

Polymers From The Inside Out An Introduction To Macromolecules Hardcover

An Introduction to MacromoleculesIntroduction to Macromolecular ScienceAn Introduction to MacromoleculesAn Introduction to MacromoleculesMacromoleculesPolymers From the Inside OutIntroduction to Macromolecular ChemistryBiochemistry and Molecular Biology. Block A. Units 1-2 Introduction to Macromolecules. ConformationStatic and Dynamic Behavior of Macromolecules in Small ChannelsMacromolecules, Volume 3The 5-year outlook on science and technologyGamete ResearchThe Anatomical RecordIntroduction of Plasmid DNA Into the Kinetoplastid Protozoan, Crithidia Fasciculata, and the Structure, Organization, and Transcription of the Gene Encoding the Bifunctional Dihydrofolate Reductase-thymidylate Synthase from *C. Fasciculata*Introduction to Macromolecular Binding EquilibriaInternational Symposium on MacromoleculesCell MotilitySubject Guide to Books in PrintThe Design of Drugs to Macromolecular TargetsIntroduction to Macromolecular Crystallography L. Mandelkern Petr Munk Leo Mandelkern L. Mandelkern F Bovey Alan E. Tonelli Hans Batzer Open University James Henry Aubert Hans-Georg Elias Committee on Science, Engineering, and Public Policy (U.S.) Charles Russell Bardeen Dallas Evan Hughes Charles P. Woodbury J. -L. Millan C. R. Bedell Alexander McPherson

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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 macro molecules 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.

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.

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.

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.

Macromolecules in the body form noncovalent associations such as DNA/protein or protein/protein complexes that control and regulate numerous cellular functions. Understanding how changes in the concentration and conformation of these macromolecules can trigger physiological responses is essential for researchers developing drug therapies to treat.

Explores the design of new drugs in light of three-dimensional images of biological molecules on the atomic level which are now possible. The eight chapters are independent but form a progression from the role of macromolecules in drug action through the physicochemical principles and computational techniques of designing small chemicals to experimental studies illustrating the successes and increased knowledge and an overview of how molecular tailoring complements other approaches to selecting chemicals as medicine. Annotation copyright by Book News Inc. Portland, OR.

A comprehensive and approachable introduction to crystallography, now updated in a valuable new edition. The second edition of this well-received book continues to offer the most concise, authoritative and easy to follow introduction to the field of crystallography dedicated to providing a complete basic presentation of the subject that does not assume a background in physics or math. The book's content flows logically from basic principles to methods such as those for solving phase problems, interpretation of Patterson maps and the difference Fourier method, the fundamental theory of diffraction and the properties of crystals and applications in determining macromolecular structure. This new edition includes a vast amount of carefully updated materials as well as two completely new chapters on recording and compiling X-ray data and growing crystals of proteins and other macromolecules. Richly illustrated throughout to clarify difficult concepts, this book takes a non-technical approach to crystallography that is ideal for professionals and graduate students in structural biology, biophysics, biochemistry and molecular biology who are studying the subject for the first time.

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