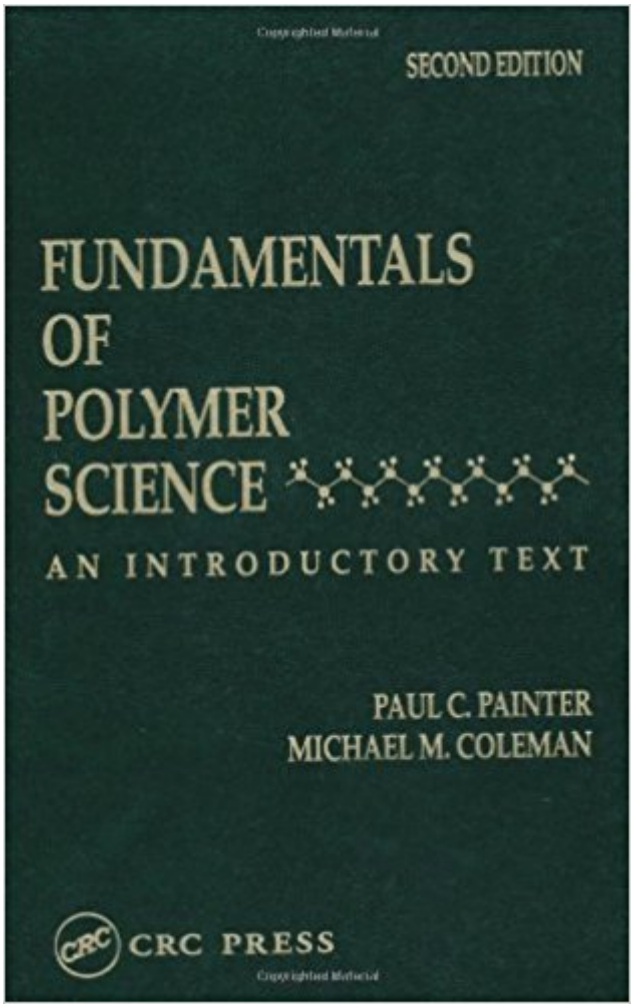
Ebook Directory
the best source of ebook

The book was found

Fundamentals Of Polymer Science: An Introductory Text



PDF
Adobe
DOWNLOAD EBOOK

Synopsis

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 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.

Book Information

Hardcover: 496 pages
Publisher: CRC Press; 2nd edition (April 30, 1998)
Language: English
ISBN-10: 1566765595
ISBN-13: 978-1566765596
Product Dimensions: 6.3 x 1.2 x 9.3 inches
Shipping Weight: 1.8 pounds (View shipping rates and policies)
Average Customer Review: 5.0 out of 5 stars 8 customer reviews
Best Sellers Rank: #455,751 in Books (See Top 100 in Books) #24 inÃ Â Books > Crafts, Hobbies & Home > Antiques & Collectibles > Antiques Care & Reference > Care & Restoration #102 inÃ Â Books > Engineering & Transportation > Engineering > Materials & Material Science >

Polymers & Textiles #489 inÃ Â Books > Engineering & Transportation > Engineering > Materials & Material Science > Materials Science

Customer Reviews

"This is, quite simply, the besttextbook on polymer science I have ever read. Why such strong praise? Because the writing style is colloquialand the whole book screams of the authors' tremendous enthusiasm for the subject. The authors are clearly experienced teachers." - Chemistry in Britain (The Royal Society of Chemistry) "The topics covered are treated in considerable detail and generally with high credibility. [T]he writing style and format are quite accessible to the reader." - Robert Burford, Department of Materials Science, University of NSW in Materials Australia "The book is very strong on experimental techniques (especially spectroscopic techniques) for polymer characterization. Recommended." - Nicholas A. Peppas, School of Chemical Engineering, Purdue University "deep and understandable view of specific aspects of the chemistry and physics of polymers." - Revista de Plasticos Modernos (Journal of Modern Plastics)

A really great guide to polymer science. Easy to understand and the author adds a bit of humor to some otherwise dull sections of the text. I wish I bought it instead of renting it.

Excellent book for polymer basics and fundamental ideas. Very easy to follow and self-study. Lots of problems at the end of each chapter with varying difficulty level. Highly recommended for beginners in polymers!

Michael and Paul present a comprehensive view of polymer science at a level suitable for an advanced undergraduate or graduate level course. The text is very readable, and their sly sense of humor enlivens the reading. I have used it in one course that I taught and both the students and I found it to be very useful.

Interesting book and worth reading. i highly recommend for any chemical engineering or polymer scientists. it one of the few books that I read from cover to cover

Great book got a used copy with no problems and minimal ware and tare for normal use.

A must have for polymer chemist. My boss kept my copy, have to buy a new one.

Nice condition.. Arrived on time... No complaints

great

Download to continue reading...

Elements of Polymer Science & Engineering, Second Edition: An Introductory Text and Reference for Engineers and Chemists (The Elements of Polymer Science and Engineering) Polymer Clay: The Ultimate Beginners Guide to Creating Animals in 30 Minutes or Less! (Polymer Clay - Polymer Clay for Beginners - Clay - Polyer Clay Animals - Polymer Clay Jewelry - Sculpture) Fundamentals of Polymer Science: An Introductory Text Cute Polymer Clay Popsicles & Ice Cream: Polymer Clay Kawaii Food Charms (Polymer Clay Kawaii Charms Book 1) The Elements of Polymer Science and Engineering, Third Edition (Elements of Polymer Science & Engineering) Methods of X-ray and Neutron Scattering in Polymer Science (Topics in Polymer Science) The Elements of Polymer Science and Engineering (Elements of Polymer Science & Engineering) Polymer clay: All the basic and advanced techniques you need to create with polymer clay SCULPTING THE EASY WAY IN POLYMER CLAY FOR BEGINNERS 2: How to sculpt a fairy head in Polymer clay (Sculpting the easy way for beginners) Polymer animal clay : Learning how to create life like animals out of polymer clay The Encyclopedia of Polymer Clay Techniques: A Comprehensive Directory of Polymer Clay Techniques Covering a Panoramic Range of Exciting Applications Polymer clay: All the basic and advanced techniques you need to create with polymer clay. (Volume 1) Polymer Synthesis, Second Edition: Volume 1 (Polymer Syntheses) Functional Polymer Coatings: Principles, Methods, and Applications (Wiley Series on Polymer Engineering and Technology) Texting Women: 7 Simple Steps From Text to Sex (Flirty Texts, Texting Girls, How To Text Girls, Art Seduction, How to Seduce a Woman, Funny Text, Pick Up Women, Funny Pick Up Lines, Picking Up Women) Meat Science: An Introductory Text (Modular Texts Series) Introductory DC/AC Electronics And Introductory DC/AC Circuits: Laboratory Manual, 6th Edition Forensic Science: Fundamentals and Investigations (Forensic Science, Fundamentals and Investigations) Plastic Injection Molding: Product Design & Material Selection Fundamentals (Vol II: Fundamentals of Injection Molding) (Fundamentals of injection molding series) Plastic Injection Molding: Mold Design and Construction Fundamentals (Fundamentals of Injection Molding) (2673) (Fundamentals of injection molding series)

Contact Us

DMCA

Privacy

FAQ & Help