

# Physics In Minutes Giles Sparrow

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## **Starfinder** Simon and Schuster

From brain cells and the Big Bang to energy and elements, this beautiful encyclopedia brings together cutting-edge knowledge, awe-inspiring ideas, and eye-opening images. Key concepts are explained with clarity but accuracy by an expert author; and brought to life by carefully chosen images, which showcase extraordinary photography. This title should find a place on the bookshelves of all children aged 8+.

## Politics in Minutes Quercus

Quick, accessible, compact guide to understanding key political concepts. Contents include: Liberty, Justice, Equality, Human rights, Social contract, Democracy, Monarchy, Anarchism, Capitalism, Socialism, Nationalism and Globalisation.

## *The Human Body in Minutes* Quercus

This concise, illuminating guide takes us on a comprehensive tour of our bodies, explaining how they work and why they work that way, from the basic unit of the cell, through the tissues and organs that make up the body's systems, to how these systems work together to form a complete human being, from evolution, genetics, and conception through to disease, death, and how technology will transform the body of the future. The Human Body in Minutes covers the features and functions of all the major body systems including the skeletal, muscular, digestive, respiratory, cardiovascular, immune, reproductive, nervous, and hormonal systems, as well as human evolution, inheritance and genetics, human behavior, and illness and medicine. With 200 cutting-edge anatomical images, cross-sections, and closeups that detail and explain the brain, eye, heart, skin, skeleton, lung, kidney, ear, blood liver, stomach, muscles, veins, arteries, DNA, chromosomes, and all of the key features of our bodies, this is the perfect, easy reference to the anatomy, physiology, and science of the human body.

## Numbers in Minutes 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.

## Phenomena World Scientific

The clearest, most visual e-guide to space and the Universe for complete beginners to astronomy. Have you ever asked yourself how big the Universe is, how far it is to the nearest star, or what came before the Big Bang? Then this is the ebook for you. How Space Works shows you the different types of object in the Universe (so you'll know your pulsars from your quasars) and introduces you to some of the strangest and most wonderful things known to science, including dark matter particles and ancient white dwarf stars that are almost as old as the Universe itself. The ebook starts with an explanation of our view of the Universe from Earth, then takes a tour of the Solar System, the stars and galaxies, and the furthest reaches of space. The last chapter looks at the technology we use to explore the Universe, from the International Space Station to Mars rovers and the new and revolutionary reusable rockets. Illustrated with bold graphics and step-by-step artworks - and peppered with bite-sized factoids and question-and-answer features - this is the perfect introduction to astronomy and space exploration.

## 50 Physics Ideas You Really Need to Know Quercus

'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.

## The Periodic Table in Minutes Quercus

In this hyper-compact, fully illustrated guide to architecture, Susie Hodge outlines the history and theory of architecture from the earliest structures to the cutting-edge concepts of the present day.

Along the way she profiles 200 key buildings, historic styles, architectural movements and celebrated architects from all around the world. Contents include the Greek orders, Roman engineering, Gothic architecture, the Renaissance, the Baroque, Revivalism, Art Nouveau, Modernism and Postmodernism, Futurism and Dynamic architecture along with architects like Inigo Jones, Christopher Wren, Gaudi, Frank Lloyd Wright, Le Corbusier and Frank Gehry.

Evolution in Minutes Penguin

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.

Architecture In Minutes Quercus

The 50 most important structures and systems in the human body, each explained in half a minute. The bestselling 30-Second series offers a new approach to learning about those subjects you feel you should really understand. Every title takes a popular topic and dissects it into the 50 most significant ideas at its heart. Each idea, no matter how complex, is explained using a mere two pages, 300 words, and one picture: all easily digested in only half a minute. 30-Second Anatomy offers you an instant diagnosis of how your body works. Whether you're a medical student, an artist, a body worker, or simply want to know what your doctor is talking about when he mentions your humerus, this is the quickest way to get under your own skin.

Dissecting the workings of everything from your heart to your brain into 30-second summaries, this is the quickest way to understand the structures and systems that are you. Supported by biographies of the pioneers in anatomy studies, it's the book that would have kept Burke and Hare home at night.

How Space Works Quercus Publishing

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.

The History of Our Universe in 21 Stars Icon Books

To what extent is memory based on mood? Why do we compare ourselves to others? Are there different types of intelligence? How do we change with age? This book answers all these questions and many more in 200 short and accessible essays. From Pavlov's dogs to experimental ethics and from the development of personality to cognitive behavioural therapy, this book will take you from the foundations of psychological thought to modern-day applications, drawing on recent research and established theories. Each essay is accompanied by an illustration or diagram to help unravel complex ideas. The principles of psychology apply to each and every one of us as they shed light on everything from our childhood development to our interaction with others - and Psychology in Minutes is the perfect insight to this fascinating subject. Contents include: Behaviourism, Experimental ethics, Problem solving, Illusions and paradoxes, Dream analysis,

Management and leadership, Compliance and conformity, Attitudes and prejudices, Attraction, Moral development, Gender development, The big five personality traits, Classification of mental disorders, Criticisms of psychoanalysis, Positive psychology, Advertising and the media and The working environment. Economics in Minutes Quercus

Extraterrestrial life is a common theme in science fiction, but is it a serious prospect in the real world?

Astrobiology is the emerging field of science that seeks to answer this question. The possibility of life elsewhere in the cosmos is one of the most profound subjects that human beings can ponder. Astrophysicist Andrew May gives an expert overview of our current state of knowledge, looking at how life started on Earth, the tell-tale 'signatures' it produces, and how such signatures might be detected elsewhere in the Solar System or on the many 'exoplanets' now being discovered by the Kepler and TESS missions. Along the way the book addresses key questions such as the riddle of Fermi's paradox ('Where is everybody?') and the crucial role of DNA and water - they're essential to 'life as we know it', but is the same true of alien life? And the really big question: when we eventually find extraterrestrials, will they be friendly or hostile?

Big Ideas in Brief Ivy 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.

Liquid Life Quercus

From Nobel Prize - winning physicist P. J. E. Peebles, the story of cosmology from Einstein to today. Modern cosmology began a century ago with Albert Einstein's general theory of relativity and his notion of a homogenous, philosophically satisfying cosmos. Cosmology's Century is the story of how generations of scientists built on these thoughts and many new measurements to arrive at a well-tested physical theory of the structure and evolution of our expanding universe. In this landmark book, one of the world's most esteemed theoretical cosmologists offers an unparalleled personal perspective on how the field developed. P. J. E. Peebles was at the forefront of many of the greatest discoveries of the past century, making fundamental contributions to our understanding of the presence of helium and microwave radiation from the hot big bang, the measures of the distribution and motion of ordinary matter, and the new kind of dark matter that allows us to make sense of these results. Taking readers from the field's beginnings, Peebles describes how scientists working in independent directions found themselves converging on a theory of cosmic evolution interesting enough to warrant the rigorous testing it passes so well. He explores the major advances--some inspired by remarkable insights or perhaps just lucky guesses--as well as the wrong turns taken and the roads not explored. He shares recollections from major players in this story and provides a rare, inside look at how science is really done. A monumental work, Cosmology's Century also emphasizes where the present theory is incomplete, suggesting exciting directions for continuing research.

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The World According to Physics Hachette UK

What happens when a star dies? How many asteroids are in our solar system? Can galaxies collide? What is dark energy? Astronomy in Minutes answers all these questions and more as it condenses 200 key concepts into easily digestible essays. From Trojan asteroids to stellar black holes, and from superclusters to cosmic microwave background, this book will take you on an essential tour around the universe. Beginning with the specks and constellations that we see in the night sky, and then zooming in on the objects and 'matter' beyond the naked eye, Astronomy in Minutes draws on established theories and recent research. Each essay is accompanied by an image or a clear diagram to help unravel complex ideas. Beginning with the constellations and finishing with the latest cosmological theories, this is the perfect reference guide to this fascinating subject. Contents include: The celestial sphere, Pscis Austrinus, the Earth-Moon system, Io and Ganymede, Kuiper Belt Objects, Measuring stellar properties, Nuclear fusion, Red and orange dwarfs, Open star clusters, Planetary nebulae, Supernova remnants, Cosmic expansion, Quasars and blazars, Nature of spacetime, Nucleosynthesis and the Anthropic Principle.

Dark Matter and Dark Energy Quercus Publishing

Astronomy, perhaps the first of the sciences, was already well developed by the time of Christ.

Seventeen centuries later, after Newton showed that the movements of the planets could be explained in terms of gravitation, it became the paradigm for the mathematical sciences. In the nineteenth century the analysis of star-light allowed astrophysicists to determine both the chemical composition and the radial velocities of celestial bodies, while the development of photography enabled distant objects invisible to the human eye, to be studied and measured in comfort. Technical developments during and since the Second World War have greatly enlarged the scope of the science by permitting the study of radiation. This is a fascinating introduction to the history of Western astronomy, from prehistoric times to the origins of astrophysics in the mid-nineteenth century. Historical records are first found in Babylon and Egypt, and after two millennia the arithmetical astronomy of the Babylonians merged with the Greek geometrical approach to culminate in the Almagest of Ptolemy. This legacy was transmitted to the Latin West via Islam, and led to Copernicus's claim that the Earth is in motion. In justifying this Kepler converted astronomy into a branch of dynamics, leading to Newton's universal law of gravity. The book concludes with eighteenth- and nineteenth-century applications of Newton's law, and the first explorations of the universe of stars. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Astrobiology Penguin

From the craters of the Moon to the far reaches of Orion, The Stargazer's Handbook will enable you to explore space without leaving the comforts of Earth. All you need are a pair of binoculars and a clear night sky to experience the wonders of the universe. This book will take you on a journey through space, beginning with our own moon and neighboring planets before exploring the fascinating sights of deep space--from hypergiant suns and stellar nurseries to blazing nebulae and swirling galaxies. Each star, planet, or constellation is fully illustrated and accompanied by an annotated star map, as well as close-up images that zoom in on areas of interest. Featuring up-to-date information on the latest scientific discoveries, monthly sky maps for both northern and southern hemispheres, history and mythology of all 88 constellations and the rationale behind the names of stars and constellations, The Stargazer's Handbook will fully equip you with the tools to navigate--and understand--the night sky.

Science in Seconds John Wiley & Sons

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.

Physics II For Dummies Quercus

Previously published as A History of the Universe in 21 Stars. 'REVISED AND UPDATED \_\_\_\_' 'A wonderful book about the science, history and mythology of 21 stars (and 3 impostors).' Dr David Whitehouse Look up on a clear evening, and you'll see thousands of stars shining in the night sky, each telling a story of their own. With star maps to help easily identify key celestial bodies, astronomer Giles Sparrow takes 21 stars (and three impostors) to look at what each pinprick of light can tell us about the birth, life and death of our universe. From red giants to supernovae and from stellar cities to our own Sun, The History of Our Universe in 21 Stars shows how the lights we see in the sky can help us unravel the mysteries of the cosmos. 'Beautifully written and extremely accessible ... It's extremely difficult to put down! Gemma Lavender

The Big Book of Science Icon Books

Evolution in Minutes is your compact and accessible guide to the central concepts of the science of evolution, revealing how biological populations change over successive generations. Covering the basics of speciation, genesis, and extinction in animals, plants, and humans alike--from the origins and development of life to artificial selection and evolutionary algorithms--this is the fastest, fullest path to understanding evolution. Contents include fossils, microbes, genes, DNA, natural selection, Darwinism, genetic drift, mutation, gene migration, heredity, adaptation, and variation, as well as key biological concepts necessary to understand the fascinating field of evolution.