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This book provides comprehensive, up-to-date, and accessible coverage of the relationship between fundamental chemistry and the uses of polymers. With help from new co-author James Mark, the book presents a complete overview of the synthetic, kinetic, structural, and applied aspects of modern polymer chemistry as well as coverage of industrial and medical applications. For chemists and chemical engineers involved in polymer chemistry.

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This text follows a broad sequence of preparation, characterization, physical and mechanical properties and structure-property relations. *Polymers: Chemistry and Physics of Modern Materials, Second Edition* covers several methods of polymerization, properties, and advanced applications such as liquid crystals and polymers used in the electronics industry. Topics also include Step-Growth, Free Radical Addition, and Ionic Polymerization; Copolymerization; Polymer Stereochemistry and Characterization; Structure-Property Relationship; Polymer Liquid Crystals; and Polymers for the Electronics Industry.

This introductory text is intended as the basis for a two or three semester course in synthetic macromolecules. It can also serve as a self-instruction guide for engineers and scientists without formal training in the subject who find themselves working with polymers. For this reason, the material covered begins with basic concepts and proceeds to current practice, where appropriate. Serves as both a textbook and an introduction for scientists in the field. Problems accompany each chapter.

Exploring the chemistry of synthesis, mechanisms of polymerization, reaction engineering of step-growth and chain-growth polymerization, polymer characterization, thermodynamics and structural, mechanical, thermal and transport behavior of polymers as melts, solutions and solids, *Fundamentals of Polymer Engineering, Third Edition* covers essential concepts and breakthroughs in reactor design and polymer production and processing. It contains modern theories and real-world examples for a clear understanding of polymer function and development. This fully updated edition addresses new materials, applications, processing techniques, and interpretations of data in the field of

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polymer science. It discusses the conversion of biomass and coal to plastics and fuels, the use of porous polymers and membranes for water purification, and the use of polymeric membranes in fuel cells. Recent developments are brought to light in detail, and there are new sections on the improvement of barrier properties of polymers, constitutive equations for polymer melts, additive manufacturing and polymer recycling. This textbook is aimed at senior undergraduate students and first year graduate students in polymer engineering and science courses, as well as professional engineers, scientists, and chemists. Examples and problems are included at the end of each chapter for concept reinforcement.

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

Continuing the tradition of its previous editions, the third edition of Introduction to Polymer Chemistry provides a 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 third edition offers detailed coverage of natural and synthetic giant molecules, inorganic and organic polymers, biomacromolecules, elastomers, adhesives, coatings, fibers, plastics, blends, caulks, composites, and ceramics. Using simple fundamentals, the book demonstrates how the basic principles of one polymer group can be applied to all of the other groups. It covers reactivities, synthesis and polymerization reactions, techniques for characterization and analysis, energy absorption and thermal conductivity, physical and optical properties, and practical applications. This edition addresses environmental concerns and green polymeric materials, including biodegradable polymers and microorganisms for synthesizing



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materials. Case studies woven within the text illustrate various developments and the societal and scientific contexts in which these changes occurred. Now including new material on environmental science, Introduction to Polymer Chemistry, Third Edition remains the premier book for understanding the behavior of polymers. Building on undergraduate work in foundational courses, the text fulfills the American Chemical Society Committee on Professional Training (ACS CPT) in-depth course requirement.

Introduction to Polymers, Second Edition discusses the synthesis, characterization, structure, and mechanical properties of polymers in a single text, giving approximately equal emphasis to each of these major topics. It has thus been possible to show the interrelationship of the different aspects of the subject in a coherent framework. The book has been written to be self-contained, with most equations fully derived and critically discussed. It is supported by a large number of diagrams and micrographs and is fully referenced for more advanced reading. Problems have been supplied at the end of each chapter so that students can test their understanding and practice the manipulation of data.

Updated to reflect a growing focus on green chemistry in the scientific community and in compliance with the American Chemical Society's Committee on Professional Training guidelines, Carraher's Polymer Chemistry, Eighth Edition integrates the core areas that contribute to the growth of polymer science. It supplies the basic understanding of polymers essential to the training of science, biomedical, and engineering students. New in the Eighth Edition: Updating of analytical, physical, and special characterization techniques Increased emphasis on carbon nanotubes, tapes and glues, butyl rubber, polystyrene, polypropylene, polyethylene, poly(ethylene glycols), shear-thickening fluids, photo-chemistry and photophysics, dental materials, and aramids New sections on copolymers, including

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fluoroelastomers, nitrile rubbers, acrylonitrile-butadiene-styrene terpolymers, and EPDM rubber New units on spliceosomes, asphalt, and fly ash and aluminosilicates Larger focus on the molecular behavior of materials, including nano-scale behavior, nanotechnology, and nanomaterials Continuing to provide a user-friendly approach to the world of polymeric materials, the book allows students to integrate their chemical knowledge and establish a connection between fundamental and applied chemical information. It contains all of the elements of an introductory text with synthesis, property, application, and characterization. Special sections in each chapter contain definitions, learning objectives, questions, and additional reading, with case studies woven into the text fabric. Symbols, trade names, websites, and other useful ancillaries appear in the appendices to supplement the text.

As the first polymer book to receive the CHOICE Outstanding Academic Title distinction (2007), *Introduction to Polymer Chemistry* provided 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 second edition continues that tradition, offering detailed coverage of natural and synthetic giant molecules, inorganic and organic polymers, elastomers, adhesives, coatings, fibers, plastics, blends, caulks, composites, and ceramics. Using simple fundamentals, the author shows how the basic principles of one polymer group can be applied to all of the other groups. He covers synthesis and polymerization reactions, reactivities, techniques for characterization and analysis, energy absorption and thermal conductivity, physical and optical properties, and practical applications. This edition also addresses environmental concerns and green polymeric materials, including biodegradable polymers and microorganisms for synthesizing materials. Brief case studies are woven within the text as historical accounts to illustrate various

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developments and the societal and scientific contexts in which these changes occurred. Introduction to Polymer Chemistry, Second Edition remains the premier text for understanding the behavior of polymers while offering new material on environmental science. Building on undergraduate work in foundational courses, the text fulfills the American Chemical Society Committee on Professional Training (ACS CPT) in-depth course requirement. It also provides a test bank with upon qualifying course adoption.

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