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Erich Heinz

**Mechanics
and Energetics
of Biological
Transport**



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Mechanics And Energetics Of Biological Transport

Hans V. Westerhoff, Karel van Dam



Mechanics And Energetics Of Biological Transport:

Mechanics and Energetics of Biological Transport E. Heinz, 2012-12-06 This book deals with energetics of transport processes largely expressed in terms of the thermodynamics of irreversible processes Since at the present time too little is known about the molecular mechanism of transport the present treatment is based largely on hypothetical models Care has been taken however to define the crucial features of these models as generally as possible so that the equations do not depend too much on hypothetical details Accordingly most equations though developed on the basis of a mobile carrier ferryboat model should apply equally to a conformational model with an appropriate reinterpretation of the symbols To better elucidate the essentials the models are greatly simplified by special assumptions Maximally only two flows are assumed to be present in each model at one time e.g. two solute flows the flow of solvent and of one solute the flow of solvent and of heat The simplifying assumptions may often be unreal Hence the equations should not be applied uncritically to actual mechanisms They may at best serve as a basis on which the more appropriate equations may be developed The book is not designed to give a complete kinetic analysis of the transport processes described The kinetic equations are kept to the minimum required to describe the model concerned and to relate it to the corresponding thermodynamic equations The intention is to stress the close relationship between biosmotic transport and biochemical processes in metabolism

Biological Complexity and the Dynamics of Life Processes J. Ricard, 1999-11-01 The aim of this book is to show how supramolecular complexity of cell organization can dramatically alter the functions of individual macromolecules within a cell The emergence of new functions which appear as a consequence of supramolecular complexity is explained in terms of physical chemistry The book is interdisciplinary at the border between cell biochemistry physics and physical chemistry This interdisciplinarity does not result in the use of physical techniques but from the use of physical concepts to study biological problems In the domain of complexity studies most works are purely theoretical or based on computer simulation The present book is partly theoretical partly experimental and theory is always based on experimental results Moreover the book encompasses in a unified manner the dynamic aspects of many different biological fields ranging from dynamics to pattern emergence in a young embryo The volume puts emphasis on dynamic physical studies of biological events It also develops in a unified perspective this new interdisciplinary approach of various important problems of cell biology and chemistry ranging from enzyme dynamics to pattern formation during embryo development thus paving the way to what may become a central issue of future biology

Biological Systems: Complexity and Artificial Life Jacques Ricard, 2014-05-06 The exponential increase in computing power in the late twentieth century has allowed researchers to gather process and analyze large volumes of information and construct rational paradigms of systems Life sciences are no exception and computing advances have led to the birth of fields such as functional genomics and bioinformatics and facilitated an expansion of our understanding of biological systems Biological Systems Complexity and Artificial Life is an essential primer on systems

biology for biologists and researchers having a multidisciplinary background The volume covers a variety of theoretical models explaining biological processes The book starts with an introductory chapter on the classical molecular biology paradigm and progresses towards concepts related to enzyme kinetics non equilibrium dynamics cellular thermodynamics molecular motion in cells and more The book concludes with a philosophical note on the concept of the biological system

Cumulated Index Medicus ,1977 **Best & Taylor's Physiological Basis of Medical Practice, 13/e with thePoint Access Scratch Code** O. P. Tandon,Y Tripathi,2011-01-01 The thirteenth edition of this classic text continues and further enriches the rich legacy of the previous editions In a clear and authoritative style this edition explains the basic principles of physiology while emphasizing their clinical significance in day to day medical practice **Thermodynamics and Control of Biological Free-energy Transduction** Hans V. Westerhoff,Karel van Dam,1987 This book contains a description of how quantitative notions from physics and chemistry may be applied to biological systems in particular those involved in biological free energy transduction Researchers in the fields of bioenergetics and biochemistry will find this volume to be an excellent in depth review of the subject and an invaluable source of information *Introducing Biological Energetics* Norman W. H. Cheetham,2010-10-08 This novel interdisciplinary text presents biological understanding in terms of general underlying principles treating energy as the overarching theme and emphasizing the all pervading influence of energy transformation in every process both living and non living Key processes and concepts are explained in turn culminating in a description of the overall functioning and regulation of a living cell The book rounds off the story of life with a brief account of the endosymbiotic origins of eukaryotic cells the development of multicellularity and the emergence of modern plants and animals Multidisciplinary research in science is becoming commonplace However as traditional boundaries start to break down researchers are increasingly aware of the deficiencies in their knowledge of related disciplines *Introducing Biological Energetics* redresses the reciprocal imbalance in the knowledge levels of physical and biological scientists in particular Its style of presentation and depth of treatment has been carefully designed to unite these two readerships **Revue roumaine de biochimie** ,1979 *A Handbook of Quantum Mechanics in Drug Discovery* N.B. Singh, *A Handbook of Quantum Mechanics in Drug Discovery* is a comprehensive guide tailored for absolute beginners without a mathematical background offering a clear and accessible introduction to the intricate realm of quantum mechanics as applied to the field of drug discovery Through simplified explanations and practical examples this handbook demystifies complex concepts providing readers with a foundational understanding of quantum mechanics principles and their crucial role in modern pharmaceutical research From elucidating the electronic structure of molecules to exploring quantum algorithms for drug design and prediction this book equips readers with the essential knowledge and insights necessary to navigate the intersection of quantum mechanics and drug discovery with confidence and clarity **Bibliography of Medical Reviews** ,1971 **Scientific and Technical Books and Serials in Print** ,1984 *Subject Index of Current Research Grants and*

Contracts Administered by the National Heart, Lung and Blood Institute National Heart, Lung, and Blood Institute, 1975
Research Awards Index , 1984 **Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants, 1975 Metabolism and Medicine Brian Fertig, 2022-01-25 Chronic disease states of aging should be viewed through the prism of metabolism and biophysical processes at all levels of physiological organization present in the human body This book describes the building blocks of understanding from a reasonable but not high level technical language viewpoint employing the perspective of a clinical physician It brings together concepts from five specific branches of physics relevant to biology and medicine namely biophysics classical electromagnetism thermodynamics systems biology and quantum mechanics Key Features Broad and up to date overview of the field of metabolism especially connecting the spectrum of topics that range from modern physical underpinnings with cell biology to clinical practice Provides a deeper basic science and interdisciplinary understanding of biological systems that broaden the perspectives and therapeutic problem solving Introduces the concept of the Physiological Fitness Landscape which is inspired by the physics of phase transitions This first volume in a two volume set primarily targets an audience of clinical and science students biomedical researchers and physicians who would benefit from understanding each other s language *Berichte Biochimie und Biologie* , 1979
Books in Print , 1991 **Biochemistry** Hector F. DeLuca, Herbert E. Paaren, Heinrich K. Schnoes, Volker Ullrich, Jürgen Reden, Walter Dürckheimer, 1979-08-01 *Books in Print Supplement* , 1982 *South African Journal of Science* , 1980

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