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Engineering News-record Springer Nature

This book was first published in 1991. It considers the concepts and theories relating to mostly aqueous systems of activity coefficients.

Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards National Academies Press

Biological membranes play a significant role in a range of biological processes such as ion-transport and signal transduction. Over the years much effort has been devoted towards developing an understanding of biomembrane structure. The study of this subject is now reaching an important stage. This is because at last the full three-dimensional structure of certain membrane proteins is beginning to be resolved. In the past three-dimensional structures of membrane proteins were difficult to obtain as only two dimensional crystals were available. In recent years satisfactory crystals have been obtained and X-ray diffraction techniques have been applied. This has led to the three dimensional structures of the photosynthetic reaction centres, porins and more recently the structure of cytochrome oxidase. Of course not all membrane proteins are readily crystallisable and some are not even available in sufficient quantities to obtain the necessary crystals or to carry out biophysical experiments. In some cases e.g. the voltage-gated potassium ion channel membrane proteins their structure has been proposed mainly on the basis of molecular biology methods. This has prompted the search for alternative approaches for characterising biomembrane structure. Molecular biological studies are providing a wealth of information on a number of different membrane proteins. Combining the information derived from such studies with molecular modelling is becoming extremely useful for relating structure to function. Development of other approaches include synthesis and structure- function analysis of peptides corresponding to functionally important domains of membrane proteins. This book presents a series of Chapters discussing how a combination of molecular biological, biophysical and theoretical (molecular modelling) techniques are helping us to obtain a much clearer picture of biomembrane structure. After an introductory Chapter on the Principles of membrane Protein Structure, the book is divided into two sections; one dealing with crystallographic approaches and the other non-crystallographic approaches such as NMR, AFM, SPR and FTIR spectroscopy. Chapters dealing with the recently solved crystal structure of cytochrome oxidase and bacteriorhodopsin are presented. The book contains contributions from leading membrane scientists describing their latest studies. It provides an up to date coverage of the developments in the field of biomembranes with particular emphasis on membrane proteins.

Structural Steel Framing Options for Mid- and High Rise Buildings IGI Global

This handbook is the first to comprehensively cover nucleic acids from fundamentals to recent advances and applications. It is divided into 10 sections where authors present not only basic knowledge but also recent research. Each section consists of extensive review chapters covering the chemistry, biology, and biophysics of nucleic acids as well as their applications in molecular medicine, biotechnology and nanotechnology. All sections within this book are: Physical Chemistry of Nucleic Acids (Section Editor: Prof. Roland Winter), Structural Chemistry of Nucleic Acids (Section Editor: Prof. Janez Plavec), Organic Chemistry of Nucleic Acids (Section Editor: Prof. Piet Herdewijin), Ligand Chemistry of Nucleic Acids (Section Editor: Prof. Marie-Paule Teulade-Fichou), Nucleic Acids and Gene Expression (Section Editor: Prof. Cynthia Burrows), Analytical Methods and Applications of Nucleic Acids (Section Editor: Prof. Chaoyong Yang), Nanotechnology and Nanomaterial Biology of Nucleic Acids (Section Editor: Prof. Zhen Xi), Nucleic Acids Therapeutics (Section Editor: Prof. Katherine Seley-Radtke), Biotechnology and Synthetic Biology of Nucleic Acids (Section Editor: Prof. Eriks Rozners), Functional Nucleic Acids (Section Editor: Prof. Keith R. Fox). The handbook is edited by outstanding leaders with contributions written by international renowned experts. It is a valuable resource not only for researchers but also graduate students working in areas related to nucleic acids who would like to learn more about their important role and potential applications.

Biomembrane Structures CRC Press

Masters Theses in the Pure and Applied Sciences was first conceived, published, and dis seminated by the Center for Information and Numerical Data Analysis and Synthesis, (CINDAS) *at Purdue University in 1957, starting its coverage of theses with the academic year 1955. Beginning with Volume 13, the printing and dissemination phases of the ac tivity was transferred to University Microfilms/Xerox of Ann Arbor, Michigan, with the thought that such an arrangement would be more beneficial to the academic and general scientific and technical community. After five years of this joint undertaking we had concluded that it was in the interest of all concerned if the printing and distribution of the volume were handled by an international publishing house to assure improved service and broader dissemination. Hence, starting with Volume 18, Masters Theses in the Pure and Applied Sciences has been disseminated on a worldwide basis by Plenum Publishing Corporation of New York, and in the same year the coverage was broadened to include Canadian universities. All back issues can also be ordered from Plenum. We have reported in Volume 19 (thesis year 1974) a total of 10,045 theses titles from 20 Canadian and 209 United States universities. We are sure that this broader base for theses titles reported will greatly enhance the value of this important annual reference work. The organization of Volume 19 is identical to that of past years. It consists of theses titles arranged by discipline and by university within each discipline.

The Structural Engineer IOS Press

In the United States, some populations suffer from far greater disparities in health than others. Those disparities are caused not only by fundamental differences in health status across segments of the population, but also because of inequities in factors that impact health status, so-called determinants of health. Only part of an individual's health status depends on his or her behavior and choice; community-wide problems like poverty, unemployment, poor education, inadequate housing, poor public transportation, interpersonal violence, and decaying neighborhoods also contribute to health inequities, as well as the historic and ongoing interplay of structures, policies, and norms that shape lives. When these factors are not optimal in a community, it does not mean they are intractable: such inequities can be mitigated by social policies that can shape health in powerful ways. Communities in Action: Pathways to Health Equity seeks to delineate the causes of and the solutions to health inequities in the United States. This report focuses on what communities can do to promote health equity, what actions are needed by the many and varied stakeholders that are part of communities or support them, as well as the root causes and structural barriers that need to be overcome.

Handbook of Chemical Biology of Nucleic Acids CRC Press

In the domain of education, the crucial connection between families and professionals faces obstacles that create a gap undermining student success. The conventional family engagement model falls short as the concept of "family" broadens to encompass various individuals influencing a child's learning path. Despite recognized significance backed by research and federal mandates, systemic barriers persist, disproportionately impacting culturally, linguistically, and economically diverse families. Furthermore, the absence of a unified resource that integrates disability, diversity, and technology exacerbates these issues, leaving educators unprepared to establish fair educational settings. Offering a groundbreaking solution, Millicent Musyoka's research book, titled Meaningful and Active Family Engagement: IEP, Transition, and Technology Integration in Special Education, disrupts the existing norm and redefines family engagement. Through this pioneering work, both scholars and educators gain a comprehensive manual for navigating the intricate terrain of inclusive education. Musyoka's expertise, spanning multilingualism, multicultural education, and special education, equips readers with strategies to bridge the divide between professionals and families. By highlighting legislative foundations and validated theories, the book offers a roadmap to transform engagement into purposeful collaboration. Meaningful and Active Family Engagement: IEP, Transition, and Technology Integration in Special Education covers diverse topics, including involving diverse families and those with disabilities, and integrating technology for effective communication. Through case studies, conflict resolution insights, and appreciation of diversity's benefits, Musyoka empowers readers to foster inclusive educational environments. The book's innovation lies in its comprehensive approach, addressing disability, diversity, and technology as interlinked components. Academics, educators, and service providers will discover this resource as transformative—a pivotal stride toward achieving equity, social justice, and enhanced student outcomes.

Yazoo Backwater Area CRC Press

Theses on any subject submitted by the academic libraries in the UK and Ireland.

Weight Bias Gale Cengage

Discrimination based on body shape and size remains commonplace in today's society. This important volume explores the nature, causes, and consequences of weight bias and presents a range of approaches to combat it. Leading psychologists, health professionals, attorneys, and advocates cover such critical topics as the barriers facing obese adults and children in health care, work, and school settings; how to conceptualize and measure weight-related stigmatization; theories on how stigma develops; the impact on self-esteem and health, quite apart from the physiological effects of obesity; and strategies for reducing prejudice and bringing about systemic change.

Constitution of Architectural Services Department Structural Engineers' Association Guilford Press

The availability of powerful computers along with highly effective computational techniques have allowed computer-aided design and engineering of structural dynamics systems to achieve a high level of capability and importance. This volume clearly reveals the great significance of these techniques and the essential role they will play in the future as further development occurs. This will be a significant and unique reference for students, research workers, practitioners, computer scientists and others for years to come.

Directory

Selecting a structural system for a building is a complex, multidisciplinary process. No design project is the same; however, there are certain criteria that are commonly true in the initial phase of evaluating different structural schemes. These criteria encompass all aspects of a full, functioning building, forcing the design team to be creative in their approach of satisfying all facets. An investigation was carried out for several structural steel framing options available to designers. The schemes describe how each successfully resist lateral loads explaining the advantages and disadvantages of each. Many of the structural design tools available for initial structural system evaluation are strength based. The demand for cheaper, more efficient and taller structures has paved the way for performance based design. A simple cantilever beam performance based analysis was utilized to evaluate three common structural framing schemes in order to gain a better understanding of the performance of each. Results give recommendations for efficient structural solutions for proposed buildings as a function of height.

Selected Water Resources Abstracts

Structure and Function of Apolipoproteins presents a comprehensive review of the primary and secondary structure of apolipoproteins. The book discusses the structure of the apolipoprotein gene family and genetic variation occurring at the protein level. Functional properties of apolipoproteins, including lipid binding, enzyme co-factor activity, antigenic properties, and receptor-ligand interactions are extensively described and analyzed in relation to their structural features. Physiological properties of apolipoproteins and their role in biology and medicine are also examined. Anyone who is interested in

apolipoproteins or is conducting research on atherosclerosis should consider this volume an essential reference.

Manual of Structural Design and Engineering Solutions

Grants and Awards for the Fiscal Year Ended ...

U.S. Department of Transportation Federal Motor Carrier Safety Administration Register

Public Works for Water and Power Development and Energy Research Appropriations for Fiscal Year 1976

Nuclear Science Abstracts

Communities in Action

Structure and Function of Apolipoproteins

Solutions Manual for Structural Steel Design

NBS Special Publication