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The new edition of a classic text and reference The large chains of molecules known as polymers are currently used in everything from "wash and wear" clothing to rubber tires to protective enamels and paints. Yet the practical applications of polymers are only increasing; innovations in polymer chemistry constantly bring both improved and entirely new uses for polymers onto the technological playing field. Principles of Polymerization, Fourth Edition presents the classic text on polymer synthesis, fully updated to reflect today's

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state of the art. New and expanded coverage in the Fourth Edition includes: * Metallocene and post-metallocene polymerization catalysts * Living polymerizations (radical, cationic, anionic) * Dendrimer, hyperbranched, brush, and other polymer architectures and assemblies * Graft and block copolymers * High-temperature polymers * Inorganic and organometallic polymers * Conducting polymers * Ring-opening polymerization * In vivo and in vitro polymerization

Appropriate for both novice and advanced students as well as professionals, this comprehensive yet accessible resource enables the reader to achieve an advanced, up-to-date

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synthesis. Different methods of polymerization, reaction parameters for synthesis, molecular weight, branching and crosslinking, and the chemical and physical structure of polymers all receive ample coverage. A thorough discussion at the elementary level prefaces each topic, with a more advanced treatment following. Yet the language throughout remains straightforward and geared towards the student. Extensively updated, Principles of Polymerization, Fourth Edition provides an excellent textbook for today's students of polymer chemistry, chemical engineering, and materials science, as well as a current reference for the

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researcher or other practitioner working in these areas.

This revolutionary and best-selling resource contains more than 200 pages of additional information and expanded discussions on zeolites, bitumen, conducting polymers, polymerization reactors, dendrites, self-assembling nanomaterials, atomic force microscopy, and polymer processing. This exceptional text offers extensive listings of laboratory exercises and demonstrations, web resources, and new applications for in-depth analysis of synthetic, natural, organometallic, and inorganic polymers. Special sections discuss human genome and

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protonics, recycling codes and solid waste, optical fibers, self-assembly, combinatorial chemistry, and smart and conductive materials.

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 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

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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.

Focuses on polymer chemistry. This text is suitable for students who have studied in an Indian University for a BSc degree.

This book is a concise textbook on polymer physics for graduate students. Researchers in physics, physical chemistry and chemical

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Engineers who are interested in complex fluids can also benefit from the book.

Fundamental concepts and reactions explained through polymers from plants and animals
Macromolecular structures introduced via biological polymers
Includes a course syllabus, study questions and exercises
Extensive lab guidance and protocols for DNA isolation, amplification using PCR Full color figures shown throughout the text
This book connects modern synthetic polymer chemistry to its roots by exploring the chemistry of natural polymers and self-assembled macromolecular structures. Designed to introduce students to the basics of polymer

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science, the text investigates intermolecular forces, functional groups and key reactions by means of polymers found in, and produced by, living plants and animals, including proteins, rubber, DNA, fibers, lignin, carbohydrates and many others. The author explains how varied natural polymeric systems illustrate a wide array of fundamental polymer concepts. Key analogies are demonstrated between mechanisms in biological and synthetic polymerization, and the text uses growth, DNA replication, self-assembly and other biological processes to assist the student in mastering the terminology and molecular-level mechanisms of polymer chemistry. To guide both

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Instructors and students the book includes the outline of a one-semester course syllabus, end-of-chapter questions, as well as detailed instructions for setting up multiple labs dealing with gene isolation and amplification using polymerase chain reaction techniques (PCR). Each chapter also offers exercises based on real-world examples.

New edition brings classic text up to date with the latest science, techniques, and applications With its balanced presentation of polymer chemistry, physics, and engineering applications, the Third Edition of this classic text continues to instill readers with a solid understanding of the core concepts underlying polymeric

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materials. Both students and

instructors have praised the text for its clear explanations and logical organization. It begins with molecular-level considerations and then progressively builds the reader's knowledge with discussions of bulk properties, mechanical behavior, and processing methods. Following a brief introduction, *Fundamental Principles of Polymeric Materials* is divided into four parts: Part 1: Polymer Fundamentals Part 2: Polymer Synthesis Part 3: Polymer Properties Part 4: Polymer Processing and Performance Thoroughly Updated and Revised Readers familiar with the previous edition of this text will find that the organization and style have been updated with

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new material to help them grasp key concepts and discover the latest science, techniques, and applications. For example, there are new introductory sections on organic functional groups focusing on the structures found in condensation polymerizations. The text also features new techniques for polymer analysis, processing, and microencapsulation as well as emerging techniques such as atom transfer radical polymerization. At the end of each chapter are problems—including many that are new to this edition—to test the reader's grasp of core concepts as they advance through the text. There are also references leading to the primary

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literature for further investigation of individual topics. A classic in its field, this text enables students in chemistry, chemical engineering, materials science, and mechanical engineering to fully grasp and apply the fundamentals of polymeric materials, preparing them for more advanced coursework.

The demonstrations capture interest, teach, inform, fascinate, amaze, and perhaps, most importantly, involve students in chemistry. Nowhere else will you find books that answer, "How come it happens? . . . Is it safe? . . . What do I do with all the stuff when the demo is over?" Shakhshiri and his collaborators offer 282 chemical

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Demonstrations arranged in 11 chapters. Each demonstration includes seven sections: a brief summary, a materials list, a step-by-step account of procedures to be used, an explanation of the hazards involved, information on how to store or dispose of the chemicals used, a discussion of the phenomena displayed and principles illustrated by the demonstration, and a list of references.

This book presents the proceedings of the Second International Conference on Frontiers of Polymers and Advanced Materials held in Jakarta, Indonesia during January 10-15, 1993. This conference was organized and sponsored by the

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Polymerization Processes Indonesian Institute of Sciences (LIPI), the State University of New York (SUNY) at Buffalo, the Agency for Assessment and Application of Technology (BPPT), and the Indonesian Polymer Association. The 244 participants represented a total of 24 countries and a wide variety of academic, industrial and government groups. The inauguration was held in the Royal Palace and was performed by President Soeharto of Indonesia. High level media coverage ensured worldwide recognition. The need for such a conference was emphasized by the fact that polymers have emerged as an important class of materials offering challenging opportunities for both

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fundamental research and new technological applications. There has been a tremendous growth of interest in the field of polymers, both in academia and in industry, and polymer science offers tremendous opportunities for both fundamental and applied work. This globally represented Second International Conference on Frontiers of Polymers and Advanced Materials was timely, especially given the current heightened enthusiasm for polymers and emerging novel applications.

This book provides a comprehensive introduction to the study of polymers. Special emphasis is given to the characteristics that set polymers

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apart from small molecules, as studied in classic chemistry courses. The various branches of polymer science are introduced and discussed in a systematic manner, starting from basic chemical structures, continuing through supermolecular organization and physical properties. Specific examples are used throughout to illustrate how end usage relates to the principles under discussion. A series of chapters is devoted to case studies describing the principal classes of synthetic polymers. Content includes: - Polymerization - Characterization of Polymers - Rheological Description of Polymer Melts - Structural Development - Properties - Compounding and

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Principles of Polymerization
Seymour/Carraher's Polymer Chemistry An Introduction to Polymer Chemistry Introductory Polymer Chemistry Introduction to Polymer Physics Introduction to Polymer Chemistry Fundamental Principles of Polymeric Materials Chemical Demonstrations

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Chemistry Introduction to Polymer
Chemistry, Second Edition

Polymer Chemistry Carraher's
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Engineering with Polymers, 2nd
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