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Nota di contenuto	Cover -- Title -- Copyright -- Contents -- Chapter 1 The Human Body: An Orientation -- An Overview of Anatomy and Physiology -- Levels of Structural Organization -- Maintaining Life -- Homeostasis -- The Language of Anatomy -- At the Clinic -- The Finale: Multiple Choice -- Chapter 2 Basic Chemistry -- Concepts of Matter and Energy -- Composition of Matter -- Molecules, Chemical Bonds, and Chemical Reactions -- Biochemistry: The Composition of Living Matter -- Incredible Journey: A Visualization Exercise for Biochemistry -- At the Clinic -- The Finale: Multiple Choice -- Chapter 3 Cells and Tissues -- Cells -- Overview -- Anatomy of a Generalized Cell -- Cell Physiology -- Body Tissues -- Tissue Repair -- Developmental Aspects of Cells and Tissues -- Incredible Journey: A Visualization Exercise for the Cell -- At the Clinic -- The Finale: Multiple Choice -- Chapter 4 Skin and Body Membranes -- Classification of Body Membranes -- Integumentary System (Skin) -- Basic Functions of the Skin -- Basic Structure of the Skin -- Appendages of the Skin -- Homeostatic Imbalances of the Skin -- Developmental Aspects of the Skin and Body Membranes -- Incredible Journey: A Visualization Exercise for the Skin -- At the Clinic -- The Finale: Multiple Choice -- Chapter 5 The Skeletal System -- Bones-An Overview -- Axial Skeleton -- Skull -- Vertebral Column -- Thoracic Cage -- Appendicular Skeleton -- Bone Fractures -- Joints -- Homeostatic Imbalances of Bones and Joints --

Developmental Aspects of the Skeleton -- Incredible Journey: A Visualization Exercise for the Skeletal System -- At the Clinic -- The Finale: Multiple Choice -- Chapter 6 The Muscular System -- Overview of Muscle Tissues -- Microscopic Anatomy of Skeletal Muscle -- Skeletal Muscle Activity -- Muscle Movements, Types, and Names -- Gross Anatomy of the Skeletal Muscles -- Muscles of the Head. Muscles of the Trunk -- Muscles of the Hip, Thigh, and Leg -- Muscles of the Arm and Forearm -- General Body Muscle Review -- Developmental Aspects of the Muscular System -- Incredible Journey: A Visualization Exercise for the Muscular System -- At the Clinic -- The Finale: Multiple Choice -- Chapter 7 The Nervous System -- Organization of the Nervous System -- Nervous Tissue-Structure and Function -- Central Nervous System -- Brain -- Protection of the CNS -- Brain Dysfunctions -- Spinal Cord -- Peripheral Nervous System -- Structure of a Nerve -- Cranial Nerves -- Spinal Nerves and Nerve Plexuses -- Autonomic Nervous System (ANS) -- Developmental Aspects of the Nervous System -- Incredible Journey: A Visualization Exercise for the Nervous System -- At the Clinic -- The Finale: Multiple Choice -- Chapter 8 Special Senses -- The Eye and Vision -- The Ear: Hearing and Balance -- Chemical Senses: Smell and Taste -- Developmental Aspects of the Special Senses -- Incredible Journey: A Visualization Exercise for the Special Senses -- At the Clinic -- The Finale: Multiple Choice -- Chapter 9 The Endocrine System -- The Endocrine System and Hormone Function-An Overview -- The Major Endocrine Organs -- Other Hormone-Producing Tissues and Organs -- Developmental Aspects of the Endocrine System -- Incredible Journey: A Visualization Exercise for the Endocrine System -- At the Clinic -- The Finale: Multiple Choice -- Chapter 10 Blood -- Composition and Functions of Blood -- Hemostasis -- Blood Groups and Transfusions -- Developmental Aspects of Blood -- Incredible Journey: A Visualization Exercise for the Blood -- At the Clinic -- The Finale: Multiple Choice -- Chapter 11 The Cardiovascular System -- The Heart -- Anatomy of the Heart -- Physiology of the Heart -- Blood Vessels -- Microscopic Anatomy of Blood Vessels -- Gross Anatomy of Blood Vessels. Physiology of Circulation -- Developmental Aspects of the Cardiovascular System -- Incredible Journey: A Visualization Exercise for the Cardiovascular System -- At the Clinic -- The Finale: Multiple Choice -- Chapter 12 The Lymphatic System and Body Defenses -- The Lymphatic System -- Lymphatic Vessels -- Lymph Nodes and Other Lymphoid Organs -- Body Defenses -- Nonspecific (Innate) Body Defenses -- Specific (Adaptive) Body Defenses: The Immune System -- Disorders of Immunity -- Developmental Aspects of the Lymphatic System and Body Defenses -- Incredible Journey: A Visualization Exercise for the Immune System -- At the Clinic -- The Finale: Multiple Choice -- Chapter 13 The Respiratory System -- Functional Anatomy of the Respiratory System -- Respiratory Physiology -- Respiratory Disorders -- Developmental Aspects of the Respiratory System -- Incredible Journey: A Visualization Exercise for the Respiratory System -- At the Clinic -- The Finale: Multiple Choice -- Chapter 14 The Digestive System and Body Metabolism -- Anatomy of the Digestive System -- Physiology of the Digestive System -- Nutrition and Metabolism -- Nutrients Used by Body Cells -- Metabolic Processes -- Developmental Aspects of the Digestive System -- Incredible Journey: A Visualization Exercise for the Digestive System -- At the Clinic -- The Finale: Multiple Choice -- Chapter 15 The Urinary System -- Kidneys -- Location and Structure -- Nephrons, Urine Formation, and Control of Blood Composition -- Ureters, Urinary Bladder, and Urethra -- Fluid, Electrolyte, and Acid-Base Balance -- Developmental Aspects of the

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Sommario/riassunto

As an incredibly engaging study guide that can be used either independently or in conjunction with any A&P book, the Anatomy and Physiology Coloring Workbook helps students get the most out of their A&P classes. Dr. Elaine Marieb thoughtfully crafted the text to include a wide range of coloring activities and self-assessments. Students benefit from updated "At the Clinic" questions, a new major tissue figure, and updated terminology. Moreover, the text's "Incredible Journey" visualization exercises take students on an exciting adventure through the human body. Each step they take leads them into an amazing world where they can learn more about anatomical structures and physiological functions.
