

Physics In Minutes Giles Sparrow

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The Human Body in Minutes World Scientific

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Economics in Minutes Cambridge University Press

A plain-English guide to advanced physics Does just thinking about the laws of motion make your head spin? Does studying electricity short your circuits? Physics II For Dummies walks you through the essentials and gives you easy-to-understand and digestible guidance on this often intimidating course. Thanks to this book, you don't have to be Einstein to understand physics. As you learn about mechanical waves and sound, forces and fields, electric potential and electric energy, and much more, you'll appreciate the For Dummies law: The easier we make it, the faster you'll understand it! An extension of the successful Physics I For Dummies Covers topics in a straightforward and effective manner Explains concepts and terms in a fast and easy-to-understand way Whether you're currently enrolled in an undergraduate-level Physics II course or just want a refresher on the fundamentals of advanced physics, this no-nonsense guide makes this fascinating topic accessible to everyone.

Numbers in Minutes Psychology Press

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

What Shape is Space? Quercus

This book explains the fascinating world of quarks and leptons and the forces that govern their behavior. Told from an experimental physicist's perspective, it forgoes mathematical complexity, using instead particularly accessible figures and apt analogies. In addition to the story of quarks and leptons, which are regarded as well-accepted fact, the author (who is a leading researcher at one of the world's highest energy particle physics laboratories) also discusses mysteries at both the experimental and theoretical frontiers, before tying it all together with the exciting field of cosmology and indeed the birth of the universe itself.

The Astronomy Book Quercus

Why 60 seconds in a minute? Who invented zero? What exactly is pi? Why do mathematicians hunt prime numbers? And how can you get a number bigger than infinity? To find out, take a tour through 200 important, fascinating and unusual numbers - the easy and entertaining way to grasp mathematics. Numbers in Minutes demystifies the maths surrounding the key numbers including: zero, 1-40, negatives, percentages, prime numbers, fractions, decimals, pi, exponentials, imaginary numbers, squares and cubes, roots and powers, Fibonacci numbers, the golden ratio, millions and trillions, a googol, 'perfect,' 'kissing,' 'vampire' and 'weird' numbers, infinity, infinity+1 and other sizes of infinity... Every number is explained in a few short paragraphs with a helpful picture, making the maths simple to understand and remember.

Phenomena Quercus Publishing

"If Ms. Frizzle were a physics student of Stephen Hawking, she might have written THE UNIVERSE IN YOUR HAND, a wild tour through the reaches of time and space, from the interior of a proton to the Big Bang to the rough suburbs of a black hole. It's friendly, excitable, erudite, and cosmic." —Jordan Ellenberg, New York Times besteselling author of How Not To Be Wrong Quantum physics, black holes, string theory, the Big Bang, dark matter, dark energy, parallel universes: even if we are interested in these fundamental concepts of our world, their language is the language of math. Which means that despite our best intentions of finally grasping, say, Einstein's Theory of General Relativity, most of us are quickly brought up short by a snarl of nasty equations or an incomprehensible graph. Christophe Galfard's mission in life is to spread modern scientific ideas to the general public in entertaining ways. Using his considerable skills as a brilliant theoretical physicist and successful young adult author, *The Universe in Your Hand* employs the immediacy of simple, direct language to show us, not explain to us, the theories that underpin everything we know about our universe. To understand what happens to a dying star, we are asked to picture ourselves floating in space in front of it. To get acquainted with the quantum world, we are shrunk to the size of an atom and then taken on a journey. Employing everyday similes and metaphors, addressing the reader directly, and writing stories rather than equations renders these astoundingly complex ideas in an immediate and visceral way. Utterly captivating and entirely unique, *The Universe in Your Hand* will find its place among other classics in the field.

The Physics Book Penguin

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.

Saturn University of Michigan Press

The brain is considered the most complex structure in all of creation. But recent discoveries in neuroscience are now revealing the inner secrets of the brain--how it works, why it makes us who we are and what happens when it goes wrong. The cutting-edge and comprehensive guide explains why the human brain became so clever; how it controls everything from breathing, sleeping and seeing to identity, imagination, pleasure and pain; and what will happen when the brain integrates with computers or the latest generation discoveries. Award-winning science writer Rita Carter also demystifies amnesia, multiple personalities, psychopathy, dreaming, hallucinations, addiction, autism, dyslexia, schizophrenia, dementia, and numerous other conditions of the mind. *The Brain in Minutes* covers: the origin and anatomy of the brain; control of the body; mood and emotions; perception; consciousness; memory and learning; personality; intelligence and other higher functions; language; strange states of the mind; malfunctions, disease and treatments; and the future of the brain. It also includes 200 high-tech scans, images, and diagrams that detail and explain the structure and workings of the amazing human brain.

Physics in Minutes Quercus

An icon of science, the Periodic Table defines the fundamental chemistry of everything in the universe. In this compact yet comprehensive guide, Dan Green outlines the history, development and workings of the table, shows how its design reflects and illuminates the organisation of all matter, and even explains what it has to tell us about the chemistry of distant stars and of our own bodies. Contents include an individual entry for every known element? detailing properties, uses and key data, and sections on the patterns and groups of the famous table, as well as explanations of basic chemistry concepts such as elements and compounds, atomic structure, chemical bonds, reactions and radioactivity, amongst many others.

Dark Matter and Dark Energy Penguin

Explore the laws and theories of physics in this accessible introduction to the forces that shape our universe, our planet, and our everyday lives. Using a bold, graphics-led approach, *The Physics Book* sets out more than 80 of the key concepts and discoveries that have defined the subject and influenced our technology since the beginning of time. With the focus firmly on unpacking the thought behind each theory—as well as exploring when and how each idea and breakthrough came about—five themed chapters examine the history and developments in specific areas such as

Light, Sound, and Electricity. Eureka moments abound: from Archimedes' bathtub discoveries about displacement and density, and Galileo's experiments with spheres falling from the Tower of Pisa, to Isaac Newton's apple and his conclusions about gravity and the laws of motion. You'll also learn about Albert Einstein's revelations about relativity; how the accidental discovery of cosmic microwave background radiation confirmed the Big Bang theory; the search for the Higgs boson particle; and why most of the universe is missing. If you've ever wondered exactly how physicists formulated—and proved—their abstract concepts, *The Physics Book* is the book for you. Series Overview: Big Ideas Simply Explained series uses creative design and innovative graphics along with straightforward and engaging writing to make complex subjects easier to understand. With over 7 million copies worldwide sold to date, these award-winning books provide just the information needed for students, families, or anyone interested in concise, thought-provoking refreshers on a single subject.

The Periodic Table in Minutes Icon Books

Zoom meets Beautiful Oops! in this memorable picture book debut about the creative process, and the way in which "mistakes" can blossom into inspiration One eye was bigger than the other. That was a mistake. The weird frog-cat-cow thing? It made an excellent bush. And the inky smudges... they look as if they were always meant to be leaves floating gently across the sky. As one artist incorporates accidental splotches, spots, and misshapen things into her art, she transforms her piece in quirky and unexpected ways, taking readers on a journey through her process. Told in minimal, playful text, this story shows readers that even the biggest "mistakes" can be the source of the brightest ideas—and that, at the end of the day, we are all works in progress, too. Fans of Peter Reynolds's *Ish* and Patrick McDonnell's *A Perfectly Messed-Up Story* will love the funny, poignant, completely unique storytelling of *The Book of Mistakes*. And, like *Oh, The Places You'll Go!*, it makes the perfect graduation gift, encouraging readers to have a positive outlook as they learn to face life's obstacles.

The Brain in Minutes Quercus

This is a guide to the main developments in the history of British and Irish literature, charting some of the main features of literary language development and highlighting key language topics. *Philosophy in Minutes* Reaktion Books

'Clear and compact ... It's hard to fault as a brief, easily digestible introduction to some of the biggest questions in the Universe' Giles Sparrow, BBC Four's *The Sky at Night*, Best astronomy and space books of 2019: 5/5 All the matter and light we can see in the universe makes up a trivial 5 per cent of everything. The rest is hidden. This could be the biggest puzzle that science has ever faced. Since the 1970s, astronomers have been aware that galaxies have far too little matter in them to account for the way they spin around: they should fly apart, but something concealed holds them together. That 'something' is dark matter - invisible material in five times the quantity of the familiar stuff of stars and planets. By the 1990s we also knew that the expansion of the universe was accelerating. Something, named dark energy, is pushing it to expand faster and faster. Across the universe, this requires enough energy that the equivalent mass would be nearly fourteen times greater than all the visible material in existence. Brian Clegg explains this major conundrum in modern science and looks at how scientists are beginning to find solutions to it.

Constellations Arcturus Publishing

Saturn is the showpiece planet of our solar system. It may not be the largest, nor the smallest, nor even the only planet with rings. But it is among the most stunning objects in the sky and is always breathtaking when seen in a telescope. This is a beautifully illustrated, authoritative overview of the entire history of humankind's fascination with the ringed planet, from the first low-resolution views by Galileo, Huygens, and other early observers with telescopes to the most recent discoveries by the spacecraft Cassini, which studied the planet at close range between 2004 and 2017. Saturn describes the planet from inside out, detailing the complicated system of rings and their interaction with Saturn's bevy of satellites, and it considers how Saturn formed and the role

it played in the early history of the solar system. Featuring the latest research and a spectacular array of images, this book will appeal to anyone who has ever gazed with wonder upon the sixth planet from the sun.

Genetics 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. **University Physics with Modern Physics, eBook, Global Edition** MIT Press

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.

The Stargazer's Handbook Dorling Kindersley Ltd

Constellations is a guide to the night sky that focuses on these 88 distinctive patterns, revealing their often intriguing stories—their origins, mythology, present-day significance, and the multitude of wondrous objects they contain. Complete with over 300 of the best astronomical images ever captured, a comprehensive introduction to the stars and other celestial phenomena, and a series of newly commissioned, state-of-the-art maps showing the stars that are visible from populated latitudes in both hemispheres throughout the year, this magnificent guide has all you need to know to become an expert stargazer. Step outside on a clear night, and the number of stars in the night sky can be overwhelming. Take a pair of binoculars or a small telescope with you, and a celestial vista of star clusters and clouds, knots of gas and dust, nearby planets and distant galaxies is revealed. Since ancient times, stargazers have made sense of the night sky by grouping its stars into constellations—star patterns that often have symbolic or mythological meanings.

Solar System in Minutes Librorium Editions

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.

Science Quercus Publishing

What Shape is Space? is a question with surprisingly far-reaching implications for our understanding of the very nature of reality and our place within it. The concepts involved may be sophisticated, but Giles Sparrows effortless prose style easily renders them understandable, allowing readers to get to grips with the overarching debates at the cutting edge of cosmology today. Infographics, diagrams and astronomical visualizations illustrate and clarify the various astonishing implications of a universe of infinite space.

Science in Seconds Quercus

What happened to the Roman Empire? Why was the Magna Carta so important? What led to the First World War? Why did the USSR collapse? *World History in Minutes* provides succinct answers to these questions - and many more - in 200 simple and accessible essays. From the 100 Years War to the Gulf Wars, and from the wisdom of Aristotle to the Civil Rights movement, this book distils the major events in human history into easily digestible chunks. Each essay is accompanied by an image - or a clear diagram to illustrate complex ideas - and will plug the gaps in your knowledge of the most important eras, movements and events in the history of humankind. *World History in Minutes* is the perfect introduction to this expansive subject. Contents include: Neanderthals, Babylonians, Attila the Hun, Abyssinian Empire, Magna Carta, Black Death, Inca, Henry VIII Reformation, Ulster Plantations, Rousseau and the Enlightenment, Declaration of Independence, French Revolution, Tonga Civil War, Universal Suffrage, Spanish Influenza, Great Depression, Pearl Harbour, The Space Age, Civil Rights, Environmentalism, Oligarchs and Tiger Economies.