1. Record Nr. UNINA990006940920403321

Autore	Ferguson, Adam <1723-1816>
Titolo	An essay on the history of civil society. By Adam Ferguson, LL.D. Professor of moral philosophy in the University of Edinburgh
Pubbl/distr/stampa	Basil : printed by J.J. Tourneisen, 1789
Edizione	[A new edition]
Descrizione fisica	VI, 424 p. ; 8°
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Collocazione	XV N 80
Lingua di pubblicazione	Inglese
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2. Record Nr. UNINA9911019445903321

Autore	Carraher Charles E
Titolo	Giant molecules : essential materials for everyday living and problem solving
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, c2003
ISBN	9786610366064 9781280366062 1280366060 9780470307953 0470307951 9780471457213 0471457213 9780471457190 0471457191
Edizione	[2nd ed. /]
Descrizione fisica	1 online resource (501 p.)
Altri autori (Persone)	SeymourRaymond B <1912-1991.> (Raymond Benedict)
Disciplina	668.9
Soggetti	Polymers Plastics

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Note generali	Rev. ed. of: Giant molecules / Raymond B. Seymour, Charles E. Carraher. c1990. Includes index.
Nota di contenuto	GIANT MOLECULES Second Edition; CONTENTS; Preface; 1 The Building Blocks of Our World; 1.1 Introduction; 1.2 Setting the Stage; 1.3 Basic Laws; 1.4 Matter/Energy; 1.5 Symbols for the Elements; 1.6 Elements; 1.7 Atoms; 1.8 Classical Atomic Structure; 1.9 Modern Atomic Structure; 1.10 Periodicity; 1.11 Molecular Structure; 1.12 Chemical Equations; 1.13 Chemical Bonding; 1.14 Intermolecular Forces; 1.15 Units of Measurement; Glossary; Review Questions; Bibliography; Answers to Review Questions; 2 Small Organic Molecules; 2.1 Introduction; 2.2 Early Developments in Organic Chemistry; 2.3 Alkanes 2.4 Unsaturated Hydrocarbons (Alkenes)2.5 Aliphatic Compounds; 2.6 Unsaturated Compounds; 2.7 Benzene and Its Derivatives (Aromatic Compounds); 2.8 Heterocyclic Compounds; 2.9 Polymeric Structure; 2.10 Structures; Glossary; Review Questions; Bibliography; Answers to Review Questions; 3 Introduction to the Science of Giant Molecules; 3.1 A Brief History of Chemical Science and Technology; 3.2 Polymerization; 3.3 Importance of Giant Molecules; 3.4 Polymer Properties; A. Memory; B. Solubility and Flexibility; C. Cross-Links; 3.5 A Few Definitions of Polymers (Macromolecules) 3.6 Polymer Structure3.7 Molecular Weights of Polymers; 3.8 Polymeric Transitions; 3.9 Testing of Polymers; 3.10 Chemical Names of Polymers; 3.11 Trade Names of Polymers; 3.12 Importance of Descriptive Nomenclature; 3.13 Marketplace; Glossary; Review Questions; Bibliography; Answers to Review Questions; 4 Relationships Between the Properties and Structure of Giant Molecules; 4.1 General; 4.2 Elastomers; 4.3 Fibers; 4.4 Plastics; 4.5 Adhesives; 4.6 Coatings; 4.7 Polyblends and Composites; 4.8 Crystalline-Amorphous Structures; A. Chain Flexibility; B. Intermolecular Forces C. Structural RegularityD. Steric Effects; 4.9 Summary; Glossary; Review Questions; Bibliography; Answers to Review Questions; 5 Physical and Chemical Testing of Polymers; 5.1 Testing Organizations; 5.2 Evaluation of Test Data; 5.3 Stress/Strain Relationships; 5.4 Heat Deflection Test; 5.5 Coefficient of Linear Expansion; 5.6 Compressive Strength; 5.7 Flexural Strength; 5.8 Impact Test; 5.9 Tensile Strength; 5.10 Hardness Test; 5.11 Glass Transition Temperature and Melting Point; 5.12 Density (Specific Gravity); 5.13 Resistance to Chemicals; 5.14 Water Absorption; Glossary; Review Questions BibliographyAnswers to Review Questions; 6 Thermoplastics; 6.1 Introduction; 6.2 Polyethylenes-History; 6.3 High-Density Polyethylene; 6.4 Low-Density Polyethylene; 6.5 Ultrahigh-Molecular-Weight Polyethylene; 6.6 Linear Low-Density Polyethylene; 6.7 Cross-Linked Polyethylene; 6.8 Other Copolymers of Ethylene; 6.9 Polypropylene; 6.10 Other Polyolefins; 6.11 Polystyrene; 6.12 Styrene Copolymers; 6.13 Poly(Vinyl Chloride) and Copolymers; 6.14 Fluorocarbon Polymers; 6.15 Acrylic Polymers; 6.16 Poly(Vinyl Acetate); 6.17 Poly(Vinyl Ethers); 6.18 Cellulosics; 6.19 Plastics Processing A. Introduction
Sommario/riassunto	The Second Edition of Giant Molecules presents an introductory textbook on large molecules that exhibit specific physical and biological properties related to their size, orientation, and environment,

making this subject accessible to students from high school to universities.Written by Charles Carraher, author of more than forty books on the subject, this up-to-date guide presents material in an integrated fashion, marrying fundamentals with illustrative applications. The text assumes no previous formal scientific training, and includes new and updated questions and answers, a glossary of