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Solvent-Dependent Flexibility of Proteins and Principles of Their Function

Alex I. Käiväräinen

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Solventdependent Flexibility Of Proteins And Principles Of Their Function

Karl-Heinz Frömming,J. Szejtli



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Kiäiviäriäinen,1985-02-28 Molecular biology has now advanced to the point where it is no longer possible to give a complete review of the available data on the conformational features of proteins New data keep streaming in and there is obviously an urgent need for some sort of general treatment of the subject A systematic treatment of the large amount of data obtained by a great variety of methods on a great variety of objects must be based on the use of models these should be as simple as possible should conform to well established scientific laws and at the same time be sufficiently flexible The validity of the models finally arrived at is then confirmed or otherwise by testing the conclusions arrived at with their aid by means of experiment After a suitable model has been adopted it can be used in analyzing the experimental data Such an analysis may result in one of three possible situations neither the experimental results nor their interpretation contradict the proposed model the experimental results do not contradict the proposed model but their interpretation by the authors does finally both the experimental results and their interpretation may be found to be incompatible with the fundamental principles underlying the proposed model The first situation is clearly the most desirable and presents no difficulties

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The Hierarchic Theory of Liquids and Solids Aleksandr Ivanovich Kaivarainen, Alex Kaivarainen, 2008 Subject Scope Condensed Matter This book presents a review of an original Hierarchic theory of condensed matter general for liquids and solids and its numerous applications Computer programs based on a new theory were used for comprehensive simulations of water and ice physical properties and validation of the theory Condensed matter is considered as a system of 3D standing waves collective excitations of different nature thermal de Broglie waves IR photons and thermal phonons Quantitative interrelation between microscopic mesoscopic as intermediate and macroscopic properties of condensed matter were found New theories of total internal energy including contributions of kinetic and potential energies heat capacity surface tension vapour pressure thermal conductivity viscosity and self diffusion are described

A Study of Enzymes, Volume II Stephen A. Kuby, 2024-12-20 This comprehensive monograph consists of two parts Volume I entitled Enzyme Catalysis Kinetics and Substrate Binding and Volume II entitled Mechanism of Enzyme Action Volume I focuses on several aspects of enzyme catalytic behavior their steady state and transient state kinetics and the thermodynamic properties of substrate binding Packed with figures tables schemes and photographs this volume contains over 1 000 references including references regarding enzymology's fascinating history This comprehensive book is of particular interest to enzymology students teachers and researchers Volume II presents selected cutting edge examples of techniques and approaches being pursued in biochemistry This up to date resource includes 11 chapters which illustrate important theoretical and practical aspects of enzyme mechanisms It also features selected examples in which today's most important techniques ideas and theories are used to elaborate on the intricate nature of enzyme action mechanisms This particular volume provides important information for both the novice and the seasoned investigator

Biophysical Labeling Methods in Molecular Biology Gertz I. Likhtenshtein, 1993-03-26 This 1993 volume covers all aspects of the field of physical labels the theoretical bases the experimental techniques and shows how to interpret the resulting data

A Study of Enzymes Stephen A. Kuby, 1990-11-16 This comprehensive monograph consists of two parts Volume I entitled Enzyme Catalysis Kinetics and Substrate Binding and Volume II entitled Mechanism of Enzyme Action Volume I focuses on several aspects of enzyme catalytic behavior their steady state and transient state kinetics and the thermodynamic properties of substrate binding Packed with figures tables schemes and photographs this volume contains

over 1 000 references including references regarding enzymology's fascinating history. This comprehensive book is of particular interest to enzymology students, teachers, and researchers. Volume II presents selected cutting edge examples of techniques and approaches being pursued in biochemistry. This up to date resource includes 11 chapters which illustrate important theoretical and practical aspects of enzyme mechanisms. It also features selected examples in which today's most important techniques, ideas, and theories are used to elaborate on the intricate nature of enzyme action mechanisms. This particular volume provides important information for both the novice and the seasoned investigator.

Ultraviolet Spectroscopy of Proteins Alexander P. Demchenko, 2013-11-11. The aim of this book is to give a comprehensive description of the basic methods used in the ultraviolet spectroscopy of proteins to discuss new trends and development of these methods and to analyze their different applications in the study of various aspects of protein structure and dynamics. Ultraviolet spectroscopy is one of the oldest and most popular methods in the field of biochemistry and molecular biophysics. At present it is difficult to imagine the biochemical laboratory without a recording spectrophotometer or spectrofluorimeter. There are several hundreds of publications directly devoted to protein ultraviolet spectroscopy and in a great number of studies UV spectroscopic methods are used for the structural analysis of different proteins. Meanwhile a unified description of the theoretical basis of the methods, experimental techniques, data analysis, and generalization of results obtained in solving the specific problems of protein structure are lacking. There are three reasons for which a monograph on ultraviolet spectroscopy is needed today. Firstly, there has been significant growth in facilities of experimental technique, its precision, and versatility associated with computer data analysts. This new technique is available to a wide circle of scientists engaged in the field of protein research. Most of them are not spectroscopists and thus there is a need for a conceivable and precise source of information on how to use this method and what kind of data it should provide.

United States-Japan Seminar on Host-Guest Chemistry George W. Gokel, Kenji Koga, 2012-12-06. *National Library of Medicine Current Catalog*. National Library of Medicine (U.S.), 1988.

Hydrogen Materials Science and Chemistry of Carbon Nanomaterials T. Nejat Veziroglu, Svetlana Yu. Zaginichenko, Dmitry V. Schur, Bogdan Baranowski, Anatoliy P. Shpak, Valeriy V. Skorokhod, Ayfer Kale, 2006-12-21. This book considers the various advanced hydrogen materials and technologies of their synthesis. It presents the consideration of the physics, chemistry, thermodynamics, and kinetics of processes of energy conversion which occur at hydrogen production, storage, transportation, and with its use. It also discusses the pioneering attempts to transform motor transport, airplanes, domestic techniques, illumination, and industrial manufacture of hydrogen fuel.

Inclusion Aspects of Membrane Chemistry T. Osa, J.L. Atwood, 2012-12-06. There is no doubt that the field of artificial membrane transport using synthetic ionophores has advanced remarkably in the past 15 years due primarily to the synthesis of new ionophores. Even though the theoretical framework substantially predated this activity, the merging of theory with transport experiment has often been sketchy. The purpose of this outline has been to examine key examples to illustrate the

underlying principles and to suggest how experimental variables dominate the results obtained To a very good approximation the assumption of a diffusion regime is often justified is easily confirmed experimentally and provides a clear framework for exploitation of the inherent selectivity of a given ionophore Thus for synthetic chemists who wish a quick and nasty experiment to examine the question of selectivity the recipe is clear a mixture containing all ions of interest in a standard experiment for each ligand of interest using a moderately stirred 100 200 rpm cell and analysis of the mixture produced on the OUT side of the cell at a fixed small extent of transport Together with duplicates and controls this modest set of experiments will place the results on an unambiguous footing from which clear conclusions about each ionophore s characteristics are readily obtained For those with more detailed interests in the transport process the demands are correspondingly higher

Energy And Information Transfer In Biological Systems: How Physics Could Enrich Biological Understanding - Proceedings Of The International Workshop Mae-wan Ho,2003-06-13 This volume contains papers based on the workshop Energy and Information Transfer in Biological Systems How Physics Could Enrich Biological Understanding held in Italy in 2002 The meeting was a forum aimed at evaluating the potential and outlooks of a modern physics approach to understanding and describing biological processes especially regarding the transition from the microscopic chemical scenario to the macroscopic functional configurations of living matter In this frame some leading researchers presented and discussed several basic topics such as the photon interaction with biological systems also from the viewpoint of photon information processes and of possible applications the influence of electromagnetic fields on the self organization of biosystems including the nonlinear mechanism for energy transfer and storage and the influence of the structure of water on the properties of biological matter

Complex Systems David G. Green,Terry Bossomaier,1993

Cyclodextrins in Pharmacy Karl-Heinz Frömming,J. Szejtli,2013-04-17 Nearly three thousand papers and patents are dedicated to the actual or potential uses of cyclodextrins in pharmacy and pharmaceutical formulations This is the first book written for pharmacists and pharmaceutical technologists which not only critically summarizes the enormous amount of literature available but which can be used as a handbook when looking for solutions to practical problems The fundamentals chemistry of cyclodextrins and their derivatives their physical and chemical properties are condensed to the most relevant items in Chapters 1 and 2 Chapter 3 deals with the adsorption metabolism and toxicological properties of cyclodextrins Chapter 4 explains the formulation structure composition and advantageous effects of the cyclodextrin inclusion complexes Chapter 5 describes the methods for preparation and characterization of drug cyclodextrin complexes Chapters 6 and 7 are dedicated to the pharmacokinetics biopharmaceutical and technological aspects of drug CD complexes Chapter 8 treats the application and effects of cyclodextrins in various drug formulations The Appendix comprises a collection of recipes for any type of drug formulation This book is aimed at those who use cyclodextrins in drug formulations to improve the properties of existing drug formulations or who want to prepare quite new formulations

Energy and Information Transfer in Biological Systems

Larissa S. Brizhik, Francesco Musumeci, Mae-Wan Ho, 2003 This volume contains papers based on the workshop OC Energy and Information Transfer in Biological Systems How Physics Could Enrich Biological Understanding OCO held in Italy in 2002 The meeting was a forum aimed at evaluating the potential and outlooks of a modern physics approach to understanding and describing biological processes especially regarding the transition from the microscopic chemical scenario to the macroscopic functional configurations of living matter In this frame some leading researchers presented and discussed several basic topics such as the photon interaction with biological systems also from the viewpoint of photon information processes and of possible applications the influence of electromagnetic fields on the self organization of biosystems including the nonlinear mechanism for energy transfer and storage and the influence of the structure of water on the properties of biological matter **Calixarenes: A Versatile Class of Macrocyclic Compounds** Jacques Vicens, Volker

Böhmer, 2012-12-06 Water Relationships in Foods Harry Levine, Louise Slade, 2013-11-21 This book was developed from the papers presented at a symposium on Water Relationships in Foods which was held from April 10-14 1989 at the 197th National Meeting of the American Chemical Society in Dallas Texas under the auspices of the Agricultural and Food Chemistry Division of ACS The editors of this book organized the symposium to bring together an esteemed group of internationally respected experts currently active in the field of water relationships in foods to discuss recent advances in the 1980 s and future trends for the 1990 s It was the hope of all these contributors that this ACS symposium would become a memorable keystone above the foundation underlying the field of water in foods This strong foundation has been constructed in large part from earlier technical conferences and books such as the four milestone International Symposia on the Properties of Water ISOPOW I-IV the recent IFT Basic Symposium on Water Activity and Penang meeting on Food Preservation by Moisture Control as well as the key fundamental contributions from the classic 1980 ACS Symposium Series 127 on Water in Polymers and from Felix Franks famous seven volume Comprehensive Treatise on Water plus five subsequent volumes of the ongoing Water Science Reviews The objective of the 1989 ACS symposium was to build on this foundation by emphasizing the most recent and major advances *Spectroscopic and Computational Studies of Supramolecular Systems* J.E. Davies, 2013-04-17 Physical techniques such as X-ray crystallography IR spectroscopy and solution phase NMR spectroscopy have played key roles in the development of supramolecular chemistry In recent years other spectroscopic techniques have been applied expanding the range of information obtainable The most widely used technique is solid state NMR spectroscopy but techniques such as neutron scattering and NQR spectroscopy can yield significant information Computational approaches are now becoming powerful complementary methods to experimental techniques and this book reviews the application of these methods to supramolecular systems The ten chapters provide up to date information on the applications of spectroscopic and computational techniques to a wide range of supramolecular systems Solid State NMR Studies of Host Guest Materials Infrared Studies of Zeolite Complexes NQR Studies of Inclusion

Compounds Neutron Scattering Studies of Zeolite Complexes Solid State NMR Studies of Catalytic Reactions on Molecular Sieves Recent Advances in Computational Studies of Zeolites Theoretical Studies of Cyclodextrins and their Inclusion Complexes Computer Modelling of the Structures of Host Guest Complexes Computational Studies of Clathrate Hydrates Ab initio Electronic Structure Calculations on Endohedral Complexes of the C₆₀ Cluster This timely book will prove to be of great value to supramolecular researchers who are familiar with the spectroscopic techniques but who wish to extend their knowledge of the computational methods and vice versa to supramolecular researchers working in allied areas whose work would benefit from applying spectroscopic and computational methods and finally to workers just entering the fascinating area of supramolecular chemistry

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