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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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Catalog Description: (3-0-3) Prerequisites: MSE 2001 and CHEM 2311 An introduction to the chemistry, structure, and formation of polymers, physical states and transitions, physical and mechanical properties of polymer fluids and solids. Textbook: Paul C. Painter and Michael M. Coleman, Essentials of Polymer Science and Engineering, Destech Publications, Inc., ISBN: 978-1932078756.

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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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The mechanical properties of textile fibres. R. Meredith ...

Genre/Form: Electronic books: Additional Physical Format: Print 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 supersede 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

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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 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 materials. This forms the basis of understanding some of the key features of the various mechanisms of homopolymerization and copolymerization that are discussed in following chapters. Also discussed in these chapters are the kinetics and statistics of polymerization with a separate chapter on the characterization of chain structure by spectroscopic methods. The next part of the text deals with chain conformation, structure and morphology, leading to a discussion of crystallization, melting and glass transition. The discussion then moves from solid state to solution properties where solution thermodynamics is introduced. This provides the basis for discussion of the measurement of molecular weight by various solution methods. The final chapter deals with mechanical and rheological properties, which are discussed from a phenomenological continuum approach and then in terms of a fundamental molecular perspective. Altogether, the text provides a comprehensive, lucid introduction to today's polymer science as a foundation to the R&D of polymeric materials. More than 200 schematics and other figures illustrate key concepts and important aspects of polymeric materials. The text

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will be useful as an update for polymer and other materials scientists in industry, and as an introduction to engineers working with polymeric materials who would benefit from a better understanding of polymer science basics.

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.

This text provides students with a solid understanding of the relationship between the structure, processing, and properties of materials. Authors Donald Askeland and Pradeep Fulay teach the fundamental concepts of atomic structure and materials behaviors and clearly link them to the materials issues that students will have to deal with when they enter the industry or graduate school (e.g. design of structures, selection of materials, or materials failures). While presenting fundamental concepts and linking them to practical applications, the

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authors emphasize the necessary basics without overwhelming the students with too much of the underlying chemistry or physics. The book covers fundamentals in an integrated approach that emphasizes applications of new technologies that engineered materials enable. New and interdisciplinary developments in materials field such as nanomaterials, smart materials, micro-electro-mechanical (MEMS) systems, and biomaterials are also discussed. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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

Organic and Physical Chemistry of Polymers provides a thorough introduction to the fundamentals of polymers, including their structure and synthesis as well as their chemical and physical properties. This accessible guide illuminates the increasingly important role of polymers in modern chemistry, beginning with the essentials, then covering thermodynamics, conformation, morphology, and measurements of molar masses; polymerization mechanisms, reaction of polymers, synthesis of block and graft polymers, and complex topologies; and the mechanical properties, rheology, polymer processing, and fabrication of fibers and films.

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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 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.

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

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

Food, pharmaceutical, cosmetics, home-care materials, and many more essential products for modern life: all require appropriate packaging, and polymers very often provide the optimal solution. Based on the author's popular course on polymer packaging at the University of Applied Sciences, Stuttgart, Technology of Polymer Packaging provides an essential, user-friendly introduction to the field of polymer packaging suitable for students, people in industry, and particularly all those who deal with packaging but have a background other than that of a polymer technologist or packaging specialist.

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