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Hole's human anatomy and physiology 9th edition pdf

Hole’s essentials of human anatomy and physiology.

Book Navigation The following chapters provide an overview of the human body's structure and function: 1. **An Introduction to the Human Body**: An introduction to the human body, including its organization and levels of complexity. 2. **Chemical Level of Organization**: The chemical composition of the body, including biomolecules and their interactions. 3. **Cellular Level of Organization**: The cell as the basic structural and functional unit of life. 4. **Tissue Level of Organization**: Tissues, which are groups of similar cells that perform specific functions. 5. **Integumentary System**: The skin and its accessory organs, which provide protection, regulate body temperature, and aid in sensation. **Musculoskeletal System** 1. **Bone Tissue and the Skeletal System**: The structure and function of bones, including their role in movement and support. 2. **Axial Skeleton**: The long bones that form the vertebral column and rib cage. 3. **Appendicular Skeleton**: The limbs, which are attached to the axial skeleton. **Muscular System** 1. **Muscle Tissue**: The structure and function of muscles, including their role in movement and support. 2. **The Muscular System**: The organization and integration of skeletal muscles. **Nervous System** 1. **The Nervous System and Nervous Tissue**: The structure and function of neurons, including their role in communication and control. 2. **The Peripheral Nervous System**: The nerves that connect the central nervous system to the rest of the body. 3. **The Central Nervous System**: The brain and spinal cord, which integrate and coordinate the functions of the body. **Sensory Systems** 1. **The Special Senses**: The senses of sight, sound, taste, smell, and touch. 2. **The Autonomic Nervous System**: The involuntary nervous system that regulates various bodily functions. **Endocrine System** 1. **The Endocrine System**: The glands that produce hormones, which regulate various bodily functions. **Circulatory System** 1. **The Cardiovascular System: Blood**: The structure and function of blood vessels. 2. **The Cardiovascular System: The Heart**: The structure and function of the heart. 3. **The Cardiovascular System: Blood Vessels and Circulation**: The circulation of blood throughout the body. **Urinary System** 1. **The Urinary System**: The organs that filter and excrete waste products from the body. **Respiratory System** 1. **The Respiratory System**: The organs that bring oxygen into the body and remove carbon dioxide. **Digestive System** 1. **The Digestive System**: The organs that break down food into nutrients for absorption by the body. **Metabolism and Nutrition** 1. **Metabolism and Nutrition**: The processes of energy production, storage, and utilization in the body. **Development and Inheritance** 1. **Development and Inheritance**: The genetic factors that influence development and inheritance. Charles Welsh, Ph.D., has been teaching Anatomy & Physiology for over thirty years. He holds a Bachelor's degree in Biology from the University of Pittsburgh and a Doctorate in Comparative Anatomy, Evolutionary Biology, and Ornithology from the same university. Cynthia Prentice-Craver, M.S., has taught Human Anatomy and Physiology for over twenty-eight years at Chemeketa Community College. She earned her Master's degree in Curriculum and Instruction and Bachelor's degree in Exercise Science. Cynthia's expertise stems from her affiliations with the Physiology Society (HAPS) and Textbook & Academic Authors Association (TAA). Her extensive professional portfolio boasts eight years as a program chair, curriculum development, committee work, and expert input for textbooks and digital content. Meanwhile, her personal interests lie in devouring written works, fitness classes, outdoor strolls, concert attendance, globe-trotting, and quality time with loved ones.