

Journal of Biomolecular Structure and Dynamics



Biomolecular Stereodynamics Volume Iii

Irwin Chaiken



Biomolecular Stereodynamics Volume Iii:

Biomolecular Stereodynamics Ramaswamy H. Sarma,1986 *Biomolecular Stereodynamics: Proceedings of the Fourth Conversation in the Discipline Biomolecular Stereodynamics held at the State University of New York at Albany, June 4-8, 1985* Ramaswamy H. Sarma,1981 **Dynamics of Proteins and Nucleic Acids** J. Andrew McCammon,Stephen C.

Harvey,1988-04-29 This book is a self contained introduction to the theory of atomic motion in proteins and nucleic acids An understanding of such motion is essential because it plays a crucially important role in biological activity The authors both of whom are well known for their work in this field describe in detail the major theoretical methods that are likely to be useful in the computer aided design of drugs enzymes and other molecules A variety of theoretical and experimental studies is described and these are critically analyzed to provide a comprehensive picture of dynamic aspects of biomolecular structure and function The book will be of interest to graduate students and research workers in structural biochemistry X ray diffraction and NMR theoretical chemistry liquids and polymers biophysics enzymology molecular biology pharmaceutical chemistry genetic engineering and biotechnology Current Catalog National Library of Medicine (U.S.),1993-04

National Library of Medicine Current Catalog National Library of Medicine (U.S.),1985 **Stereodynamics of Molecular Systems** Ramaswamy H. Sarma,2013-10-22 *Stereodynamics of Molecular Systems* covers the proceedings of a symposium held at the State University of New York at Albany on 23 24 April 1979 The book focuses on the stereodynamics of molecules and ions and nucleic acid structure The contributions tackle spectroscopy crystallography perturbations and electron transfer reactions The selection first offers information on nuclear magnetic resonance spectroscopy chemical shifts coupling constants and molecular geometry including chemical shifts bond coupling constants and constitutional features of nucleic acids The book then takes a look at nuclear magnetic resonance spectroscopy stereodynamics of small molecules nuclear magnetic resonance spectroscopy solution dynamics of polymer chains and single crystal crystallography The publication evaluates the steric effects on electron transfer reactions of sulfonamides effects of isotopic perturbation on NMR spectra and conformational mobility of the backbone of cyclic tripeptides The book also discusses accessible surface areas of nucleic acids and their relation to folding conformational transition and protein recognition Topics include polarity of exposed atoms surface of DNA double helices transfer RNA and calculation of static accessible surface area The selection is a dependable reference for readers interested in the stereodynamics of molecules and ions and nucleic acid structure **A**

Bibliography on Computational Molecular Biology and Genetics Sarah Barron,Matthew Witter,Gongxian Liu,1991 Provides a definitive bibliographic review of the literature related to DNA mapping and sequence analysis with a focus on computer and mathematical aspects of molecular biology and genetics Over 2200 entries arranged by author s name

Structure of Antigens Marc H. V. Van Regenmortel,1992-12-07 *Structure of Antigens* discusses a variety of topics dealing with the structural basis of antigenicity Topics include the analytical methods used to elucidate the structure of

antigens the structure of antibodies the principles underlying modern immunoassays and the measurement of antibody binding affinity and physicochemical principles and methodological aspects The book also considers major groups of antigens distinguished by their functional activity and biological role e g drugs autoantigens snake toxins allergens or by their association with particular biological systems e g antigens of microorganisms Structure of Antigens will provide a current useful reference for researchers and graduate students in all fields of biological science who need an overview of antigenic specificity VOLUME II Affinity Chromatography and Biological Recognition Irwin Chaiken, 2012-12-02 Affinity Chromatography and Biological Recognition contains manuscripts presented at the Fifth International Symposium on Affinity Chromatography and Biological Recognition convened in June 12 17 1983 at St John s College in Annapolis Maryland Organized into six parts encompassing 82 chapters the book begins by examining the growing synergism between affinity methods and the understanding and study of basic principles of biological recognition The book then focuses on the trends and progress in the design and application of affinity methods for isolation therapeutics diagnostics and biotechnology Significant chapters are devoted to the contributions of affinity methodology in such areas as cell membrane receptors quantitative properties of macromolecular interactions microscale analytical and preparative applications of high performance affinity chromatography antibodies as in vivo and in vitro diagnostic and therapeutic agents and drug targeting This volume will be a stimulus for broad and creative application of affinity concepts and methods in many fields of biomedical research and biotechnology *Nucleic Acids: The Vectors of Life* A. Pullman, Joshua Jortner, 2012-12-06 Proceedings of the Sixteenth Jerusalem Symposium on Quantum Chemistry and Biochemistry held in Jerusalem Israel May 2 5 1983

Embracing the Track of Expression: An Emotional Symphony within **Biomolecular Stereodynamics Volume Iii**

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