

# Physics In Minutes Giles Sparrow

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A History of the Universe in 21 Stars: (and Three Imposters) Quercus Publishing  
Stars and Planets is a 300-entry mini encyclopedia of the universe that surrounds our world.

Physics in Minutes Prelude Books

Physics in MinutesQuercus Publishing

The Periodic Table in Minutes Firefly Books Limited

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.

Youniverse: A Short Guide to Modern Science 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.

Fartology Quercus

Mars has always fascinated humanity and the findings of the past decade have revolutionized ideas about our nearest neighbour - revealing its watery past and geological similarity to Earth. This volume, filled with the latest and most magnificent images to be sent back from Curiosity, will walk you in the footsteps of the NASA probes and rovers that have been surveying the planet from 1964 until the present day. Experience its other-worldly beauty as you hover over sinister dust devils, immense icecaps and textured rock formations. Mars charts an incredible course across this unfamiliar planet, depicting all sides, seasons, channels and chasms, from the North Pole to the Southern Highlands. Witness the soaring heights of Olympus Mons - the tallest volcano in the Solar System - watch a giant dust storm tear

through the canyons of the Valles Marineris, and explore the broad valleys of Chryse Planitia, scarred from catastrophic floods. Detailed and accessible essays explain how Mars was formed, shedding light on its internal and external structure, weather systems and unique geographical features, as well as on the compelling evidence of water and microscopic life. Each image is accompanied by a caption that explains in unparalleled detail the abstract patterns and peculiar geology that form this majestic planet. Featuring over 200 spectacular photographs and informative colour diagrams, an atlas of the surface and details of the most recent scientific discoveries, Mars is the perfect introduction to the Red Planet.

Atlas of the Constellations Book Sales

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.

Iron Physics in Minutes

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.

Constellations Quercus

Instant Physics pulls together all the pivotal physics knowledge and thought into one concise volume. Each page contains a discrete ""cheat sheet"", which tells you the most important facts in bite-sized chunks, meaning you can become an expert in an instant. From black holes and black body radiation to telescopes, microscopes, quantum mechanics and general relativity, every key figure, discovery or idea is explained with succinct and lively text and graphics. Perfect for the knowledge hungry and time poor, this collection of graphic-led lessons makes psychology interesting and accessible. Everything you need to know is here.

Voyage Across the Cosmos Dk Pub

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, Ptolemy, 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.

#### Economics in Minutes Penguin

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 Planets Quercus Publishing

The Illustrated Encyclopedia of Space & Space Exploration will inspire and educate anyone interested in finding out more about the Universe.

#### The Cosmic Gallery Quercus Books

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 Human Body in Minutes 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.

#### Numbers 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.

#### Instant Physics Oxford University Press

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.

#### Junk DNA Hardie Grant Publishing

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

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designed and written for children aged 7+ years. The sections are: Across the Solar System Through the Milky Way Beyond our Galaxy

The Stargazer's Handbook Quercus

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.

Solar System in Minutes John Wiley & Sons

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.

Hubble Quercus Publishing

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.

Stars and Planets Mini Encyclopedia

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' 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.