides both an introduction and a complete presentation of recent theoretical and experimental developments for each topic Topics addressed include scaling and universality supra molecular systems and solutions polymer systems static and dynamics of liquid water arrested dynamics and jamming dynamics of out of equilibrium systems physics of confined liquids granular matter physics of biological and medical systems networks in physical and social sciences turbulence in physics biology and economics and finally switching phenomena in biology and economics The book provides reviews of these cutting edge topics by leading authorities and will be a reference work useful to both advanced research professionals and beginning graduate students

An Account of the Thermodynamic Entropy Alberto Gianinetti,2017-02-08 The second law of thermodynamics is an example of the fundamental laws that govern our universe and is relevant to every branch of science exploring the physical world This reference summarizes knowledge and concepts about the second law of thermodynamics and entropy A verbatim explanation of chemical thermodynamics is presented by the author making this text easy to understand for chemistry students researchers non experts and educators

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obstacles contribute to this situation the first being the disconnect between the fundamental theories and the underlying physics and the second being the confusing concepts and terminologies involved with the theories While one needn't confront either of these two obstacles to successfully use thermodynamics to solve real problems overcoming both provides access to a greater intuitive sense of the problems and more confidence more strength and more creativity in solving them This book offers an original perspective on thermodynamic science and history based on the three approaches of a practicing engineer academician and historian The book synthesises and gathers into one accessible volume a strategic range of foundational topics involving the atomic theory energy entropy and the laws of thermodynamics *The SAGE Encyclopedia of Theory in Science, Technology, Engineering, and Mathematics* James Mattingly, 2022-09-21 The SAGE Encyclopedia of Theory is a landmark work that examines theory in general and the broad split between the hard and soft sciences a split that is being re-examined as approaches to scientific questions become increasingly multidisciplinary

Dionysian Economics Benjamin Ward, 2016-10-03 Nietzsche distinguished between two forces in art Apollonian which represents order and reason and Dionysian which represents chaos and energy An ideal work of art combines these two characteristics in a believable relatable balance Economists Ward argues have operated for too long under the assumption that their work reflects scientific Apollonian principals when these simply do not or cannot apply constants in economics stand in for variables mathematical equations represent the simplified ideal rather than the complex reality and the core scientific principal of replication is all but ignored In Dionysian Economics Ward encourages economists to reintegrate the standard rigor of the scientific method into their work while embracing the fact that their prime indicators come from notoriously chaotic and changeable human beings Rather than emphasizing its shortfalls compared to an extremely Apollonian science such as physics economics can aspire to the standards of a science that accounts for considerable Dionysian variation such as biology The book proposes that economists get closer to their dynamic objects of study that they avoid the temptation to wish away dynamic complexity by using simplifying assumptions and that they recognize the desire to take risks as fundamentally human

[Bridging Membrane Biophysics to Microbiology: Innovating Towards New Peptide and Peptide-based Antimicrobials](#) Miguel A. R. B. Castanho, Lorenzo Stella, Sattar Taheri-Araghi, Sergey A. Akimov, 2022-02-01

Liquid Crystals and their Computer Simulations Claudio Zannoni, 2022-07-28 A comprehensive introduction to liquid crystals and their computer simulations suitable for students researchers and industrial scientists

Modeling Biomaterials Josef Málek, Endre Süli, 2022-01-21 The investigation of the role of mechanical and mechano chemical interactions in cellular processes and tissue development is a rapidly growing research field in the life sciences and in biomedical engineering Quantitative understanding of this important area in the study of biological systems requires the development of adequate mathematical models for the simulation of the evolution of these systems in space and time Since expertise in various fields is necessary this calls for a multidisciplinary approach This edited volume connects basic physical biological and physiological concepts to methods for the mathematical

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Minorities and Small Numbers from Molecules to Organisms in Biology Takeharu Nagai,Yuichi Togashi,2018-11-03 This book provides an accessible introduction to an exciting new field of life science in which the focus is on small numbers of molecules and minorities within cell populations and their significance for the understanding of biological phenomena Numbers or quantitative data are attracting more attention in cell biology following for example determination of the absolute copy number of each protein species in each bacterial cell and the recognition of leader cells that drive collective cell migration Within this context the authors present recent advances in experimental techniques biological findings and theories A variety of cutting edge topics and issues are addressed with explanation of the ways in which recent developments in the field cast light on seemingly straightforward but difficult to answer questions Readers will learn that we are on the verge of a paradigm shift as the importance of cooperation among groups of molecules in live cells is acknowledged The book is designed to be enjoyable to read and easy to understand It will be of interest for a wide range of readers including young researchers and undergraduate high school students

Artificial Metalloenzymes and MetalloDNAzymes in Catalysis Montserrat Diéguez,Jan-E. Bäckvall,Oscar Pàmies,2018-06-05 An important reference for researchers in the field of metal enzyme hybrid catalysis Artificial Metalloenzymes and MetalloDNAzymes in Catalysis offers a comprehensive review of the most current strategies developed over recent decades for the design synthesis and optimization of these hybrid catalysts as well as material about their application The contributors noted experts in the field present information on the preparation characterization and optimization of artificial metalloenzymes in a timely and authoritative manner The authors present a thorough examination of this interesting new platform for catalysis that combines the excellent selective recognition binding properties of enzymes with transition metal catalysts The text includes information on the various applications of metal enzyme hybrid catalysts for novel reactions offers insights into the latest advances in the field and contains an informative perspective on the future Explores the development of artificial metalloenzymes the modern and strongly evolving research field on the verge of industrial application Contains a comprehensive reference to the research area of metal enzyme hybrid catalysis that has experienced tremendous growth in recent years Includes contributions from leading researchers in the field Shows how this new catalysis combines the selective recognition binding properties of enzymes with transition metal catalysts Written for catalytic chemists bioinorganic chemists biochemists and organic chemists Artificial Metalloenzymes

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