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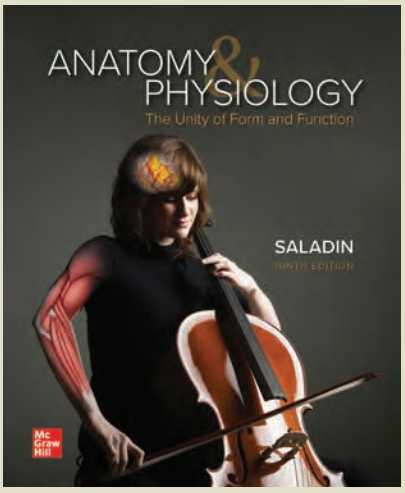

Anatomy & Physiology: The Unity of Form and Function

9th Edition
Kenneth Saladin
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Anatomy & Physiology: The Unity of Form and Function tells a story comprised of many layers, including core science, clinical applications, the history of medicine, and evolution of the human body. Saladin combines this humanistic perspective on anatomy and physiology with vibrant photos and art to convey the beauty and excitement of the subject. To help students manage the tremendous amount of information in this introductory course, the narrative is broken into short segments, each framed by expected learning outcomes and self-testing review questions.

Features

Digital Features
Stop the Drop! McGraw-Hill offers the content and digital tools to help students succeed and improve your drop-fail-withdraw rat . In the Connect® A&P platform, we offer SmartBook® 2. , Anatomy & Physiology Revealed® 4.0, Practice Atlas, LearnSmart Prep, PhILS 4.0, and Connect Virtual Labs.

New! Anatomy & Physiology Revealed now has increased accessibility, rotatable 3D models, modernized animations, and a mobile-friendly user interface to meet students where they are.

New Features
Many topics have been updated, including molecular, vascular, and brain imaging techniques, peroxisome and mitochondrial behavior, the DNA damage response, gene regulation, epigenetics, the tissue interstitium, regenerative medicine, osteoporosis, prosthetic joints, fibromyalgia, sleep physiology, trigeminal neuralgia, pain physiology, endocrine functions of osseous and adipose tissue, diabetes mellitus, cord blood transplants, thrombopoiesis, AIDS, prostate diseases, breast cancer, aging, life expectancy, and assisted reproductive technology.

New! Deeper Insight sidebar essays have been added on the topics of cardiac tamponade, biopsy, stem-cell therapy, regenerative medicine, osteomalacia and rickets, vertebral disc herniation, rotator cuff injur , carpal tunnel syndrome, shin splints, calcaneal tendon rupture, plantar fasciitis, brain connectomics and diffusion tensor imaging, lumbar punctur , stroke, blindness, alcoholic ascites, diverticulosis and diverticulitis, colorectal cancer, and cleft lip and palate.

This edition features new drawings of epidermal histology, flat bone structur , lever mechanics, Parkinson disease, lumbar puncture, hand innervation, Bell palsy, the vagus nerve, olfactory pathways, erythropoiesis, cardiac innervation, regulation of cardiac output, air embolism, colonic histology, lipoprotein structure, cleft lip and palate, and senescent muscle atrophy.

New photos in this edition include digital subtraction angiography, molecular-scale cryo-EM imaging, diabetic gangrene, embryonic stem cells, albinism, jaundice, osteocyte SEM, rickets, muscle fiber histochemistr , diffusion tensor imaging of the brain connectom , shingles, cataracts, glaucoma, forelimb veins used for phlebotomy, kidney stones, gallstones, hepatic cirrhosis, MRI of obesity, and intracytoplasmic sperm injection.

Retained Features
Chapter Outlines provide quick previews of the content.

Deeper Insight boxes highlight areas of interest and career relevance.

Questions in figure legends and Apply What ou Know items prompt students to think more deeply about the implications and applications of what they have learned. This helps students practice higher-order thinking skills throughout the chapter.

Cadaver dissections are paired with carefully drawn illustrations to show intricate human detail.

The end-of-chapter Study Guide provides a Learning Outcomes-based study outline for review, as well as several question sets for self-testing on recall of chapter content, building medical vocabulary, comprehension, and a set of false questions that can be revised into true statements. End-of-chapter questions build on all levels of Bloom's Taxonomy.

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