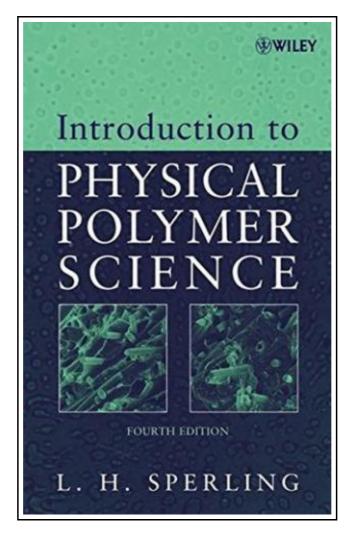
Introduction to Physical Polymer Science



Filesize: 7.31 MB

Reviews

This pdf will not be simple to start on reading through but extremely enjoyable to see. I have read and i also am sure that i will planning to read through again once more in the foreseeable future. You wont really feel monotony at whenever you want of the time (that's what catalogues are for relating to if you request me).

(Mallory Kertzmann V)

INTRODUCTION TO PHYSICAL POLYMER SCIENCE



Wiley-Interscience, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface to the Fourth Edition. Preface to the First Edition. Symbols and Definitions. 1. Introduction to Polymer Science. 1.1. From Little Molecules to Big Molecules. 1.2. Molecular Weight and Molecular Weight Distributions. 1.2.1. Effect on Tensile Strength. 1.2.2. Molecular Weight Averages. 1.3. Major Polymer Transitions. 1.4. Polymer Synthesis and Structure. 1.4.1. Chain Polymerization. 1.4.1.1. Free Radical Polymerization. 1.4.1.2. Initiation. 1.4.1.3. Propagation. 1.4.1.4. Termination. 1.4.1.5. Structure and Nomenclature. 1.4.2. Step Polymerization. 1.4.2.1. A Polyester Condensation Reaction. 1.4.2.2. Stepwise Nomenclature and Structures. 1.4.2.3. Natural Product Polymers. 1.5. Cross-Linking, Plasticizers, and Fillers. 1.6. The Macromolecular Hypothesis. 1.7. Historical Development of Industrial Polymers. 1.8. Molecular Engineering. References. General Reading. Handbooks, Encyclopedias, and Dictionaries. Web Sites. Study Problems. Appendix 1.1. Names for Polymers. 2. Chain Structure and Configuration. 2.1. Examples of Configurations and Conformations. 2.1.1. Head-to-Head and Head-to-Tail Configurations. 2.1.2. Trans-Gauche Conformations. 2.2. Theory and Instruments. 2.2.1. Chemical Methods of Determining Microstructure. 2.2.2. General Physical Methods. 2.2.3. Infrared and Raman Spectroscopic Characterization. 2.2.4. Nuclear Magnetic Resonance Methods. 2.3. Stereochemistry of Repeating Units. 2.3.1. Chiral Centers. 2.3.2. Tacticity in Polymers. 2.3.3. Mesoand Racemic Placements. 2.3.4. Proton Spectra by NMR. 2.4. Repeating Unit Isomerism. 2.4.1. Optical Isomerism. 2.4.2. Geometric Isomerism. 2.4.3. Substitutional Isomerism. 2.4.4. Infrared and Raman Spectroscopic Characterization. 2.5. Common Types of Copolymers. 2.5.1. Unspecified Copolymers. 2.5.2. Statistical Copolymers. 2.5.3. Random copolymers. 2.5.4. Alternating Copolymers. 2.5.5. Periodic Copolymers. 2.6. NMR in Modern Research. 2.6.1. Dilute Solution Studies: Mer Distribution. 2.6.2. High-Resolution NMR in the Solid State. 2.7. Multicomponent Polymers. 2.7.1. Block Copolymers. 2.7.2. Graft Copolymers. 2.7.3. AB-Crosslinked Copolymers. 2.7.4. Interpenetrating Polymer Networks. 2.7.5. Other Polymer-Polymer Combinations. 2.7.6. Separation and Identification of Multicomponent Polymers. 2.8. Conformational States in Polymers. 2.9. Analysis of Polymers during Mechanical Strain. 2.10. Photophysics of Polymers....

- Read Introduction to Physical Polymer Science Online
- Download PDF Introduction to Physical Polymer Science

Relevant Kindle Books



Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)

HarperCollins, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+Customer Service! Summary: Foreword by Raph Koster. Introduction. I. EXECUTIVE CONSIDERATIONS. 1. The Market. Do We Enter the Market? Basic Considerations. How...

Read PDF »



The Web Collection Revealed, Premium Edition: Adobe Dreamweaver CS6, Flash CS6, and Photoshop CS6 (Stay Current with Adobe Creative Cloud)

Cengage Learning, 2012. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: You can now maximize and integrate the design and development power of Adobe Creative Suite 6 with WEB...

Read PDF »



Star Flights Bedtime Spaceship: Journey Through Space While Drifting Off to Sleep

CreateSpace Independent Publishing Platform, 2013. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: "Star Flights Bedtime Spaceship" is a charming and fun story with the purpose to help children...

Read PDF »



Maisy's Christmas Tree

Candlewick, 2014. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: The final scene of the gang caroling around the tree, complete with paper crowns from British Christmas crackers, is...

Read PDF »



TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the...

Read PDF »