

Physics In Minutes Giles Sparrow

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University Physics with Modern Physics, eBook, Global Edition Quercus

This compelling story of exploration charts and celebrates humankind in space, from Sputnik's launch in 1957 through the Apollo Moon landings and the International Space Station to future missions to Mars and beyond. Spaceflight chronicles how, in the six decades that followed Sputnik, the world was revolutionized by space travel and exploration. The opening up of Earth's orbit to satellites led to a revolution in communications, monitoring of the environment, and materials science. For the human imagination, the impact has been even greater - the voyages of robotic space probes have transformed our view of the Solar System, while Earth-orbiting satellites and missions to the Moon have forever changed our view of ourselves. This book is a celebration of human ingenuity and imagination. From the work of pioneers like Wernher von Braun, Yuri Gagarin, and Neil Armstrong to the triumphs and tragedies that followed, it reveals the people, science, and technology that have propelled us into the Space Age.

The Cosmic Gallery Hachette UK

This concise yet comprehensive guide to the history of art is the perfect handbook for all would-be art buffs. Art historian Susie Hodge takes you on a whistle-stop international tour of all the major philosophies, movements, phases, developments, artists, and themes, from prehistoric art to Hyperrealism. Other concepts covered include Greek classicism, Gothic art, the Renaissance, Baroque, Romanticism, Realism, Impressionism, Cubism, surrealism, Pop art, and Minimalism.

Instant Physics Greenfinch

Since the dawn of humankind, people have looked upward to the heavens and tried to understand them. This encyclopedia takes you on an expedition through time and space to discover our place in the universe. We invite you to take a journey through the wonders of the universe. Explore the cosmos, from planets to black holes, the Big Bang, and everything in-between! Get ready to discover the story of the universe one page at a time! This educational book for young adults will launch you on a wild trip through the cosmos and the incredible discoveries throughout history. Filled to the brim with beautifully illustrated flowcharts, graphics, and jargon-free language, The Astronomy Book breaks down hard-to-grasp concepts to guide you in understanding almost 100 big astronomical ideas. Big Ideas How do we measure the universe? Where is the event horizon? What is dark matter? Now you can find out all the answers to these questions and so much more in this inquisitive book about our universe! Using incredibly clever visual learning devices like step-by-step diagrams, you'll learn more about captivating topics from the Copernican Revolution. Dive into the mind-boggling theories of recent science in a user-friendly format that makes the information easy to follow. Explore the biographies, theories, and discoveries of key astronomers through the ages such as Ptolemy, Galileo, Newton, Hubble, and Hawking. To infinity and beyond! Journey through space and time with us: • From Myth to Science 600 BCE – 1550 CE • The Telescope Revolution 1550 – 1750 • Uranus to Neptune 1750 – 1850 • The Rise of Astrophysics 1850 – 1915 • Atom, Stars, And Galaxies 1915 – 1950 • New Windows on The Universe 1950 – 1917 • The Triumph of Technology 1975 – Present The Series Simply Explained With over 7 million copies sold worldwide to date, The Astronomy Book is part of the award-winning Big Ideas Simply Explained series from DK Books. It uses innovative graphics along with engaging writing to make complex subjects easier to understand. Shortlisted: A Young Adult Library Services Association Outstanding Books for the College Bound and Lifelong Learners list selection A Mom's Choice Awards® Honoring Excellence Gold Seal of Approval for Young Adult Books A Parents' Choice Gold Award winner

World History in Minutes Hachette UK

Physics in Minutes covers everything you need to know about physics, condensed into 200 key topics. Each idea is explained in clear, accessible language, building from the basics, such as mechanics, waves, and particles, to more complex topics, including neutrinos, string theory, and dark matter. Following the latest scientific research proving that the brain best absorbs information visually, each description is accompanied by an illustration to aid quick comprehension and easy recollection. This convenient and compact reference book is ideal for anyone interested in how our world works. Chapters include: Newton's Laws of Motion, Schrodinger's cat, Magnetism, Superconductivity, Fission and fusion, Higgs Boson, Entropy, Dark matter.

Quantum Steampunk Psychology Press

Quantum physics is the most fundamental -- but also the most baffling -- branch of science. Allowing for dead-and-alive cats, teleportation, antimatter, and parallel universes, as well as underpinning all of our digital technology, it's as important as it is mind-bending. This clear and compact book demystifies the strange and beautiful quantum world, and hence the nature of reality itself. Contents include: Schrodinger's cat, inside the atom, the particle zoo, the Higgs boson, Heisenberg's uncertainty principle, God playing dice, relativity, the Big Bang, dark energy and matter, black holes, the fate of the Universe, the Theory of Everything, quantum gravity, string theory, the multiverse, instant communication, quantum computing and cryptography, superconductivity, quantum biology, quantum consciousness, and much more. Written as a series of mini essays with 200 simple diagrams to help understanding, there can be no easier guide to this notoriously confusing subject. At last it's possible for non-specialists to understand quantum theory and its central role in the birth of the universe and the very existence of life.

Big Ideas in Brief Princeton University Press

The complete illustrated science encyclopedia covering the history, key discoveries, inventions and people Science- The Definitive Visual Guide reveals the story of scientific progress from the invention of the wheel to 21st-century climate solutions, including everything from ancient Greek geometry and quantum physics to the worldwide web. Explore every key moment

of scientific discovery with this remarkable reference book and find out how the concepts, inventions and the individuals behind them have changed our world. With stunning artworks and authoritative information Science- The Definitive Visual Guide, now in compact format makes even complex scientific subjects easily comprehensible.

Solar System in Minutes Hachette UK

The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed. For courses in calculus-based physics. Since its first edition, University Physics has been revered for its emphasis on fundamental principles and how to apply them. This text is known for its clear and thorough narrative, as well as its uniquely broad, deep, and thoughtful sets of worked examples that provide students with key tools for developing both conceptual understanding and problem-solving skills. The 14th Edition improves the defining features of the text while adding new features influenced by education research to teach the skills needed by today's students.

Constellations Librorium Editions

Genetics in Minutes is your compact and accessible guide to the central concepts of the science of genetics, revealing how our genes shape our bodies and our lives, and how in turn we are beginning to shape them. Covering the basics of DNA, inheritance and evolution in animals, plants and humans alike -from the origins and development of life to the Human Genome and designer babies - this is the fastest, fullest path to understanding genetics. Contents include Genes, DNA, Natural selection, Darwinism, Stem cell and gene therapies, Evo-devo, Epigenetics, Cloning, Genetic engineering and Artificial life, as well as biology basics such as the Processes of life, Cells, Sex, Classification and Ecology.

Understanding the Universe Quercus

The Top Ten Bestseller Black holes. DNA. The Large Hadron Collider. Ever had that sneaking feeling that you are missing out on some truly spectacular science? You do? Well, fear not, for help is at hand. Ben Miller was working on his Physics PhD at Cambridge when he accidentally became a comedian. But first love runs deep, and he has returned to his roots to share with you all his favourite bits of science. This is the stuff you really need to know, not only because it matters but because it will quite simply amaze and delight you. 'Let me show you another, perhaps less familiar side of Science; her beauty, her seductiveness and her passion. And let's do it quickly, while Maths isn't looking' - Ben Miller 'This book makes climate change actually seem interesting. Not just important - it's obviously important - but interesting. As a result I bought lots of other books about climate change, something I now regret' - David Mitchell Ben Miller is, like you, a mutant ape living through an Ice Age on a ball of molten iron, orbiting a supermassive black hole. He is also an actor, comedian and approximately one half of Armstrong & Miller. He's presented a BBC Horizon documentary on temperature and a Radio 4 series about the history of particle physics, and has written a science column for The Times. He is slowly coming to terms with the idea that he may never be an astronaut.

Physics in Minutes Quercus

Philosophy in Minutes distils 200 of the most important philosophical ideas into easily digestible, bite-sized sections. The core information for every topic - including debates such as the role of philosophy in science and religion, key thinkers from Aristotle to Marx, and introductions to morality and ethics - is explained in straightforward language, using illustrations to make the concepts easy to understand and remember. Whether you are perplexed by existentialism or pondering the notion of free will, this accessible small-format book will help any reader to quickly grasp the basics of this highly nuanced subject. Chapters include: Truth and logic, Marxism, Communism and Socialism, Ontology, Philosophy and literature, Existence of God, Feminist theory, Consciousness, The future of philosophy.

The Hyperlinked Society Cassell

"The science-fiction genre known as steampunk juxtaposes futuristic technologies with Victorian settings. This fantasy is becoming reality at the intersection of two scientific fields-twenty-first-century quantum physics and nineteenth-century thermodynamics, or the study of energy-in a discipline known as quantum steampunk"--

Foundations of Physics for Chemists Quercus

For anyone who has ever looked up at the night sky and wanted to explore more, this stunning Constellations book will be sure to turn any reader into an avid and enthralled stargazer. Focusing on the 88 popular and distinctive patterns of the stars and unearthing the appealing and intriguing stories behind each one, including their origins and mythology, you will soon be spotting the magnificent objects in the sky and enjoying their wonder night after night. Featuring 300 of the best astronomical images ever captured alongside comprehensive yet easy-to-follow information about the stars and other celestial phenomena, the state-of-the-art star maps show the stars visible from both hemispheres and the detailed snippets of text will bring you up to scratch with all you need to know about constellations from ancient times right up to today.

The Stargazer's Handbook Quercus

Against the backdrop of unprecedented concern for the future of health

care, 'The Cambridge History of Medicine' surveys the rise of medicine in the West from classical times to the present. Covering both the social and scientific history of medicine, this volume traces the chronology of key developments and events.

The World According to Physics Penguin

The heavens are alive with breathtaking beauty: from the incandescent surface of the Sun to the shimmering tail of a comet; the birth of planets to the death of stars; the dancing shadows of Jupiter's moons to the silhouettes of eclipses. The Cosmic Gallery contemplates the entire cosmos as a grand celestial art exhibit. In six thematically organized chapters, Giles Sparrow presents an array of stunning images, ranging from easily seen phenomena to the most distant and intricate galaxies, providing the reader with an exciting and beautiful new perspective on the cosmos.

Radioecological Techniques Greenfinch

Simple and accessible, *Science in Seconds* is a comprehensive, entertaining introduction to 200 key scientific ideas. Each concept is clearly realized with a helpful visual and a concise explanation. The concepts included span all of the key scientific disciplines, including Physics, Chemistry, Biology, Ecology, Biotechnology, Anatomy and Physiology, Medicine, Earth Science, Energy Generation, Astronomy, Spaceflight and Information Technology. Utilizing vivid, educational illustrations--inspired by scientific research suggesting that the brain best absorbs information visually--these compact and portable reference guides are ideal study buddies or holiday gifts, and enlightening reading for all. Hazel Muir studied astrophysics at Edinburgh University before becoming a staff editor and writer at *New Scientist*. Currently a freelance writer, she still regularly contributes to *BBC Sky At Night* magazine, and has also written for *Wired UK*. She has won international awards for her articles from the American Institute of Physics and the Acoustical Society of America. From the Trade Paperback edition.

The Insect Man JHU Press

"Links" are among the most basic---and most unexamined---features of online life. Bringing together a prominent array of thinkers from industry and the academy, *The Hyperlinked Society* addresses a provocative series of questions about the ways in which hyperlinks organize behavior online. How do media producers' considerations of links change the way they approach their work, and how do these considerations in turn affect the ways that audiences consume news and entertainment? What role do economic and political considerations play in information producers' creation of links? How do links shape the size and scope of the public sphere in the digital age? Are hyperlinks "bridging" mechanisms that encourage people to see beyond their personal beliefs to a broader and more diverse world? Or do they simply reinforce existing bonds by encouraging people to ignore social and political perspectives that conflict with their existing interests and beliefs? This pathbreaking collection of essays will be valuable to anyone interested in the now taken for granted connections that structure communication, commerce, and civic discourse in the world of digital media. "This collection provides a broad and deep examination of the social, political, and economic implications of the evolving, web-based media environment. *The Hyperlinked Society* will be a very useful contribution to the scholarly debate about the role of the internet in modern society, and especially about the interaction between the internet and other media systems in modern society." ---Charles Steinfield, Professor and Chairperson, Department of Telecommunication, Information Studies, and Media, Michigan State University Joseph Turow is Robert Lewis Shayon Professor at the Annenberg School for Communication, University of Pennsylvania. He was named a Distinguished Scholar by the National Communication Association and a Fellow of the International Communication Association in 2010. He has authored eight books, edited five, and written more than 100 articles on mass media industries. His books include *Niche Envy: Marketing Discrimination in the Digital Age* and *Breaking up America: Advertisers and the New Media World*. Lokman Tsui is a doctoral candidate at the Annenberg School for Communication, University of Pennsylvania. His research interests center on new media and global communication. Cover image: This graph from Lada Adamic's chapter depicts the link structure of political blogs in the United States. The shapes reflect the blogs, and the colors of the shapes reflect political orientation---red for conservative blogs, blue for liberal ones. The size of each blog reflects the number of blogs that link to it. *digitalculturebooks* is an imprint of the University of Michigan Press and the Scholarly Publishing Office of the University of Michigan Library dedicated to publishing innovative and accessible work exploring new media and their impact on society, culture, and scholarly communication. Visit the website at www.digitalculture.org.

The Routledge History of Literature in English Quercus

Quantum physicist, New York Times bestselling author, and BBC host Jim Al-Khalili offers a fascinating and illuminating look at what physics reveals about the world. Shining a light on the most profound insights revealed by modern physics, Jim Al-Khalili invites us all to understand what this crucially important science tells us about the universe and the nature of reality itself. Al-Khalili begins by introducing the fundamental concepts of space, time, energy, and matter, and then describes the three pillars of modern physics--quantum theory, relativity, and thermodynamics--showing how all three must come together if we are ever to have a full understanding of reality. Using wonderful examples and thought-provoking analogies, Al-Khalili illuminates the physics of the extreme cosmic and quantum scales, the speculative frontiers of the field, and the physics that underpins our

everyday experiences and technologies, bringing the reader up to speed with the biggest ideas in physics in just a few sittings. Physics is revealed as an intrepid human quest for ever more foundational principles that accurately explain the natural world we see around us, an undertaking guided by core values such as honesty and doubt. The knowledge discovered by physics both empowers and humbles us, and still, physics continues to delve valiantly into the unknown. Making even the most enigmatic scientific ideas accessible and captivating, this deeply insightful book illuminates why physics matters to everyone and calls one and all to share in the profound adventure of seeking truth in the world around us.

Spaceflight Pearson Higher Ed

Physics in Minutes covers everything you need to know about physics, condensed into 200 key topics. Each idea is explained in clear, accessible language, building from the basics, such as mechanics, waves and particles, to more complex topics, including neutrinos, string theory and dark matter. Based on scientific research proving that the brain best absorbs information visually, illustrations accompany the text to aid quick comprehension and easy recollection. This convenient and compact reference book is ideal for anyone interested in how our world works. Chapters include: Newton's Laws of Motion, Schrödinger's cat, Magnetism, Superconductivity, Fission and fusion, Higgs Boson, Entropy, Dark matter.

Six Not-So-Easy Pieces World Scientific

During the twenty years the authors have been associated with the field of radiation ecology, there has been a diversified and increasing use of radionuclides in applied and basic biological research. Prior to the advent of the atomic age in the 1940s the use of radionuclides as tracers was initiated, and following that period one observed a dramatically increased use in many disciplines. Concurrent with this increase there appeared many books and articles on radionuclide techniques useful to biologists in general. Although only a few ecological applications were evident in these early years, ecologists were quick to see the opportunities available in their field. In the United States, major centers for such activities included Oak Ridge National Laboratory and the U. S. Atomic Energy Commission's Savannah River Plant. At Oak Ridge National Laboratory Dr. Stanley I. Auerbach, director of ecological activities, encouraged with remarkable success the use of tracers by his associates. Dr. Eugene P. Odum had the foresight to see that radionuclide tracers provided the means to solve many problems of interest to ecologists. Consequently, his research included some unique radio tracer applications at the Savannah River Plant. In addition he encouraged others involved in ecological activities at the Savannah River Plant to do likewise. Ecologists such as Dr. Robert C. Pendleton at the U. S. Atomic Energy Commission's Hanford Works applied radionuclides in their research. To these early investigators and to those who followed we owe the opportunity to write this book.

Science Princeton University Press

The focus of *Unique Physics of Light and Astronomy*, a brand new title from Professor Kadakia, is on the processes responsible for the creation of light and its interaction with matter. After several years of extensive research in light wave physics, the author realized that several past physicists had left unexplained gaps in their theories characterizing the behavior of radiation entities in general, and light waves in particular. Though Einstein had postulated a dual nature of light and radiation, namely a particle and a wave, which travelled at a constant speed c in space, he did not describe the physical phenomenon for the origination of radiant energy. In this text book, we reveal the unique events surrounding the creation of light and radiation waves. They are germinated from a quantum phenomenon, electrons dissipate energy during orbital transitions, inherently due to a quantized change in their energy states while performing oscillations within electrostatic charge field of protons. Thus, the frequencies and the speed of all radiation is set by the reverberation of the charge field that is independent of the motion of atoms and objects. Moreover, various types of radiation is thus considered as manifestations of oscillations of the charge field at different frequencies and, therefore, are not electromagnetic in nature. The readers of this text will be amazed by the several stunning breakthrough ideas presented here. For instance, we developed a novel concept for the probability of finding a radiation quantum in Richard Feynman's QED that is determined from the wave function of a particle electron that creates the radiation. Another remarkable fact that is postulated by us is that "Black Holes" do not possess a singularity, as was made popular by Stephen Hawking, inasmuch as they are quark stars in reality. Finally, we proudly announce that we have revised the most celebrated mass-energy equivalence expression, as postulated by Albert Einstein, for translation of matter into energy $E = mc^2$ to new a relationship to wit: $E = \sum \text{neutrinos} + \sum \text{radiation}$.