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Medical Terminology (5th Edition) Undergraduate Level Prentice Hall

This book offers a radical perspective uniting science with spiritual experience and non-ordinary views of reality. It provides a comprehensive view through physics, biology, genetics, psychology and human development. The result is a connected web that shows the patterns connecting consciousness to material existence. It reveals the non-ordinary reality of intuition, psychic experience and alternative medicine as not just side-effects created by human minds, but as the ground base of reality that underpins and defines material existence. Everything that universe consists of rests in patterns of relationship. All that we are lives in and influences those patterns. This is the source of our potential and possibility.

Benjamin Cummings

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Biological Science Pearson Higher Ed

An encyclopedia designed especially to meet the needs of elementary, junior high, and senior high school students.

Biological Science Harper Collins

Explore Biology for the AP ® Course, a textbook program designed expressly for AP ® teachers and students by veteran AP ® educators. Biology for the AP ® Course provides content organized into modules aligned to the CED, AP ® skill-building instruction and practice, stunning visuals, and much more.

Biological Science Penguin

Many of the scientific breakthroughs of the twentieth century were first reported in the journal Nature. A Century of Nature brings together in one volume Nature's greatest hits—reproductions of seminal contributions that changed science and the world, accompanied by essays written by leading scientists (including four Nobel laureates) that provide historical context for each article, explain its insights in graceful, accessible prose, and celebrate the serendipity of discovery and the rewards of searching for needles in haystacks.

Biology for the AP® Course Bardolf

"Glia are cells that serve to nourish and support the neuronal cells that relay electrical signals through the nervous system. They also play critical roles in development and synapse formation, helping to establish neural circuits. This book examines our understanding of the basic biology of glia and their roles in diseases such as Alzheimer's and cancer"--Provided by publisher.

Considering Animals Pearson

The extraordinary, groundbreaking novel from Laurie Halse Anderson, with more than 2.5 million copies sold! The first ten lies they tell you in high school. "Speak up for yourself--we want to know what you have to say." From the first moment of her freshman year at Merryweather High, Melinda knows this is a big fat lie, part of the nonsense of high school. She is friendless, outcast, because she busted an end-of-summer party by calling the cops, so now nobody will talk to her, let alone listen to her. As time passes, she becomes increasingly isolated and practically stops talking altogether. Only her art class offers any solace, and it is through her work on an art project that she is finally able to face what really happened at that terrible party: she was raped by an upperclassman, a guy who still attends Merryweather and is still a threat to her. Her healing process has just begun when she has another violent encounter with him. But this time Melinda fights back, refuses to be silent, and thereby achieves a measure of vindication. In Laurie Halse Anderson's powerful novel, an utterly believable heroine with a bitterly ironic voice delivers a blow to the hypocritical world of high school. She speaks for many a disenfranchised teenager while demonstrating the importance of speaking up for oneself. Speak was a 1999 National Book Award Finalist for Young People's Literature.

Biology New York Review of Books

Infinite in All Directions is a popularized science at its best. In Dyson's view, science and religion are two windows through which we can look out at the world around us. The book is a revised version of a series of the Gifford Lectures under the title "In Praise of Diversity" given at Aberdeen, Scotland. They allowed Dyson the license to express

everything in the universe, which he divided into two parts in polished prose: focusing on the diversity of the natural world as the first, and the diversity of human reactions as the second half. Chapter 1 is a brief explanation of Dyson's attitudes toward religion and science. Chapter 2 is a one–hour tour of the universe that emphasizes the diversity of viewpoints from which the universe can be encountered as well as the diversity of objects which it contains. Chapter 3 is concerned with the history of science and describes two contrasting styles in science: one welcoming diversity and the other deploring it. He uses the cities of Manchester and Athens as symbols of these two ways of approaching science. Chapter 4, concerned with the origin of life, describes the ideas of six illustrious scientists who have struggled to understand the nature of life from various points of view. Chapter 5 continues the discussion of the nature and evolution of life. The question of why life characteristically tends toward extremes of diversity remains central in all attempts to understand life's place in the universe. Chapter 6 is an exercise in eschatology, trying to define possible futures for life and for the universe, from here to infinity. In this chapter, Dyson crosses the border between science and science fiction and he frames his speculations in a slightly theological context.

Practicing Biology Benjamin Cummings

Essential Cell Biology provides a readily accessible introduction to the central concepts of cell biology, and its lively, clear writing and exceptional illustrations make it the ideal textbook for a first course in both cell and molecular biology. The text and figures are easy-to-follow, accurate, clear, and engaging for the introductory student. Molecular detail has been kept to a minimum in order to provide the reader with a cohesive conceptual framework for the basic science that underlies our current understanding of all of biology, including the biomedical sciences. The Fourth Edition has been thoroughly revised, and covers the latest developments in this fast-moving field, yet retains the academic level and length of the previous edition. The book is accompanied by a rich package of online student and instructor resources, including over 130 narrated movies, an expanded and updated Question Bank. Essential Cell Biology, Fourth Edition is additionally supported by the Garland Science Learning System. This homework platform is designed to evaluate and improve student performance and allows instructors to select assignments on specific topics and review the performance of the entire class, as well as individual students, via the instructor dashboard. Students receive immediate feedback on their mastery of the topics, and will be better prepared for lectures and classroom discussions. The user-friendly system provides a convenient way to engage students while assessing progress. Performance data can be used to tailor classroom discussion, activities, and lectures to address students' needs precisely and efficiently. For more information and sample material, visit http://garlandscience.rocketmix.com/.

Fundamentals of Anatomy & Physiology Benjamin-Cummings Publishing Company

Nitric oxide (NO) is a gas that transmits signals in an organism. Signal transmission by a gas that is produced by one cell and which penetrates through membranes and regulates the function of another cell represents an entirely new principle for signaling in biological systems. NO is a signal molecule of key importance for the cardiovascular system acting as a regulator of blood pressure and as a gatekeeper of blood flow to different organs. NO also exerts a series of other functions, such as acting a signal molecule in the nervous system and as a weapon against infections. NO is present in most living creatures and made by many different types of cells. NO research has led to new treatments for treating heart as well as lung diseases, shock, and impotence. Scientists are currently testing whether NO can be used to stop the growth of cancerous tumors, since the gas can induce programmed cell death, apoptosis. This book is the first comprehensive text on nitric oxide to cover all aspects--basic biology, chemistry, pathobiology, effects on various disease states, and therapeutic implications. Edited by Nobel Laureate Louis J. Ignarro, editor of the Academic Press journal, Nitric Oxide Authored by world experts on nitric oxide Includes an overview of basic principles of biology and chemical biology Covers principles of pathobiology, including the nervous system, cardiovascular function, pulmonary function, and immune defense

Biological Science Ballantine Books

David Krogh's Biology: A Guide to the Natural World leads readers on a memorable journey through the world of biology, using relevant examples, clearly-developed illustrations, and helpful insights that will resonate with you. The Technology Update features margin callouts in the text, directing you to a significantly more robust MasteringBiology program. Widely recognized as a book that students enjoy reading, David Krogh uses discussions about social concerns and health applications, along with streamlined EOC material, to help engage you with the chapter.

Infinite in All Directions Ashgate Publishing, Ltd.

Considering Animals draws on the expertise of scholars trained in the biological sciences, humanities, and social sciences to investigate the complex and contradictory relationships humans have with nonhuman animals. Taking their cue from the specific "animal moments" that punctuate these interactions, the essays engage with contemporary issues and debates central to human-animal studies: the representation of animals, the practical and ethical issues inseparable from human interactions with other species, and, perhaps most challengingly, the compelling evidence that animals are themselves considering beings. Case studies focus on issues such as animal emotion and human "sentimentality"; the representation of animals in contemporary art and in recent films such as March of the Penguins, Happy Feet, and Grizzly Man; animals' experiences in catastrophic events such as Hurricane Katrina and the SARS outbreak; and the danger of overvaluing the role humans play in the earth's ecosystems. From Marc Bekoff's moving preface through to the last essay, Considering Animals foregrounds the frequent, sometimes uncanny, exchanges with other species that disturb our self-contained existences and bring into focus our troubled relationships with them. Written in an accessible and jargon-free style, this collection demonstrates that, in the face of species extinction and environmental destruction, the roles and fates of animals are too important to be left to any one academic discipline.

Nitric Oxide Cambridge University Press

How did life on earth originate? Did replication or metabolism come first in the history of life? In this book, Freeman Dyson examines these questions and discusses the two main theories that try to explain how naturally occurring chemicals could organize themselves into living creatures. The majority view is that life began with replicating molecules, the precursors of modern genes. The minority belief is that random populations of molecules evolved metabolic activities before exact replication existed. Dyson analyzes both of these theories with reference to recent important discoveries by geologists and chemists. His main aim is to stimulate experiments that could help to decide which theory is correct. This second edition covers the enormous advances that have been made in biology and geology in the past and the impact they have had on our ideas about how life began. It is a clearly-written, fascinating book that will appeal to anyone interested in the origins of life.

Biological Science, Second

Canadian Edition, Loose Leaf Version Berkley
Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand.We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.
Biological Science Benjamin-Cummings Publishing Company
In the final years of the twentieth century, emigres from mechanical and electrical engineering and computer science resolved that if the aim of biology was to understand life, then making life would yield better theories than experimentation. Sophia Roosth, a cultural anthropologist, takes us into the world of these self-named synthetic biologists who, she shows, advocate not experiment but manufacture, not reduction but construction, not analysis but synthesis. Roosth reveals how synthetic biologists make new living things in order to understand better how life works. What we see through her careful questioning is that the biological features, theories, and limits they fasten upon are determined circularly by their own experimental tactics. This is a story of broad interest, because the active, interested making of the synthetic biologists is endemic to the sciences of our time."
Evolutionary Analysis Garland Science
"Visionary physicist Geoffrey West is a pioneer in the field of complexity science, the science of emergent systems and networks... Fascinated by issues of aging and mortality, West applied the rigor of a physicist to the biological question of why we live as long as we do and no longer. The result was astonishing, and changed science, creating a new understanding of energy use and metabolism: West found that despite the riotous diversity in the sizes of mammals, they are all, to a large degree, scaled versions of each other... West's work has been gaming changing for biologists, but then he made the even bolder move of exploring his work's applicability...and applied...[it] to the business and social world."--
The Dysautonomia Project Wiley Global Education
From Galileo to today’s amateur astronomers, scientists have been rebels, writes Freeman Dyson. Like artists and poets, they are free spirits who resist the restrictions their cultures impose on them. In their pursuit of nature’s truths, they are guided as much by imagination as by reason, and their greatest theories have the uniqueness and beauty of great works of art.Dyson argues that the best way to understand science is by understanding those who practice it. He tells stories of scientists at work, ranging from Isaac Newton’s absorption in physics, alchemy, theology, and politics, to Ernest Rutherford’s discovery of the structure of the atom, to Albert Einstein’s stubborn hostility to the idea of black holes. His descriptions of brilliant physicists like Edward Teller and Richard Feynman are enlivened by his own reminiscences of them. He looks with a skeptical eye at fashionable scientific fads and fantasies, and speculates on the future of climate prediction, genetic engineering, the colonization of space, and the possibility that paranormal phenomena may exist yet not be scientifically verifiable. Dyson also looks beyond particular scientific questions to reflect on broader philosophical issues, such as the limits of reductionism, the morality of strategic bombing and nuclear weapons, the preservation of the environment, and the relationship between science and religion. These essays, by a distinguished physicist who is also a prolific writer, offer informed insights into the history of science and fresh perspectives on contentious current debates about science, ethics, and faith.
Nature Remade Farrar, Straus and Giroux (BYR)
Supports and motivates you as you learn to think like a biologist. Building upon Scott Freeman's unique narrative style that incorporates the Socratic approach and draws you into thinking like a biologist, the Fourth Edition has been carefully refined to motivate and support a broader range of learners as they are introduced to new concepts and encouraged to develop and practice new skills. Each page of the book is designed in the spirit of active learning and instructional reinforcement, equipping novice learners with tools that help them advance in the course--from recognizing essential information in highlighted sections to demonstrating and applying their understanding of concepts in practice exercises that gradually build in difficulty. New to Freeman's MasteringBiology® online tutorial and assessment system are ten classic experiment tutorials and automatically-graded assignment options that are adapted directly from content and exercises in the book. Note: Science Volume 2 4e ISBN 03216053506 textbook contains Chapters 1, 24-35, 50-55 from the Freeman, Biological Science 4e Student Edition (main edition) ISBN 0321597966. Volume 2 focuses on the chapters about Evolution, Diversity, & Ecology. Package Components: Biological Science, Volume 2, Fourth Edition MasteringBiology with Pearson eText Student Access Kit
The Civil War Diary of Freeman Colby (Hardcover) Macmillan Higher Education
For two-semester A&P. Fundamentals of Anatomy & Physiology helps you succeed in the challenging A&P course with an easy-to-understand narrative, precise visuals, and steadfast accuracy. Every chapter of the Tenth Edition includes one- and two-page Spotlight Figures that seamlessly integrate text and visuals to guide you through complex topics and processes. These highly visual presentations incorporate, for select topics, the "visual approach" that the same author team created in their Visual Anatomy & Physiology book. New Clinical Cases open every chapter and get you thinking about the chapter content in the context of a personal compelling patient story. The Tenth Edition integrates book content with MasteringA&P®,

through expanded Coaching Activities, which personalize learning and coach you toward understanding and mastery of tough A&P topics. This program presents a better learning experience. It provides: Personalized Learning with MasteringA&P: Engage with A&P through new Spotlight Figure Coaching Activities, and new Book-specific Clinical Case Activities, and a wide range of other question and activity types--all that are automatically graded. Text-art Integration: The popular one- and two-page Spotlight Figures and other figure types seamlessly integrate text and visuals to guide you through complex topics and processes. You study the Spotlight Figures in the book, and then your instructor can assign them in MasteringA&P. Story-based Clinical Content: Motivate yourself for your future careers with the new Clinical Cases. Time-saving Navigation and Study Tools: Better navigate difficult A&P topics through both the book and MasteringA&P. Note: You are purchasing a standalone product; MasteringA&P does not come packaged with this content. If you would like to purchase both the physical text andÂ¿ MasteringA&P search for ISBN-10: 0321908597/ISBN-13: 9780321908599. That package includes ISBN-10: 0321909070/ISBN-13: 9780321909077 and ISBN-10: 0321940717/ISBN-13: 9780321940711. MasteringA&P is not a self-paced technology and should only be purchased when required by an instructor.

Origins of Life Macmillan

This volume examines the chemistry of natural and synthetic dyes produced for non-textile markets, where much new basic research in color chemistry is now taking place. The first group of chapters covers the design, synthesis, properties and application technology pertaining to dyes for digital printing and photography. The reader will be pleased with the breadth and depth of information presented in each case. Of particular interest is the discussion of strategies for the design of dyes in these categories, with emphasis on enhancing technical properties. In view of certain new developments, the ink-jet chapter includes results from studies pertaining to dyes for textiles. The three chapters comprising Section II of this volume cover the broad subject of dyes for food, drug and cosmetic applications and then provide an in-depth look at dyes for biomedical applications and molecular recognition. The chapter on dyes for molecular recognition places emphasis on applications in the biological sciences, including sensory materials and artificial receptors. While the former two topics have been covered elsewhere in the past, the present chapters are unequalled in scope. Section III provides an in-depth review of the design of laser dyes and dye-based functional materials. In the first of the two chapters, the major principles of laser operation are summarized. This is followed by a discussion of spectroscopic properties, such as activation and deactivation of absorbed light by laser dyes. Approaches to the development of new laser dyes are presented. The second chapter pertains to the synthesis of dicyanopyrazine-based multifunctional dyes. The visible and fluorescence spectra of these dyes in solution and the solid state are correlated with their three-dimensional molecular structures. Molecular stacking behavior and solid state properties of these "multifunctional" dye materials are presented. The final group of chapters pertains to natural dyes and dyes for natural substrates. In recent years, the impression among certain consumers that "natural" is better/safer has generated much interest in the use of natural dyes rather than synthetics. This has led to a few short discussion papers in which the environmental advantages to using natural dyes have been questioned. The initial chapter in this group provides both a historical look at natural dyes and a comprehensive compilation of natural dye structures and their sources. Though natural dyes are of interest as colorants for textiles, selected ones are used primarily in food and cosmetics. Chapter ten provides an update on the author's previous reviews of structure-color-relationships among precursors employed in the coloration of hair. Chemical constitutions characterizing hair dye structures are presented, along with a summary of available precursors and their environmental properties. Similarly, the chapter on leather dyes covers constitutions and nomenclature, in addition to providing interesting perspectives on the origin and use of leather, the dyeing of leather, and key environmental issues. This volume is concluded with another look at colors in nature. In this case, rather than revisiting colors in plant life, an interesting chapter dealing with color in the absence of colorants is presented. Chapter twelve covers basic concepts of color science and illustrates how 3-D assemblies leading to a plethora of colors are handled in nature. It is our hope that this atypical "color chemistry" chapter will invoke ideas that lead to the design of useful colorants. The chapters presented in this volume demonstrate that color chemistry still has much to offer individuals with inquiring minds who are searching for a career path. This work highlights the creativity of today's color chemists and the wide variety of interesting non-textile areas from which a career can be launched.