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The Elements of Polymer Science and Engineering, Third Edition, is a textbook for one- or two-semester introductory courses in polymer science and engineering taught primarily to senior undergraduate and first-year graduate students in a variety of disciplines, but primarily chemical engineering and materials science.

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MSE 4775: Polymer Science and Engineering I (required ...
Textbook: Essentials of Polymer Science and Engineering, by Paul C Painter & Michael M Coleman; Additional reading materials: The physics of rubber elasticity, by L.R.G. Treloar; Principles of polymer chemistry, by P.J. Flory. Polymer physics, by M. Rubinstein and R.H. Colby

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Materials Science and Engineering, 25 (1976) 87 - 91 Elsevier Sequoia S.A., Lausanne -- Printed in the Netherlands The Effects of Gaseous Environments on Polymers NORMAN BROWN
Department of Metallurgy and Materials Science, University of Pennsylvania, Philadelphia, Pa. 19174 (U.S.A.) 1.

The effects of gaseous environments on polymers ...
The mechanical properties of textile fibres. R. Meredith, Editor. Interscience, New York; N. Holland, Amsterdam, 1956. 340 pp. \$8.75

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version: Jenkins, Aubrey Dennis. Polymer science. Amsterdam, North-Holland Pub. Co., 1972

Polymer science : a materials science handbook (eBook ...
Molecular theory of fluids. H. S. Green, University of Adelaide.
Interscience, New York; North-Holland, Amsterdam, 1952. vii +
264 pp., \$5.75.

This book is at once an introduction to polymers and an imaginative invitation to the field of polymer science and engineering as a whole, including plastics and plastics processing. Created by two of the best-known scientists in America, the text explains and helps students as well as professionals appreciate all major topics in polymer chemistry and engineering: polymerization synthesis and kinetics, applications of probability theory, structure and morphology, thermal and solution properties, mechanical properties, biological properties and plastics processing methods. Essentials of Polymer Science and Engineering, designed to supercede many standard texts (including the authors'), is unique in a number of ways. Special attention has been paid to explaining fundamentals and providing high-level visuals. In addition, the text is replete with engaging profiles of polymer chemists and their discoveries. The book explains the science of polymer engineering, and at the same time, tells the story of the field from its beginnings to the present, indicating when and how polymer discoveries have played a role in history and society. The book comes well equipped with study questions and problems and is suitable for a one- or two-semester course for chemistry students at the undergraduate and graduate levels.

Now in its second edition, this widely used text provides a unique presentation of today's polymer science. It is both comprehensive

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and readable. The authors are leading educators in this field with extensive background in industrial and academic polymer research. The text starts with a description of the types of microstructures found in polymer

The study of polymers is known as polymer science. It comprises polymer physics, polymer chemistry, biophysics, and materials science and engineering. Polymer science and engineering is concerned with polymerization chemistry, polymerization catalysis, materials characterization, structure-property relationships, etc. It also deals with biomass, biorenewables, conducting polymers, biomimetic polymers, degradability and life cycle analysis, and controlled release formulations. Polymer science and engineering plays an important role in energy security, access to clean water, protection of the environment, and affordable healthcare. It focuses on every single process in the life cycle of a polymer ranging from monomer synthesis to product development. This book elucidates the concepts and innovative models around prospective developments with respect to polymer science and engineering. It unravels the recent studies in this field. This book will provide comprehensive knowledge to the readers.

Filling a gap in the market, this textbook provides a concise, yet thorough introduction to polymer science for advanced engineering students and practitioners, focusing on the chemical, physical and materials science aspects that are most relevant for engineering applications. After covering polymer synthesis and properties, the major section of the book is devoted to polymeric materials, such as thermoplastics and polymer composites, polymer processing such as injection molding and extrusion, and methods for large-scale polymer characterization. The text concludes with an overview of engineering plastics. The emphasis throughout is on application-relevant topics, and the author focuses on real-life, industry-relevant polymeric materials.

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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 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.

Discover why materials behave as the way they do with ESSENTIALS OF MATERIALS SCIENCE AND ENGINEERING, 4TH Edition. Materials engineering explains how to process materials to suit specific engineering designs. Rather than simply memorizing facts or lumping materials into broad categories, you gain an understanding of the whys and hows behind materials science and engineering. This knowledge of materials science provides an important a framework for comprehending the principles used to engineer materials. Detailed solutions and meaningful examples assist in learning principles while numerous

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end-of-chapter problems offer significant practice. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Exploring the characterization, thermodynamics and structural, mechanical, thermal and transport behavior of polymers as melts, solutions and solids, this text covers essential concepts and breakthroughs in reactor design and polymer production and processing. It contains modern theories, end-of-chapter problems and real-world examples for a clear understanding of polymer function and development. Fundamentals of Polymer Engineering, Second Edition provides a thorough grounding in the fundamentals of polymer science for more advanced study in the field of polymers. Topics include reaction engineering of step-growth polymerization, emulsion polymerization, and polymer diffusion.

Engineering of polymers is not an easy exercise: with evolving technology, it often involves complex concepts and processes. This book is intended to provide the theoretical essentials: understanding of processes, a basis for the use of design software, and much more. The necessary physical concepts such as continuum mechanics, rheological behavior and measurement methods, and thermal science with its application to heating-cooling problems and implications for flow behavior are analyzed in detail. This knowledge is then applied to key processing methods, including single-screw extrusion and extrusion die flow, twin-screw extrusion and its applications, injection molding, calendaring, and processes involving stretching. With many exercises with solutions offered throughout the book to reinforce the concepts presented, and extensive illustrations, this is an essential guide for mastering the art of plastics processing. Practical and didactic, Polymer Processing: Principles and Modeling is intended for engineers and technicians of the profession, as well as for advanced students in Polymer Science and Plastics Engineering.

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Provides an easy-to-read introduction to the area of polymer flooding to improve oil production The production and utilization of oil has transformed our world. However, dwindling reserves are forcing industry to manage resources more efficiently, while searching for alternative fuel sources that are sustainable and environmentally friendly. Polymer flooding is an enhanced oil recovery technique that improves sweep, reduces water production, and improves recovery in geological reservoirs. This book summarizes the key factors associated with polymers and polymer flooding—from the selection of the type of polymer through characterization techniques, to field design and implementation—and discusses the main issues to consider when deploying this technology to improve oil recovery from mature reservoirs. Essentials of Polymer Flooding Technique introduces the area of polymer flooding at a basic level for those new to petroleum production. It describes how polymers are used to improve efficiency of “chemical” floods (involving surfactants and alkaline solutions). The book also offers a concise view of several key polymer-flooding topics that can’t be found elsewhere. These are in the areas of pilot project design, field project engineering (water quality, oxygen removal, polymer dissolution equipment, filtration, pumps and other equipment), produced water treatment, economics, and some of the important field case histories that appear in the last section. Provides an easy to read introduction to polymer flooding to improve oil production whilst presenting the underlying mechanisms Employs “In A Nutshell” key point summaries at the end of each chapter Includes important field case studies to aid researchers in addressing time- and financial-consumption in dealing with this issue Discusses field engineering strategies appropriate for professionals working in field operation projects Essentials of Polymer Flooding Technique is an enlightening book that will be of great interest to petroleum engineers, reservoir engineers, geoscientists, managers in petroleum industry, students

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in the petroleum industry, and researchers in chemical enhanced oil recovery methods.

Tremendous developments in the field of polymer science, its growing importance, and an increase in the number of polymer science courses in both physics and chemistry departments have led to the revision of the First Edition. This new edition addresses subjects as spectroscopy (NMR), dynamic light scattering, and other modern techniques unknown before the publication of the First Edition. The Second Edition focuses on both theory (physics and chemistry) and engineering applications which make it useful for chemistry, physics, and chemical engineering departments. Key Features * Focuses on applications of polymer chemistry, engineering and technology * Explains terminology, applications and versatility of synthetic polymers * Connects polymerization chemistry with engineering applications * Leads reader from basic concepts to technological applications * Highlights the vastly valuable resource of polymer technology * Uses quantitative examples and problems to fully develop concepts * Contains practical lead-ins to emulsion polymerization, viscoelasticity and polymer rheology

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