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Fried is an instructor for the short course on Polymer Science and Technolo- gy at the National Meetings of the American Chemical Society and has been a course instructor on extrusion for the Plastics Institute of America. He is the author of more than one hundred and fifty publications, including many book chapters and monographs.

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Polymer Science and Technology, 3rd edition, 2014, Prentice Hall.

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The Definitive Guide to Polymer Principles, Properties, Synthesis, Applications, and Simulations Now fully revised, Polymer Science and Technology, Third Edition, systematically reviews the field's current state and emerging advances. Leading polymer specialist Joel R. Fried offers modern coverage of both processing principles and applications in multiple industries, including medicine, biotechnology, chemicals, and electronics.

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Joel R. Fried is Professor of Chemical Engineering and Past Director of the Polymer Research Center and Head of the Department of the Chemical Engineering at the University of Cincinnati.

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The Definitive Guide to Polymer Principles, Properties, Synthesis, Applications, and Simulations Now fully revised, Polymer Science and Technology, Third Edition, systematically reviews the field's current state and emerging advances. Leading polymer specialist Joel R. Fried offers modern coverage of both processing principles and applications in multiple industries, including medicine, biotechnology, chemicals, and electronics. This edition's new and expanded coverage ranges from advanced synthesis to the latest drug delivery applications. New topics include controlled radical polymerization, click chemistry, green chemistry, block copolymers, nanofillers, electrospinning, and more. A brand-new chapter offers extensive guidance for predicting polymer properties, including additional coverage of group correlations, and new discussions of the use of topological indices and neural networks. This is also the first introductory polymer text to fully explain computational polymer science, including molecular dynamics and Monte Carlo methods. Simulation concepts are supported with many application examples, ranging from prediction of PVT values to permeability and free volume. Fried thoroughly covers synthetic polymer chemistry; polymer properties in solution and in melt, rubber, and solid states; and all important categories of plastics. This revised edition also adds many new calculations, end-of-chapter problems, and references. In-depth coverage includes Polymer synthesis: step- and chain-growth; bulk, solution, suspension, emulsion, solid-state, and plasma; ionic liquids, and macromers; and genetic engineering Amorphous and crystalline states, transitions, mechanical properties, and solid-state characterization Polymers and the environment: degradation, stability, and more Additives, blends, block copolymers, and composites—including interpenetrating networks, nanocomposites, buckyballs, carbon nanotubes, graphene, and POSS Biopolymers, natural polymers, fibers, thermoplastics, elastomers, and thermosets Engineering and specialty polymers, from polycarbonates to ionic polymers and high-performance fibers Polymer rheology, processing, and modeling Correlations and simulations: group contribution, topological indices, artificial neural networks, molecular dynamics, and Monte Carlo simulations

Paul John Flory: A Life of Science and Friends is the first full-length treatment of the life and work of Paul John Flory, recipient of the Nobel Prize in chemistry in 1974. It presents a chronological progression of his scientific, professional, and personal achievements as recounted and written by his former students and colleagues. This book covers the span of Flory's life, including a family history and reflections on the marks he left on the lives of various individuals within the scientific community. He played a major role in the consolidation of the macromolecular paradigm in chemistry, physics, and materials science. His influence permeates virtually every aspect of polymer science. The book includes an extensive collection of personal remembrances telling the circumstances under which colleagues worked with Flory, discussing their joint work, and assessing Flory's place in polymer science, chemistry, and world science. The contributors memorialize Flory for more than his scientific and technical contributions. Several chapters are written by living friends who reflect upon his impact on their work and careers. He also played a role in human rights within the scientific community, making efforts to liberate scientists who lived and worked behind the Iron Curtain, particularly in the Soviet Union. Paul John Flory: A Life of Science and Friends illustrates an example of an individual of scientific and personal excellence. His living friends and colleagues believe his story must be told. In telling it and making it available for future generations, his closest friends and colleagues ensure his continued inspiration to people in and outside laboratories worldwide.

Your search for the perfect polymers textbook ends here - with Polymer Science and Technology. By incorporating an innovative approach and consolidating in one volume the fundamentals currently covered piecemeal in several books, this efficient text simplifies the learning of polymer science.

The book is divided into three main sections: polymer fundamentals; polymer formation and conversion into useful articles; and polymer properties and applications. Polymer Science and Technology emphasizes the basic, qualitative understanding of the concepts rather than rote memorization or detailed mathematical analysis. Since the book focuses on the ultimate property of the finished product, it minimizes laborious descriptions of experimental procedures used for the characterization of polymers. Instead, the author highlights how the various stages involved in the production of the finished product influence its properties. Well-organized, clear-cut, and user-friendly, Polymer Science and Technology is an outstanding textbook for teaching junior and senior level undergraduates and first year graduate students in an introductory course covering the challenging subject of polymers.

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

Polymers are used in everything from nylon stockings to commercial aircraft to artificial heart valves, and they have a key role in addressing international competitiveness and other national issues. Polymer Science and Engineering explores the universe of polymers, describing their properties and wide-ranging potential, and presents the state of the science, with a hard look at downward trends in research support. Leading experts offer findings, recommendations, and research directions. Lively vignettes provide snapshots of polymers in everyday applications. The volume includes an overview of the use of polymers in such fields as medicine and biotechnology, information and communication, housing and construction, energy and transportation, national defense, and environmental protection. The committee looks at the various classes of polymers--plastics, fibers, composites, and other materials, as well as polymers used as membranes and coatings--and how their composition and specific methods of processing result in unparalleled usefulness. The reader can also learn the science behind the technology, including efforts to model polymer synthesis after nature's methods, and breakthroughs in characterizing polymer properties needed for twenty-first-century applications. This informative volume will be important to chemists, engineers, materials scientists, researchers, industrialists, and policymakers interested in the role of polymers, as well as to science and engineering educators and students.

This book skillfully blends and integrates polymer science, plastic technology and rubber technology. The fundamentals of polymerization, polymer characteristics, rheology and morphology, as well as the composition, technology, testing and evaluation of various plastics, rubbers, fibres, adhesives, coatings and composites are comprehensively presented. New to this Edition Extensive discussion of dendritic polymers, dendrimers and useful inorganic polymers Lucid description of the use of power polymers in developing solar photovoltaic devices In-depth coverage of the applications of nanotechnology to polymers Detailed explanation of the use of polymers in waste disposal and recycling The book is highly suitable for all entrepreneurs and professionals engaged in production of as well as research and development in polymers. It will also be found immensely useful by advanced level students of physics, chemistry, materials science, and electronics specializing in polymers, as well as students of electronics, chemical and metallurgical engineering having courses in polymer technology/materials science and technology.

Comprehensive and practical guide to the selection and design of a wide range of chemical process equipment. Emphasis is placed on real-world process design and performance of equipment. Provides examples of successful applications, with numerous drawings, graphs, and tables to show the functioning and performance of the equipment. Equipment rating forms and manufacturers' questionnaires are collected to illustrate the data essential to process design. Includes a chapter on equipment cost and addresses economic concerns. * Practical guide to the selection and design of a wide range of chemical process equipment. Examples of successful, real-world applications are provided. * Fully revised and updated with valuable shortcut methods, rules of thumb, and equipment rating forms and manufacturers' questionnaires have been collected to demonstrate the design process. Many line drawings, graphs, and tables illustrate performance data. * Chapter 19 has been expanded to cover new information on membrane separation. Approximately 100 worked examples are included. End of chapter references also are provided.

Materials Science of Membranes for Gas and Vapor Separation is a one-stop reference for the latest advances in membrane-based separation and technology. Put together by an international team of contributors and academia, the book focuses on the advances in both theoretical and experimental materials science and engineering, as well as progress in membrane technology. Special attention is given to comparing polymer and inorganic/organic separation and other emerging applications such as sensors. This book aims to give a balanced treatment of the subject area, allowing the reader an excellent overall perspective of new theoretical results that can be applied to advanced materials, as well as the separation of polymers. The contributions will provide a compact source of relevant and timely information and will be of interest to government, industrial and academic polymer chemists, chemical engineers and materials scientists, as well as an ideal introduction to students.

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