

Polymers From The Inside Out An Introduction To Macromolecules Hardcover

An Introduction to Macromolecules Introduction to Macromolecular Science An Introduction to Macromolecules An Introduction to Macromolecules Direct Methods, Macromolecular Crystallography And Crystallographic Statistics - Proceedings Of Winter School In-Silico Approaches to Macromolecular Chemistry Macromolecules Polymers From the Inside Out Biology of Echinodermata The Mesoscopic Theory of Polymer Dynamics Introduction to Macromolecular Chemistry Algorithmic Bioprocesses Biochemistry and Molecular Biology. Block A. Units 1-2 Introduction to Macromolecules. Conformation Computational and Visualization Techniques for Structural Bioinformatics Using Chimera Static and Dynamic Behavior of Macromolecules in Small Channels Macromolecules, Volume 3 Chemistry The Anatomical Record The 5-year outlook on science and technology Gamete Research L. Mandelkern Petr Munk Leo Mandelkern L. Mandelkern H Schenk Minu Elizabeth Thomas F Bovey Alan E. Tonelli T. Yanagisawa Vladimir N. Pokrovskii Hans Batzer Anne Condon Open University Forbes J. Burkowski James Henry Aubert Hans-Georg Elias John Olmsted Charles Russell Bardeen Committee on Science, Engineering, and Public Policy (U.S.)

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the reception of the original volume by students pedagogues and reviewers has been most gratifying it appears to have both satisfied a need and served a useful

educational purpose hence some ten years later it has been deemed advisable to bring it up to date if only in a slightly expanded form the purpose for writing this book and its level remain the same many new polymers have been synthesized in the last decade that have found meaningful and novel uses examples of these applications are included in this new edition major advances have also been made in biophysics and in molecular biology as well as in our understanding of natural processes on a molecular level foremost among these has been the development of recombinant dna technology with it has come the potential for large scale synthesis of hormones and proteins these new developments have also been incorporated into the present volume it is my hope that this new edition will still have a widespread appeal to students in all of the natural sciences whatever their major interest it should also be of use and interest to those starting industrial or academic careers who have not had an extensive background in macromolecular science

an introduction to macromolecular chemistry covering the structure of macromolecules their properties their applications how they are made and methods used for studying them includes discussion of synthetic materials as well as important biological entities physical and chemical aspects are addressed with a minimum of mathematics

the purpose of this volume is to provide beginning students in the natural sciences with a very elementary introduction to the structure and properties of macromolecular substances most students either those who are science majors or those in a liberal art program do not usually have the opportunity to learn about this important class of molecules until they take advanced courses at a senior or graduate level there is thus a serious gap in our educational processes which has become acute with the widespread recognition of the important role played by macromolecules in biological systems their extensive use in a myriad of articles of commerce and their intrinsic scientific interest we have attempted to rectify this deficiency by presenting a detailed but nonmathematical description of all classes of macromolecules macromolecules are a unique class of substances in that they are molecules of extremely high molecular weight when certain common structural features are recognized among the different kinds of macromolecules they can be treated and analyzed from a unified point of view with this approach we can discuss in one volume macromolecules of biological interest as well as synthetic materials such as rubbers glasses coatings and fibers

vasopressin is a hormone which has an increasingly important profile not only does it play a physiologically significant role in renal water regulation but it also has other renal actions and plays a role in overall cardiovascular control even more interesting is the recent growing interest in its potential effects on the brain notably its influence on specific behaviours this monograph about the polypeptide vasopressin covers all aspects relating to the production control of release and

actions of this molecule within the body including its roles as a hormone and as a central neurotransmitter a consideration of the evolution of the molecule across the species and a brief historical perspective are also included clinical conditions associated with hypo and hyper production states are considered together with aspects of treatment in addition to other clinical correlates a

computational approaches offer researchers unique insights into the structure characteristics and properties of macromolecules however with applications across a broad range of areas various methods have been developed for exploring macromolecules in in silico therefore it can be difficult for researchers to select the most appropriate method for their specific needs covering both biopolymers and synthetic polymers in silico approaches to macromolecular chemistry familiarizes readers with the theoretical tools and software appropriate for such studies in addition to providing essential background knowledge on both computational tools and macromolecules the book presents in depth studies of in silico macromolecule chemistry discusses and compares these with experimental studies and highlights the future potential for such approaches written by specialists in their respective fields this book helps students researchers and industry professionals gain a clear overview of the field and furnishes them with the knowledge needed to understand and select the most appropriate tools for conducting and analyzing computational studies highlights in silico studies of both bio and synthetic macromolecules in one book supports both learners and experts though a combination of detailed guidance and perspectives on the future potential for in silico approaches to macromolecules familiarizes readers with theoretical tools and software helping them select the best approach for their specific needs

macromolecules is an introductory book about macromolecules specifically about the fundamental aspects of macromolecules such as their nature the ways they are formed and their behavior this book also focuses on the basics of macromolecules which includes history composition and properties the topics covered in this book include polymerization kinetics chemical reactions and degradation of macromolecules this book also discusses biological molecules including naturally occurring materials synthetic macromolecules and model compounds students majoring in chemistry or other related fields such as materials engineering will find this book very useful

an introduction to polymers and how they dominate our world polymer science is concerned with the structure synthesis physical properties and utility of polymers polymers are macromolecular building blocks used to construct natural and man made materials polymers from the inside out an introduction to macromolecules provides an all encompassing introduction to polymers and how they affect the world offering a clear explanation of the unique properties exhibited by polymers this book explores the detailed microstructures of polymers and their internal

responses to stress and the environment polymers from the inside out appeals to a wide range of disciplines including polymer organic materials and physical chemistry as well as textile science and engineering chapters include physical properties unique to polymeric materials step growth and chain growth polymerizations microstructures of polymers conformational characteristics of polymers developed with the rotational isomeric states model solution and bulk properties of polymers biopolymers discussion questions appropriate for first and second semester polymer students at the end of every chapter polymers from the inside out is designed to facilitate either a one semester or two semester course on polymers and is an essential resource for the practicing scientist

the proceedings of the seventh international echinoderm conference held at atami japan september 1990 in addition to sections covering ecology evolution reproduction morphology molecular biology developmental biology physiology behavior and paleontology there are four plenary lectures a

the theory presented in this book explains in a consistent manner all dynamics effects observed in very concentrated solutions and melts of linear polymers from a macromolecular point of view the presentation is compact and self contained

a fundamental understanding of algorithmic bioprocesses is key to learning how information processing occurs in nature at the cell level the field is concerned with the interactions between computer science on the one hand and biology chemistry and dna oriented nanoscience on the other in particular this book offers a comprehensive overview of research into algorithmic self assembly rna folding the algorithmic foundations for biochemical reactions and the algorithmic nature of developmental processes the editors of the book invited 36 chapters written by the leading researchers in this area and their contributions include detailed tutorials on the main topics surveys of the state of the art in research experimental results and discussions of specific research goals the main subjects addressed are sequence discovery generation and analysis nanoconstructions and self assembly membrane computing formal models and analysis process calculi and automata biochemical reactions and other topics from natural computing including molecular evolution regulation of gene expression light based computing cellular automata realistic modelling of biological systems and evolutionary computing this subject is inherently interdisciplinary and this book will be of value to researchers in computer science and biology who study the impact of the exciting mutual interaction between our understanding of bioprocesses and our understanding of computation

a step by step guide to describing biomolecular structure computational and visualization techniques for structural bioinformatics using chimera shows how to perform computations with python scripts in the chimera environment it focuses on the three core areas needed to study structural bioinformatics biochemistry

mathematics and computation und

providing a broad survey of the entire field macromolecules integrates representations of chemistry physics and technology as well as including precise descriptions of basic phenomena and balanced treatments of facts and theory

textbook outlining concepts of molecular science

issues for 1906 include the proceedings and abstracts of papers of the american association of anatomists formerly the association of american anatomists 1916 60 the proceedings and abstracts of papers of the american society of zoologists

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