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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 87 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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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 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 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.

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.

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.

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.

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 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.

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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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