

## Physics In Minutes Giles Sparrow

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Physics II For Dummies Hachette UK

Although a mere speck in the vast cosmos, humans have managed to piece together an incredible understanding of the Universe. Discover its magic and unravel its mysteries with this book. Starting from a launchpad on Earth, set off on an enthralling journey to the Solar System, the Milky Way, and finally to the very edges of the known Universe. Space: From Earth to the Edge of the Universe features fascinating facts, an engaging narrative, and rich photographs that help you comprehend the vastness of this world that we exist in. The book has been divided into seven chapters covering intriguing concepts such as spacewalking, getting close to the Sun, and the Planetary Nebulae. Detailed illustrations and explanatory artworks give you a deep insight into the limits of galaxies, what lies in our neighboring worlds, the rings and moons of other planets, and much more. Discover the technology and spacecrafts behind the extraordinary journeys undertaken by astronauts, study the planets, asteroids, and galaxies and immerse yourself in the important space discoveries of our time. Featuring the latest spectacular images from NASA and other sources, Space will take you on the expedition of a lifetime.

The Periodic Table in Minutes Gramercy Books

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.

Space Firefly Books Limited

Your guide to science, from the Big Bang to AI Whether you wish to discover the basics of science or catch up on its latest developments, this short accessible guide is for you.

YOUNIVERSE describes in simple terms the world you are inseparably a part of: what it is, how

it works and your place in it – insofar as these things are known. The text has been vetted by 13 distinguished scientists. Journey now through time and space, a world of the unimaginably big and the inconceivably small – though the marvels of science. \*PRAISE FOR YOUNIVERSE\*

‘ This is a fine piece of work... very entertaining and informative... It should appeal and be useful to the generalist who wants an overview of science. ’ Sir Peter Ratcliffe, 2019 Nobel Prize winner and head of clinical research at the Francis Crick Institute

*Atlas of the Constellations* Quercus

Explains how different kinds of chemical reactions ranging from precipitation and combustion to polymerization and catalysis are formed, including examples, color illustrations, and real-life applications for each reaction.

Iron Oxford University 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.

Cosmos Dk Pub

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 Quercus

The biggest and best ever reproduction of the Space Age's most remarkable images The magnificent vault of stars emblazoning Earth's night skies are but an infinitesimal fraction of the hundreds of billions that inhabit our galaxy - and there are at least as many galaxies in the universe as there are stars in the Milky Way. Cosmos makes sense of this dizzying celestial panorama by exploring it one step at a time, illustrating the planets, moons, stars, nebulae, white dwarfs, black holes and other exotica that populate the heavens with some of science's most spectacular photographs. The book opens with an orbital survey of planet Earth, before venturing into the solar system heading for interstellar space and the heart of our galaxy. As the journey unfolds, the rhythms of stellar life emerge: we pass through dark clouds of dust and gas ablaze with newly smelted stars and we witness dying stars bloom and fade as planetary nebulae, or tear themselves apart as supernovae. Having crossed the Milky Way, we enter intergalactic space. Out here we watch the hidden lives of galaxies: we see them flock and cluster, forming massive conglomerations that span millions of light years, visibly warping space with their tremendous gravity. After covering an almost unimaginable 13.4 billion light years, we approach the edge of space and the dawn of time where our voyage must end, but not before we consider how the universe was born, and how it might die. A landmark in popular science publishing, Cosmos is a majestic, giant format, account of the ultimate journey - a 13.7-billion-light-year- (or 130-billion-trillion kilometre- ) voyage from our home planet to the edge of the universe and the beginning of time. Illustrated with 450 images of staggering beauty.

#### Quantum Physics in Minutes Book Sales

From the author of the acclaimed *The Epigenetics Revolution* ('A book that would have had Darwin swooning' – Guardian) comes another thrilling exploration of the cutting edge of human science. For decades after the structure of DNA was identified, scientists focused purely on genes, the regions of the genome that contain codes for the production of proteins. Other regions – 98% of the human genome – were dismissed as 'junk'. But in recent years researchers have discovered that variations in this 'junk' DNA underlie many previously intractable diseases, and they can now generate new approaches to tackling them. Nessa Carey explores, for the first time for a general audience, the incredible story behind a controversy that has generated unusually vituperative public exchanges between scientists. She shows how junk DNA plays an important role in areas as diverse as genetic diseases, viral infections, sex determination in mammals, human biological complexity, disease treatments, even evolution itself – and reveals how we are only now truly unlocking its secrets, more than half a century after Crick and Watson won their Nobel prize for the discovery of the structure of DNA in 1962.

#### **The Stargazer's Handbook** Quercus

#### Physics in Minutes Quercus Publishing

Quercus

*Economics in Minutes* condenses key economics concepts into 200 short and easily digested essays. Featuring not only fundamental ideas, such as the role of money and how the stock market works, but also subjects that are increasingly important to us today - unemployment, government debt and corporate tax avoidance, for example. *Economics in Minutes* is the ideal introduction to a complex and vital subject. Key topics are succinctly described and accompanied by illustrations, making them simple to read and easy to remember. This convenient little reference guide will allow readers to understand the theories underpinning a subject that affects our lives on a daily basis. Chapters include: Supply and demand, globalization, market failure, GDP and happiness, risk and uncertainty, living standards and productivity, Game theory, economics and culture.

#### Voyage Across the Cosmos Mini Encyclopedia

The *Solar System in Minutes* explains the history and features of all the major celestial bodies, including the Sun, Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune, the planets' main moons, the asteroids, comets, dwarf planets, and the Kuiper belt, as well as the birth, evolution, and science of the solar system and the story--and future--of its exploration. With 200 of the very latest space images and

explanatory diagrams that bring these concepts to life, *Solar System in Minutes* is the easiest way to understand our cosmic neighborhood.

#### Economics in Minutes Quercus

Includes : What is nickel? -- Special characteristics -- The history of nickel -- Where nickel is found -- Mining and refining -- Nickel and its compounds -- Nickel in steel -- Other nickel alloys -- Nickel coins -- Nickel and the body -- Periodic tabel -- Chemical reactions.

#### Numbers in Minutes Welbeck Publishing Group

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 half-century 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.

#### **Cosmos** Prelude Books

*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.

#### Physics in Minutes Quercus Publishing

*Stars and Planets* is a 300-entry mini encyclopedia of the universe that surrounds our world.

#### **Nickel** Enslow Publishing, LLC

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.

#### Solar System in Minutes Quercus Publishing

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

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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.

#### Hubble Marshall Cavendish

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.

#### *Instant Physics* Welbeck Publishing

Get ready for the most incredible safari imaginable: a journey around the globe and throughout history to discover an array of astonishing creatures that almost defy explanation. This fascinating field guide surveys the globe in search of mysterious animals in remote corners of the world, and reveals the truth behind the creatures of myth and legend that have been passed down from generation to generation. Prepare to meet Biblical beasts such as Behemoth and Leviathan, and Mediterranean monsters like the ferocious Minotaur, and Medusa with her deadly stare. In northern Europe you will encounter the famous western dragon and its close relative the wyvern, as well mischievous fairies, gremlins and pixies and, of course, the Loch Ness Monster. Investigate the evidence for sightings of Bigfoot and giant serpents in the Americas; track the mysterious Kongamoto and Ennedi tiger in Africa and do your best to not to disturb the lethal Mongolian death worm or the reclusive Yeti in Asia and beyond. Packed with spectacular computer-generated images, the very latest research and theories about each animal, and distribution maps, tracker tips and advice on how to protect yourself from these fearsome beasts, the pages of this book reveal the world of fabulous creatures and monsters as you have never seen them before.

#### The Cosmic Gallery Quercus Publishing

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.