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Organic polymers are macromolecules in which the primary backbone of the molecular chain is composed, at least partially, of carbon atoms. Polymer backbones consisting of carbon along with other atoms – such as oxygen, nitrogen, and others – are, interestingly, more common than polymers with only carbon comprising the backbone.

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Introduction to Polymer Chemistry

Frank W. Harris Wright State
University, Dayton, OH 45435

Polymers are extremely large molecules that are essential to our very existence. They are a main constituent of our food (starch, protein, etc.), our clothes (polyester, nylons, etc.), our houses (wood cellulose, alkyd paints, etc.), and our bodies (poly(nucleic acids), proteins, etc.). Hence, it is ...

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Polymers are long chain, giant organic molecules are assembled from many smaller molecules called monomers. Polymers consist of many repeating monomer units in long chains, sometimes with branching or cross-linking between the chains. A polymer is analogous to a necklace made from many small beads (monomers).

26.1 Introduction to Synthetic Polymers - Chemistry LibreTexts
Define key terms used in polymer chemistry. Describe a polymer's structure in terms of –mer type ordering, tacticity, and backbone chain configuration. Explain how polymer structure determines material properties, such as flexibility or transparency. Explain how crosslinking produces the

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28. Polymers: Structure & Composition | Organic Materials ...

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This book deals with the organic chemistry of polymers which find

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technological use as adhesives, fibres, paints, plastics and rubbers. For the most part, only polymers which are of commercial significance are considered and the primary aim of the book is to relate theoretical aspects to industrial practice. The book is mainly intended for use by students in technical institutions and universities who are specializing in polymer science and by graduates who require an introduction to this field. Several excellent books have recently appeared dealing with the physical chemistry of polymers but the organic chemistry of polymers has not received so much attention. In recognition of this situation and because the two aspects of polymer chemistry are often taught separately, this book deals specifically with organic chemistry and topics of

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physical chemistry have been omitted. Also, in this way the book has been kept to a reasonable size. This is not to say that integration of the two areas of polymer science is undesirable; on the contrary, it is of the utmost importance that the inter-relationship should be appreciated. I wish to record my thanks to my colleagues with whom I have had many helpful discussions, particularly Mrs S. L. Radchenko. I also thank Miss E. Friesen for obtaining many books and articles on my behalf and Mr H. Harms for encouragement and assistance. I am also grateful to Mrs M. Stevens who skilfully prepared the manuscript. Department of Chemical and Metallurgical Technology, Ryerson Polytechnical Institute, K. J. S.

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Page 15/26

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provides undergraduate students with a much-needed, well-rounded presentation of the principles and applications of natural, synthetic, inorganic, and organic polymers. With an emphasis on the environment and green chemistry and materials, this fourth edition continues to provide detailed coverage of natural and synthetic giant molecules, inorganic and organic polymers, elastomers, adhesives, coatings, fibers, plastics, blends, caulks, composites, and ceramics. Building on undergraduate work in foundational courses, the text fulfills the American Chemical Society Committee on Professional Training (ACS CPT) in-depth course requirement

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Most of the available texts for polymer chemistry are written for graduate students, foregoing some of the concepts that are the basis for understanding polymers. Building on the core elements of organic and physical chemistry, Introduction to Polymer Chemistry provides an articulate, well-rounded presentation of the principles and applications for natural, synthetic, inorganic, and organic polymers. The book organizes its organic-intensive chapters in the front, allowing greater time for students and teachers to become familiar with the topic before embarking on physical aspects. Relating to all types of polymers, the chapters examine synthesis and polymerization reactions, reactivities, techniques for characterization and

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analysis, energy absorption and thermal conductivity, physical and optical properties, and more. Each chapter contains up-to-date problems, learning summaries, practical glossaries, and recommended Web sites for further study. The author uses compelling examples from real-world applications that underscore the impact of polymers on society and emphasize the increasing role of polymers for resolving worldwide health challenges such as clean and abundant water, food preservation, clean air, and clean energy. Placing less emphasis on physical topics, Introduction to Polymer Chemistry contains sufficient coverage of kinetics and thermodynamics to qualify as an advanced course for the American Chemical Society (ACS)

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Committee on Professional Training approval process. It also fulfills the advanced course requirements of the ACS for the chemistry major, offering a solutions manual for qualifying course adoptions.

This high school textbook introduces polymer science basics, properties, and uses. It starts with a broad overview of synthetic and natural polymers and then covers synthesis and preparation, processing methods, and demonstrations and experiments. The history of polymers is discussed alongside the s

Organic and Physical Chemistry of Polymers provides a thorough introduction to the fundamentals of polymers, including their structure and synthesis as well as their

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chemical and physical properties. This accessible guide illuminates the increasingly important role of polymers in modern chemistry, beginning with the essentials, then covering thermodynamics, conformation, morphology, and measurements of molar masses; polymerization mechanisms, reaction of polymers, synthesis of block and graft polymers, and complex topologies; and the mechanical properties, rheology, polymer processing, and fabrication of fibers and films.

An Introduction to Polymer Chemistry focuses on the fundamental chemistry of synthetic organic polymers of high molecular weight. This book explains the basic principles of polymer chemistry, from

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significant methods of molecular weight determination to the simpler mechanisms of polymerization. The osmotic, light scattering, and viscosity methods of molecular weight determination are fully discussed together with the kinetics of selected examples of condensation and free-radical addition polymerization. The main features of ionic polymerization are also elaborated. This text, however, does not cover the thermodynamics of polymer solutions or the methods of structure determination. This publication is a good reference to university and technical college students researching on polymer chemistry.

With such a wide diversity of properties and applications, is it any

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wonder that industry and academia have such a fascination with polymers? A solid introduction to such an enormous and important field is critical to the modern polymer scientist-to-be, but most of the available books do not stress practical problem solving or include recent advances. Serving as the polymer book for the new millennium, *Introduction to Polymer Science and Chemistry: A Problem Solving Approach* unites the fundamentals of polymer science and polymer chemistry in a seamless presentation. Emphasizing polymerization kinetics, the author uses a unique question-and-answer approach when developing theory or introducing new concepts. The first four chapters introduce polymer science, focusing on physical and molecular properties,

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Introduction to the behavior, and molecular weights. The remainder of the book explores polymer chemistry, devoting individual, self-contained chapters to the main types of polymerization reactions: condensation; free radical; ionic; coordination; and ring-opening. It introduces recent advances such as supramolecular polymerization, hyperbranching, photoemulsion polymerization, the grafting-from polymerization process, polymer brushes, living/controlled radical polymerization, and immobilized metallocene catalysts. With numerical problems accompanying the discussion at every step along with numerous end-of-chapter exercises, Introduction to Chemical Polymer Science: A Problem Solving Approach is an ideal introductory text and self-study vehicle for mastering the

Read Online Organic Polymer Chemistry An Introduction To Principles and Methodologies of Modern Polymer Science and Chemistry.

Polymers as Aids in Organic Chemistry covers the broad classifications and application of polymers in organic chemistry. This book is organized into 15 chapters that focus on the transformation of polymers and their role in other reagents that must be easily separated from their final product. After a brief introduction to polymer chemistry, the book presents a tabulation of the various types of polymers that have been used and the methods for their characterization. It then discusses the use of polymers as supports in peptide, oligonucleotide, and oligosaccharide chemistry; in peptide

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sequencing; in monofunctionalized difunctional compounds preparation, as aids in asymmetric syntheses; and as trapping agents in the determination of reaction intermediates. The subsequent chapters describe the use of polymers as catalysts, with particular emphasis on transition metals immobilized in the polymer matrix and used as catalysts. The concluding chapters examine polymer-immobilized compounds, enzymes, and whole cells that have been used to carry out a large number of reaction, most of which impinge on the area of organic chemistry. Polymer scientists and researchers and organic chemists will find this book invaluable.

Focuses on polymer chemistry. This text is suitable for students who have

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studied in an Indian University for a
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