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With such a wide diversity of properties and applications, is it any 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, solution 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 principles and methodologies of modern polymer science and chemistry.

'An excellent textbook for an advanced undergraduate or introductory graduate course on polymer chemistry. ...The book is easy to read and understand. The emphasis on commercially important materials makes it a definite choice for a textbook.' -Microchemical Journal 'This exellent, well-written book, suitable for advanced undergraduates and graduate level classes in polymer syntheses, would also be useful as a general resource book....thoroughly referenced, and contain[s] excellent problem sets.' -Choice This outstanding text combines comprehensive discussions of reaction mechanisms of polymer chemistry with detailed descriptions of practical industrial applications. Intended for graduate students

and professionals, this text examines topics at the forefront of today's research-including high performance materials, polymeric reagents and catalysts, and ultraviolet light curing of polymeric coatings. Each chapter contains helpful review questions reinforcing key points. The book also features useful appendixes describing two highly applicable computer programs.

Introduction to Polymer Chemistry 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

"Principles of Polymer Science introduces several basic and advanced aspects of polymers for the undergraduate and graduate students in chemistry, chemical engineering and materials science. The second and thoroughly revised edition includes the technical aspects of synthesis, characterization, behaviour and technology in a straightforward and lucid manner. Separate chapters on natural, inorganic and specialty polymers would attract readers from interdisciplinary courses."--BOOK JACKET.

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 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) 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

Handbook of Polymers, Second Edition, presents normalized, up-to-date polymer data in a consistent and easily referenceable layout. This new edition represents an update of the available data, including new values for many commercially available products, verification of existing data, and removal of older

data where it is no longer useful. The book includes data on all major polymeric materials used by the plastics industry and all branches of the chemical industry, as well as specialty polymers used in the electronics, pharmaceutical, medical, and space fields. The entire scope of the data is divided into sections to make data comparison and search easy, including synthesis, physical, mechanical, and rheological properties, chemical resistance, toxicity and environmental impact, and more. The data enables engineers and materials scientists to solve practical problems, be that in applications, research and development, or legislation. The most current grades of materials have been selected to provide readers with information that is characteristic of currently available products. Includes practical data on the most widely used polymers for engineers and materials scientists in design, manufacture, and applications research Presents data on polymer synthesis, properties, chemical resistance, processing, and their related environmental impacts Provides a comprehensive update to the data, including new information and the verification of existing datasets

This book deals with the organic chemistry of polymers which find 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 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 b~ 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.