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Widely praised for its student-friendly style and exceptional artwork and pedagogy, Neuroscience: Exploring the Brain is a leading undergraduate textbook on the biology of the brain and the systems that underlie behavior. This edition provides increased coverage of taste and smell, circadian rhythms, brain development, and developmental disorders and includes new information on molecular mechanisms and functional brain imaging. Path of Discovery boxes, written by leading researchers, highlight major current discoveries. In addition, readers will be able to assess their knowledge of neuroanatomy with the Illustrated Guide to Human Neuroanatomy, which includes a perforated self-testing workbook. This edition's robust ancillary package includes a bound-in student CD-ROM, an Instructor's Resource CD-ROM, a Connection Website, and LiveAdvise: Neuroscience online student tutoring. This textbook gives students a working vocabulary and knowledge of the biology of vision and acquaints them with the major themes in vision research. Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Get the BIG PICTURE of medical physiology?with high yield content that makes learning easier and quicker than ever Packed with easy-to-understand bulleted copy focusing only on the facts you need to know, Medical Physiology: The Big Picture - Medical Course and Step 1 provides text and videos, all in one location to help the reader better comprehend content. This complete, yet concise treatment covers all the major topics in medical physiology. You'll find chapters on neurophysiology, blood, cardiovascular physiology, pulmonary physiology, renal and acid base balance, the gastrointestinal system, the endocrine system, and reproductive physiology?each of which includes video. Here is everything you need to learn and review physiology quickly and efficiently. This invaluable resource features: 450 full-color figures illustrating essential processes 190 board exam-style questions and answers Complementary videos for every chapter (videos are in 4-7 minute segments) Special icons highlighting important clinical information High yield clinical pearls and clinical examples highlighting the relevance and application of physiologic concepts A full practice test organized by body system to allow either comprehensive testing or focused review. Note to Readers: Publisher does not guarantee quality or access to any included digital components if book is purchased through a third-party seller. Specifically designed for future healthcare providers who will diagnose, manage, and prescribe This advanced physiology and pathophysiology text is designed to address the specific learning needs of future nurse practitioners, physician assistants, and other advanced healthcare providers caring for patients across the lifespan. Focusing on practical applications of physiology, it facilitates in-depth understanding of important pathophysiological concepts as they relate to major disorders commonly seen in clinical practice and includes comprehensive pediatric and geriatric considerations. This knowledge is crucial to providing the foundation required to be an informed and confident clinical decision maker. The author team includes experienced clinicians and educators: nurses and nurse practitioners, physician assistants, doctors of pharmacy, physicians, and basic scientists. This collaboration has produced a text that carefully details and richly illustrates the cellular structure and function of each organ system and mechanisms of associated major clinical disorders. Uniquely

interweaving aspects of organ function during healthy states with disease-associated changes, the text emphasizes and extends the basic science foundation to practical clinical applications. The text promotes a deep understanding of cellular function in health and disease that provides the bedrock knowledge required to master pharmacology for prescriptive practice. Equally important, the solid foundation of applied pathophysiological mechanisms offered in this text prepares the student clinician to care for patients with a broad variety of disorders. This resource not only provides a deep dive into pathophysiology, but it also examines why patients often present with particular symptoms, the rationale for ordering specific diagnostic tests and interpretation of results, and common management strategies that proceed from the underlying pathophysiology. Key Features: Designed explicitly to build a foundation for pharmacology and clinical courses that lead to successful clinical practice and prescribing Includes comprehensive lifespan considerations with key insights from specialists in pediatric and geriatric pathophysiology Provides a complete chapter on the basic principles of genetics and genomics with coverage of genetic variations, assessment, and genomics woven throughout the book Integrates thought questions and case studies to promote discussion and synthesis of information Offers a unique Bridge to Clinical Practice in each chapter to translate science to patient care Includes more than 500 images to illustrate complex scientific concepts Summarizes the contents succinctly with handy key points at the end of each chapter Provides access to the fully searchable ebook, including student ancillaries on Springer Publishing Connect™ This edition introduces increased coverage of evolution and the human brain. Carlson's Seventh Edition of Physiology of Behavior continues its tradition as the most comprehensive, current, and teachable book for physiological psychology. This classic incorporates the latest discoveries in the rapidly changing fields of neuroscience and physiological psychology and offers the most comprehensive and integrative coverage of research and theory in contemporary behavioral neuroscience. Thoughtfully organized, it offers scholarly-yet-accessible coverage and effectively emphasizes the dynamic interaction between biology and behavior. Collaboration with a talented artist has provided beautiful, accurate, and informative full-color illustrations that further enhance the appeal to both students and professors alike. Includes a FREE Neuroscience Animations CD-ROM. For anyone interested in physiological psychology or biological psychology. Unlocking the puzzle of how animals behave and how they interact with their environments is impossible without understanding the physiological processes that determine their use of food resources. But long overdue is a user-friendly introduction to the subject that systematically bridges the gap between physiology and ecology. Ecologists--for whom such knowledge can help clarify the consequences of global climate change, the biodiversity crisis, and pollution--often find themselves wading through an unwieldy, technically top-heavy literature. Here, William Karasov and Carlos Martínez del Río present the first accessible and authoritative one-volume overview of the physiological and biochemical principles that shape how animals procure energy and nutrients and free themselves of toxins--and how this relates to broader ecological phenomena. After introducing primary concepts, the authors review the chemical ecology of food, and then discuss how animals digest and process food. Their broad view includes symbiosis and extends even to ecosystem phenomena such as ecological stoichiometry and toxicant biomagnification. They introduce key methods and illustrate principles with wide-ranging vertebrate and invertebrate examples. Uniquely, they also link the physiological mechanisms of resource use with ecological phenomena such as how and why animals choose what they eat and how they participate in the exchange of energy and materials in their biological communities. Thoroughly up-to-date and pointing the way to future research, *Physiological Ecology* is an essential new source for upper-level undergraduate and graduate students--and an ideal synthesis for professionals. The most accessible introduction to the physiological and biochemical principles that shape how animals use resources Unique in linking the physiological mechanisms of resource use with ecological phenomena An essential resource for upper-level undergraduate and graduate students An ideal overview for researchers This thorough, advanced review of the interactions between motoneurons and muscles in vertebrates discusses the significance of nerve-muscle interactions for the normal development and maintenance of the vertebrate neuromuscular system and reviews the consequences of their disruption. This volume presents a unique and comprehensive treatment of plant ecophysiology in the major tropical biotopes, covering the ecophysiology of plants of all major tropical ecosystems -- from tropical rain forests, epiphytic habitats, mangroves and savannas to salinas, Inselbergs, and paramos. Numerous photographs and illustrations are used to highlight the ecophysiological adaptation to these different tropical and the physiognomy of biotopes and characteristic life forms of plants. NEW Davis Digital Version online at DavisPlus lets you access your complete text online. Quickly search for the content you need and add notes, highlights, and bookmarks. Features a hands-on, application-based approach with a wealth of in-book examples, special features, and instrumental art program. Demonstrates the application of exercise physiology principles to the general population, not just athletes. Addresses the emotional and affective aspects of exercise physiology practice (effective interpersonal communication, exercise as an experience) in translating the science into practical knowledge. Offers wealth of learning tools and activities, including... Running vignettes engage the reader and illustrate the relevance of the chapter lessons to practice. "In Your Words" boxes measure your ability to communicate accurately and effectively with clients. "Doing the Math" boxes provide the mathematical knowledge needed to apply concepts from the text and offer hands-on practice. "From Theory to Practice" boxes show an instant, real-world connection to scientific information. Sex Differences clearly show when results or procedures are effected by gender. Practice What You Know activities give instructors the ability to assign lab activities directly from the textbook. Designed to address the challenges instructors face in teaching students with varied backgrounds and learning styles, this text provides features such as chemistry review boxes to provide resources for students, while toolboxes and discovery boxes allow instructors the option to delve into more detail about physiology topics. This book offers physiology teachers a new approach to teaching their subject that will lead to increased student understanding and retention of the most important ideas. By integrating the core concepts of physiology into individual courses and across the entire curriculum, it provides students with tools that will help them learn more easily and fully understand the physiology content they are asked to learn. The authors present examples of how the core concepts can be used to teach individual topics, design learning resources, assess student understanding, and structure a physiology curriculum. Physiology is an integrative science which considers the function of each organ and organ system and their interaction in the maintenance of life. This book is designed to provide the foundation for understanding the normal function of the human body. Each chapter emphasizes the basic concepts that apply to each organ and organ system as well as their integration to maintain homeostasis and proper responses to perturbations such as exercise, illness, and trauma. The organ systems covered include: nervous, muscle, cardiovascular, respiratory, endocrine, reproductive, gastrointestinal, and urinary. Examples from daily life activities and clinical scenarios as well as review questions are presented to illustrate basic science principles, to facilitate integration of the course content and to foster problem solving skills. A&P may be complicated, but learning it doesn't have to be! *Anatomy & Physiology, 11th Edition* uses a clear, easy-to-read approach to tell the story of the human body's structure and function. Color-coded illustrations, case studies, and Clear View of the Human Body transparencies help you see the Big Picture of A&P. To jump-start learning, each unit begins by reviewing what you have already learned and previewing what you are about to learn. Short chapters simplify concepts with bite-size chunks of information. Written by noted educator Kevin Patton, this award-winning text includes A&P Online with 3-D animations and interactive exercises to make learning even easier. Conversational, storytelling writing style breaks down information into brief chapters and chunks of information, making it easier to understand concepts. 1,400 full-color photographs and drawings bring difficult A&P concepts to life and illustrate the most current scientific knowledge. UNIQUE! Clear View of the Human Body transparencies allow you to peel back the layers of the body, with a 22-page, full-color insert showing the male and female human body along several planes. The Big Picture and Cycle of Life sections in each chapter help you comprehend the interrelation of body systems and how the structure and function of these change in relation to age and development. Interesting sidebars include boxed features such as Language of Science and Language of Medicine, Mechanisms of Disease, Health Matters, Diagnostic Study, FYI, Sport and Fitness, and Career Choices. Learning features include outlines, key terms, and study hints at the start of each chapter. Chapter summaries, review questions, and critical thinking questions help you consolidate learning after reading each chapter. Quick Check questions in each chapter reinforce learning by prompting you to review what you have just read. UNIQUE! Comprehensive glossary includes more terms than in similar textbooks, each with an easy pronunciation guide and simplified translation of word parts - essential features for learning to use scientific and medical terminology! NEW! Updated content reflects more accurately the diverse spectrum of humanity. NEW! Updated chapters include Homeostasis, Central Nervous System, Lymphatic System, Endocrine Regulation, Endocrine Glands, and Blood Vessels. NEW! Additional and updated Connect It! articles on the Evolve website, called out in the text, help to illustrate, clarify, and apply concepts. NEW! Seven guided 3-D learning modules are included for *Anatomy & Physiology*. The new edition of this best-selling textbook continues to provide an introduction to all aspects of human physiology. The fifth edition has been extensively revised and updated and richly illustrated with over thirty percent new artwork throughout. Accompanied by a superb ancillary package, this text is ideal for students taking their first course in physiology. Highlights physiological mechanisms enabling marine animals to cope with the challenges of their environment. The field of basic endocrine physiology has advanced considerably since Martin's earlier *Textbook of Endocrine Physiology* was published, and the 95% new material in this volume reflects how the entire concept of the nature and function of hormones has changed. The book takes a biochemical approach to vertebrate and particularly human endocrine physiology, and emphasizes methods of hormone action. Notebooking journal for elementary study of human anatomy, written from a Christian perspective. "Human anatomy and physiology is a

fascinating subject. However, students can be overwhelmed by the complexity, the interrelatedness of concepts from different chapters, and the massive amount of material in the course. Our goal was to create a textbook to guide students on a clearly written and expertly illustrated beginner's path through the human body. An Integrative Approach One of the most daunting challenges that students face in mastering concepts in an anatomy and physiology course is integrating related content from numerous chapters. Understanding a topic like blood pressure, for example, requires knowledge from the chapters on the heart, blood vessels, kidneys, and how these structures are regulated by the nervous and endocrine systems. The usefulness of a human anatomy and physiology text is dependent in part on how successfully it helps students integrate these related concepts. Without this, students are only acquiring what seems like unrelated facts without seeing how they fit into the whole. To adequately explain such complex concepts to beginning students in our own classrooms, we as teachers present multiple topics over the course of many class periods, all the while balancing these detailed explanations with refreshers of content previously covered and intermittent glimpses of the big picture. Doing so ensures that students learn not only the individual pieces, but also how the pieces ultimately fit together. This book represents our best effort to replicate this teaching process. In fact, it is the effective integration of concepts throughout the text that makes this book truly unique from other undergraduate anatomy and physiology texts"-- The repetitive tasks of various forms of manual work can lead to cumulative trauma disorders, increasing staff burn-out rates and the number of sick-days taken by employees. In addition, interest in upper extremity musculoskeletal disorders has grown as the service sector has claimed a larger share of the workforce. These factors introduce the need for an up-to-date text that combines basic biomechanics with practical bioengineering issues. Biomechanics of the Upper Limbs: Mechanics, Modeling, and Musculoskeletal Injuries is an engineering oriented book focusing on upper extremity musculoskeletal disorders, as opposed to the more general introductions to cumulative trauma disorders and medical management related books. It covers musculoskeletal components of the upper extremities, their models, and the measurement and prediction of injury potential. Students and professionals will find it provides an excellent basic grounding in the subject. Topics include: A basic introduction to biomechanical principles Gross structure of the musculoskeletal system, including bone and soft tissue Organization of muscles and muscle anatomy, types of fibers, contractile theories, and muscle receptors Modeling of muscle mechanics Models of the upper limbs Types of musculoskeletal disorders and the scientific evidence for risk factors, as well as epidemiology Instrumentation for motion, pressure, force and nerve conduction measurements, and electromyography Job and worksite analysis Hand tools Office environment seating and computer devices Whether you feel ready or not, this book can prepare you to succeed in an anatomy and physiology course. Science builds upon itself. Knowledge of math opens the door for knowledge of biology, and knowing biology is essential to understanding anatomy and physiology. From scientific terminology, to math skills, to cell biology, this book will help you build the science foundation you need to excel in A&P. Blood Vessels and Lymphatics on Organ Systems provides an introduction to the general and the specific characteristics of blood vessels and lymphatics in organ systems. It offers a structured, multidisciplinary approach to the broad field of vascular science, emphasizing both established and recent concepts. These include vascular networks such as those in the pineal, parathyroids, pancreas, adrenals, adipose tissue, and special senses; and functions of vascular endothelium. The book is organized into two parts. Part One on the general properties of blood vessels and lymphatics deals with th ...

Despite great ferment and activity among historians of science in recent years, the history of physiology after 1850 has received little attention. Gerald Geison makes an important contribution to our knowledge of this neglected area by investigating the achievements of English physiologists at the Cambridge School from 1870 to 1900. He describes individual scientists, their research, the scientific issues affecting their work, and socio-institutional influences on the group. He pays special attention to the personality and contributions of Michael Foster, founding father of the Cambridge School. Foster's specific research interest was the origin of the rhythmic heartbeat, and the author contends that the school itself descended from and developed around this concern. Originally published in 1978. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These paperback editions preserve the original texts of these important books while presenting them in durable paperback editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905. This book outlines for the first time a sound plan for interrelating the physical and engineering sciences and mathematics with biology and medicine. The walls of narrowing specialization that have kept these disciplines apart are broken down. The proposed program points up the need for an administrative structure to aid the flow of concepts, ideas, knowledge, and technology among those concerned, both within and without the university. The kinds of experts needed to bridge the existing gap between the two groups of disciplines are defined. Educational programs are outlined for full-time specialists, research participants, and practitioners in both engineering and medicine. A careful description is given of the stepwise process, including interaction with industry to apply development in the engineering sense to biology and medicine. A detailed example of the application of systems analysis and operations research to the development of a specific medical care program is also included. This book is a distillate of the general principles learned during the exploration of a joint program between Harvard University and the Massachusetts Institute of Technology, which was summarized by the authors in a Report to the National Academy of Engineering. The authors recognize the impossibility of providing on their own the authoritative grasp necessary to provide specific recommendations for the future in the many field comprised by engineering and living systems. Cooperation was obtained of outstanding experts on the two faculties, who prepared sixteen task group reports under the following headings: artificial internal organs; bioengineering curricula; biological control systems; continuing education; diagnostic instrumentation; diagnostic processes; image processing and visualization techniques; medical care microsystems; neurophysiology; organ and cell culture and storage; physiological monitoring; physiological systems analysis; regionalization of health services (macrosystems); sensory aids; skeletal prostheses; and subcellular engineering. The task group reports, included in this book, provide the documentation for the general conclusions of the authors. This book supplements existing medical programs with a new research approach to increase fundamental knowledge, and points the way to better medical care through more efficient application of engineering, technology, and systems development. Get the BIG PICTURE of Medical Physiology -- and focus on what you really need to know to ace the course and board exams! 4-Star Doody's Review! "This excellent, no-frills approach to physiology concepts is designed to help medical students and other health professions students review the basic concepts associated with physiology for the medical profession. The information is concise, accurate and timely." If you don't have unlimited study time Medical Physiology: The Big Picture is exactly what you need! With an emphasis on what you "need to know" versus "what's nice to know," and enhanced with 450 full-color illustrations, it offers a focused, streamlined overview of medical physiology. You'll find a succinct, user-friendly presentation designed to make even the most complex concepts understandable in a short amount of time. With just the right balance of information to give you the edge at exam time, this unique combination text and atlas features: A "Big Picture" perspective on precisely what you must know to ace your course work and board exams Coverage of all the essential areas of Physiology, including General, Neurophysiology, Blood, Cardiovascular, Pulmonary, Renal and Acid Base, Gastrointestinal, and Reproductive 450 labeled and explained full-color illustrations 190 board exam-style questions and answers -- including a complete practice test at the end of the book Special icon highlights important clinical information Glial Physiology and Pathophysiology provides a comprehensive, advanced text on the biology and pathology of glial cells. Coverage includes: the morphology and interrelationships between glial cells and neurones in different parts of the nervous systems the cellular physiology of the different kinds of glial cells the mechanisms of intra- and inter-cellular signalling in glial networks the mechanisms of glial-neuronal communications the role of glial cells in synaptic plasticity, neuronal survival and development of nervous system the cellular and molecular mechanisms of metabolic neuronal-glial interactions the role of glia in nervous system pathology, including pathology of glial cells and associated diseases - for example, multiple sclerosis, Alzheimer's, Alexander disease and Parkinson's Neuroglia oversee the birth and development of neurones, the establishment of interneuronal connections (the 'connectome'), the maintenance and removal of these inter-neuronal connections, writing of the nervous system components, adult neurogenesis, the energetics of nervous tissue, metabolism of neurotransmitters, regulation of ion composition of the interstitial space and many, many more homeostatic functions. This book primes the reader towards the notion that nervous tissue is not divided into more important and less important cells. The nervous tissue functions because of the coherent and concerted action of many different cell types, each contributing to an ultimate output. This reaches its zenith in humans, with the creation of thoughts, underlying acquisition of knowledge, its analysis and synthesis, and contemplating the Universe and our place in it. An up-to-date and fully referenced text on the most numerous cells in the human brain Detailed coverage of the morphology and interrelationships between glial cells and neurones in different parts of the nervous system Describes the role of glial cells in neuropathology Focus boxes highlight key points and summarise important facts Companion website with downloadable figures and slides This third edition of Nerve and Muscle Excitation is intended as a text or general reference for students or researchers in neuroscience, biology, biomedical engineering, biophysics, physiology, medicine, neurology, neuroengineering or ancillary fields. It takes the approach of relating observed behaviours of excitable nerve and muscle membranes to the theoretical models currently in use by research workers in each area. Some familiarity, although not extensive knowledge, is assumed with calculus, electrical theory and chemistry; models in the text are derived from basic principles. Temperature impacts the behaviour, physiology and ecology of all

organisms more than any other abiotic variable. In this book, the author draws on theory from the more general discipline of evolutionary ecology to foster a fresh approach toward a theory of thermal adaptation. The art and illustration program make explanations and concepts easier to comprehend. * "Clinical Application" sections demonstrate the clinical or professional significance of the discussion. * Coverage of scientific research and breakthroughs in understanding the human body keep the book on the cutting edge. The complexity and copious number of details that must be mastered in order to fully understand renal physiology makes this one of the most daunting and intimidating topics covered in the first year of medical school. Although this is often only a 2-4 week module during the general physiology course, it is essential that students understand the foundations of renal physiology, and general physiology texts are often not detailed enough to provide students with what they need to master this difficult subject. This first edition, and third volume in the Integrated Physiology Series, offers students a clear, clinically oriented overview of renal physiology. The lecture-style format, conversational tone, and final Integration chapter offset the difficult and intimidating nature of the subject. Chapter outlines, learning objectives, and end-of-chapter summaries highlight key concepts for easier assimilation. Other pedagogical features include clinical cases, Thought Questions, Putting It Together sections, Editor's Integration boxes, review Q&A, and online animations -- all designed specifically to reinforce clinical relevance and to challenge the student in real-world problem-solving. Physiology as such a vast subject with unlimited scope and which can be studied in different ways. There was a long left need, among students and teachers for a text book with recent information and written according to national syllabus. Efforts have been made to collect recent informations from several standard works and journals. Contents: Nutrition, Circulation, Respiration, Physiology of Aviation High Altitude, Space and Deep-sea Diving, Thermo- Regulation, Osmoregulation, Excretion, Muscles, Nervous System, Reproduction, Sense Organs, Chemical Messengers, Physiology of Endocrine Glands, Chronobiology. This thoroughly revised, updated Fifth Edition textbook provides excellent coverage of exercise physiology concepts integrated with relevant scientific information. A basic foundation to understand nutrition, energy transfer and exercise training, it unites the topics of physical conditioning, sports nutrition, body composition, weight control and more. Chapters contain bulleted Objectives and Summaries that promote mastery of the material. A "Focus on Research" section features synopses of published studies, and interviews with nine contemporary scientists inspire students to realize their professional potential. "Integrative Questions" pose open-ended questions for considerable reflection on complex concepts. Many new additions enhance this must-have text. Included CD-ROM offers an electronic coloring book with 80 detailed anatomy illustrations that can be colored online or printed out to color and study offline. This ISBN is now out of print. A new edition with e-book is available under ISBN 9780702044762. The third edition of this popular textbook gives a clear, easy-to-read account of anatomy and physiology at all stages of pregnancy and childbirth. Each chapter covers normal physiology, changes to the physiology in pregnancy, and application to practice. The physiology of childbearing is placed within a total biological context, drawing on evolution, ecology, biochemistry and cell biology. Follows childbearing from preconception to postnatal care and the neonate Logical progression through the body systems Highly illustrated, with simple diagrams Emphasises links between knowledge and practice to promote clinical skills Main points summarised to aid study. Website: 10 multiple-choice questions per chapter for self-testing Downloadable illustrations, with and without labels Fully searchable.

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