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Standard Free Energy of Hydrolysis of ATP; 5.4 Chemical Kinetics; 5.5 Energy Metabolism; 5.6 Obesity; Supplemental Readings and References; Chapter 6. Enzymes I: General Properties , Kinetics , and Inhibition; 6.1 Nomenclature; 6.2 Catalysis; 6.3 Kinetics of Enzymes Catalyzing Two-Substrate Reactions; 6.4 Inhibition; 6.5 Kinetics of Ligand-Receptor Interaction; 6.6 Mechanisms of Enzyme Action; Supplemental Readings and References; Chapter 7. Enzymes II: Regulation; 7.1 Types of Regulation; 7.2 Allosteric Enzyme Regulation Supplemental Readings and ReferencesChapter 8. Enzymes III: Clinical Applications; 8.1 Diagnosis and Prognosis of Disease; 8.2 Serum Markers in the Diagnosis of Tissue Damage; 8.3 Enzymes as Analytical Reagents; 8.4 Enzymes as Therapeutic Agents; Supplemental Readings and References; Chapter 9. Simple Carbohydrates; 9.1 Classification; Supplemental Readings and References; Chapter 10. Heteropolysaccharides I: Glycoproteins and Glycolipids; 10.1 Glycoproteins; 10.2 Cell Membrane Constituents; 10.3 Cell-Surface Glycoproteins; 10.4 Serum Glycoproteins
10.5 Molecular Mimicry of Oligosaccharides and Host SusceptibilitySupplemental Readings and References; Chapter 11. Heteropolysaccharides II: Proteoglycans and Peptidoglycans; 11.1 Protein Fibers and Proteoglycans; 11.2 Peptidoglycans; 11.3 Lectins; Supplemental Readings and References; Chapter 12. Gastrointestinal Digestion and Absorption; 12.1 Anatomy and Physiology of the GI Tract; 12.2 Gastrointestinal Hormones; 12.3 Digestion and Absorption of Major Food Substances; 12.4 Absorption of Water and Electrolytes; 12.5 Thermic Effect of Food; Supplemental Readings and References Chapter 13. Carbohydrate Metabolism I: Glycolysis and TCA Cycle

Sommario/riassunto

Thoroughly updated and in a new two-color format, this well-respected text presents the fundamentals of biochemistry and related topics to students pursuing a one- or two-semester course in pre-med biochemistry or medical programs. The second edition is equally applicable to other health-related fields such as clinical chemistry, medical technology or pharmacology. Medical Biochemistry, Fourth Edition, focuses on the foundations and clinically relevant applications of normal human biochemistry and pathology. Abundantly illustrated with four-color plates.Revised chapters on mole

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Titolo	Functional polymer blends : synthesis, properties, and performances / / edited by Vikas Mittal
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ISBN	0-429-11022-7 1-280-12237-4 9786613526236 1-4398-5670-2
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Nota di contenuto	Front Cover; Contents; Preface; About the Editor; Contributors; Chapter 1: Functional Polymer Blends: Synthesis and Microstructures; Chapter 2: Miscibility Enhancement of Polymer Blends through Multiple Hydrogen Bonding Interactions; Chapter 3: Component Dynamics in Miscible Polymer Blends; Chapter 4: Shape Memory Polymer Blends; Chapter 5: Synthesis and Properties of Ethylene Methacrylate (EMA) Copolymer Toughened Polymethyl Methacrylate (PMMA) Blends; Chapter 6: Molecular Dynamics Simulation Studies of Binary Blend Miscibility Chapter 7: Conformation and Topology of Cyclic-Linear Polymer BlendsChapter 8: Strain Hardening in Polymer Blends with Fibril Morphology; Chapter 10: Directed Assembly of Polymer Blends Using Nanopatterned Chemical Surfaces; Back Cover
Sommario/riassunto	With their broad range of properties, polymer blends are widely used in adhesion, colloidal stability, the design of composite and biocompatible materials, and other areas. As the science and technology of polymer blends advances, an increasing number of polymer blend systems and applications continue to be developed. Functional Polymer Blends: Synthesis, Properties, and Performance presents the latest synthesis

	and characterization methodologies for generating polymer blend systems. This one-stop resource brings together both experimental and theoretical material, much of

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