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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 References; Chapter 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 Susceptibility Supplemental 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
