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## Physics In Minutes Giles Sparrow

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*The Stargazer's Handbook* Marshall Cavendish  
Both simple and accessible, Maths in Minutes is a visually led introduction to 200 key mathematical ideas. Each concept is quick and easy to remember, described by means of an easy-to-understand picture and a maximum 200-word explanation. Concepts span all of the key areas of mathematics, including Fundamentals of Mathematics, Sets and Numbers, Geometry, Equations, Limits, Functions and Calculus,

Vectors and Algebra, Complex Numbers, Combinatorics, Number Theory, Metrics and Measures and Topology.

**Quantum Physics in Minutes** Oxford University Press

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.

Firefly Books Limited

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

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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.

Science in Seconds Physics in Minutes

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.

*A History of the Universe in 21 Stars: (and Three Imposters)*

Hachette UK

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

*Space Thames & Hudson*

Constellations is a guide to the night sky that focuses on these 88 distinctive patterns, revealing their often intriguing storiesâ??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 constellationsâ??star patterns that often have symbolic or mythological meanings.

**Mars** Hachette UK

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

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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.

*Physics in Minutes* Mini Encyclopedia

“There are words that are so familiar they obscure rather than illuminate the thing they mean, and ‘learning’ is such a word. It seems so ordinary, everyone does it. Actually it’s more of a black box, which Dehaene cracks open to reveal the awesome secrets within.”--The New York Times Book Review An illuminating dive into the latest science on our brain's remarkable learning abilities and the potential of the machines we program to imitate them The human brain is an extraordinary learning machine. Its ability to reprogram itself is unparalleled, and it remains the best source of inspiration for recent developments in artificial intelligence. But how do we learn? What innate biological foundations underlie our ability to acquire new information, and what principles modulate their efficiency? In *How We Learn*, Stanislas Dehaene finds the boundary of computer science, neurobiology, and cognitive psychology to explain how learning really works and how to make the best use of the brain’s learning algorithms in our schools and universities, as well as in everyday life and at any age.

**The Periodic Table in Minutes** Hardie Grant Publishing

Stefan Gates asks and answers all the questions about farts, so that you don't have to. What is a fart? Do all creatures fart? Why do farts smell? Why do we find them so embarrassing... and so darned funny?! Broadcaster and obsessive fartologist Stefan

Gates tackles these pressing issues in *Fartology*, the first ever book to take a comprehensive, scientific look at the body’s extraordinary methane-making abilities. Stefan looks at the journey from food to fart; the weird science behind intestinal gas; the sounds, smells and all things in between. With farty recipes, musings on the greatest farters in history, farts in literature, and fart euphemisms *Fartology* offers mind-blowing, trouser-exploding fun for all the family.

**Maths in Minutes** Quercus

Within the last 40 years, the contents of our solar system have been slowly revealed by a fleet of satellites and interplanetary probes, from Cassini to the Hubble Space Telescope to the recent Mars Exploration Rovers. Moving out from the Sun, every planet and moon is visited in this comprehensive survey that follows the tracks of robotic rovers over Mars, plunges through Titan’s atmosphere on the back of the Huygens probe, inspects a comet, and discovers the frozen planets that lurk beyond the orbit of Neptune, a full light year from Earth. The breathtaking images of dozens of celestial bodies are accompanied by fascinating captions and informative diagrams, completing this stunning compilation.

Economics in Minutes Welbeck Publishing Group

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.

Constellations Quercus

*Physics in Minutes* Quercus Publishing

*What Shape is Space?* Penguin

Explains how different kinds of chemical reactions ranging

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from precipitation and combustion to polymerization and catalysis are formed, including examples, color illustrations, and real-life applications for each reaction.

#### Space Flight Quercus Books

For 20 years the Hubble Space Telescope has been hurtling around our planet at 17,500 mph sending spectacularly sharp images of the universe back to Earth. Hubble is a visual celebration of this large and versatile telescope's astonishing scientific and technical achievements. This fully revised and updated edition of *Hubble: Window on the Universe (Legacy Edition)* showcases the very latest and clearest images of galaxies, nebulae, quasars, exploding stars and stellar nurseries. More than 200 remarkable cosmic images reveal the inner workings of the solar system, the expansion of the Universe, the birth and death of stars, the formation of planetary nebulae, the dynamics of galaxies and the mysterious force known as 'dark energy'. Featuring the history of the project from its origins and launch in 1990, the discovery and emergency repair of a defective mirror, the impact of subsequent servicing missions and finally, its extraordinary legacy this stunning giant volume will take you on a journey through the universe via 200 glorious full-colour images.

**Atlas of the Constellations** Marshall Cavendish  
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.

#### **Fartology** Book Sales

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,

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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.

#### Numbers in Minutes Quercus

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.

#### *Instant Physics* Quercus

Discusses the origin, discovery, special characteristics, and uses of iron.

#### Solar System in Minutes Quercus Books

On any clear night, the night sky offers an ever-changing display of fascinating objects, visible to the naked eye:

stars, constellations, bright planets, the moon, human-made satellites, and sometimes even meteor showers or the International Space Station. With gorgeous high-definition imagery and a wealth of charts, graphs, and infographics, readers will find here what is visible in the night sky at various times of the year and from what locations around the world. They will learn what additional objects they can see with the help of telescopes, binoculars, and sky maps. Also featured are skywatching terms and night sky observing tips.

#### The Memory Keeper's Daughter 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

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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.