



Biochemistry (Lange USMLE Road Map Series)

By Richard G. MacDonald, William G. Chaney

McGraw-Hill Medical/Jaypee Brothers Medical Publishers, 2007. Softcover. Book Condition: New. First edition. You`ll never find an easier, more efficient, and more focused way to ace biochemistry and biochemistry-related questions on the USMLE and course examinations than the USMLE Road Map. Designed to provide maximum learning in minimum time, this fully updated USMLE Road Map offers a concise, creative, and well-illustrated approach to mastering biochemistry. Table of contents 1. Physiological Chemistry and Bonding A. Water as biochemical solvent B. Hydrogen bonding C. pH and buffers D. Other non-covalent interactions E. Fat-water interfaces2. Protein Structure and Function A. Amino acids B. Primary structure? protein sequence C. Secondary structures??-helix and ?-sheet D. Tertiary structure?domains E. Quaternary structure?subunits F. Fibrous proteins?collagen and elastin G. Globular proteins?myoglobin and hemoglobin H. Folding and chaperones3. Enzyme Structure and Function A. Types of enzymes?classification B. Kinetics? Michaelis-Menten enzymes C. Inhibition D. Allosteric regulation E. Mechanisms?chymotrypsin and ribonuclease4. DNA Structure and Function A. Purine and pyrimidine bases B. The DNA molecule C. Packaging into chromatin D. Replication E. Recombination and repair 5. RNA Structure and Function A. RNA structures?mRNA, rRNA, tRNA B. Transcription C. Splicing D. Ribonucleoprotein complexes 6. DNA and Chromosome Analysis A. Hybridization B. Nucleic acid electrophoresis C.



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