
Physics In Minutes Giles Sparrow

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[The Illustrated Encyclopedia of Space & Space Exploration](#) Quercus Books

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.

[Maths in Minutes](#) Thames & Hudson

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

Cosmos Quercus

The Illustrated Encyclopedia of Space & Space Exploration will inspire and educate anyone interested in finding out more about the Universe. **Atlas of the Constellations Penguin** Presents photographs of the Universe with close-ups of the planets, sun, and stars.

[Physics in Minutes](#) Penguin

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.

Solar System in Minutes Enslow Publishing, LLC

A #1 New York Times bestseller by Kim Edwards, *The Memory Keeper's Daughter* is a brilliantly crafted novel of parallel lives, familial secrets, and the redemptive power of love. Kim Edwards's stunning novel begins on a winter night in 1964 in Lexington, Kentucky, when a blizzard forces Dr. David Henry to deliver his own

twins. His son, born first, is perfectly healthy, but the doctor immediately recognizes that his daughter has Down syndrome. Rationalizing it as a need to protect Norah, his wife, he makes a split second decision that will alter all of their lives forever. He asks his nurse, Caroline, to take the baby away to an institution and never to reveal the secret. Instead, she disappears into another city to raise the child herself. So begins this beautifully told story that unfolds over a quarter of a century—in which these two families, ignorant of each other, are yet bound by the fateful decision made that winter night long ago. A family drama, *The Memory Keeper's Daughter* explores every mother's silent fear: What would happen if you lost your child and she grew up without you? It is also an astonishing tale of love and how the mysterious ties that hold a family together help us survive the heartache that occurs when long-buried secrets are finally uncovered.

Spaceflight Prelude Books

Join us on the most amazing voyage imaginable: travel over 13.7-billion light years and experience the awesome sights, spectacles and breathtaking scale of the cosmos. Along the way you will visit planets, moons, asteroids, stars, nebulae, white

dwarfs, black holes, dark matter and other phenomena that populate the heavens. Data streams, digital readouts and unique graphic interfaces, such as 'Image Enhance', 'Atmosphere Analysis' and 'Surface Detail' provide intrepid cosmic voyagers with a wealth of facts, information and data about all the celestial bodies they encounter - as well as some of the deadly hazards that lurk in outer space and how to avoid them. Printed in dramatic over-sized format and packed with more than 300 of science's most spectacular photographs, *Across the Cosmos* is quite simply the biggest, best and most exciting children's space book ever published. *Across the Cosmos* is specifically designed and written for children aged 7+ years. The sections are: *Across the Solar System* *Through the Milky Way* *Beyond our Galaxy* [Science in Seconds](#) Quercus Publishing

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.

Welbeck Publishing

A complete introduction to the heavens through the tales of these 21 key stars.

What Shape is Space? Welbeck Publishing Group

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.

Reactions Dk Pub

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.

Space Flight Hardie Grant Publishing
Physics in Minutes Quercus Publishing

Fartology Marshall Cavendish
Honoring the fiftieth anniversary of the first space flight, a visual study of human ventures into outer space covers the U.S. and Soviet space race, as well as the efforts of other countries around the world, chronicling the development of space technology, future planned space missions, and key accomplishments, ranging from the first satellite launch to the moon landing.

The Memory Keeper's Daughter Quercus
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.

Mars Quercus

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.

[Youniverse: A Short Guide to Modern Science](#)
Mini Encyclopedia

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.

Stars and Planets John Wiley & Sons

"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.

A History of the Universe in 21 Stars: (and Three Imposters) Quercus 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 fart 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.

The Human Body in Minutes 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.

Field Guide to Fantastic Creatures
Marshall Cavendish

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.