

Cosmos Giles Sparrow

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Solar System in Minutes

Penguin

'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.

Stars and Planets Penguin

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.

Cosmos National Geographic 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.

Mars Mini Encyclopedia

When the night sky transforms terrestrial landscapes into otherworldly works of art, you need to know the professional techniques for capturing your own nocturnal masterpieces. This complete course combines the classic beauty of landscapes with the vast, exotic universe of astrophotography, using tried-and-tested methods that guarantee stellar results. You'll learn what gear you need and how to make the most of it; clever tricks for squeezing out every drop of image quality from a pitch-black scene; and straightforward post-production workflows to create compelling compositions of the cosmos.

The Illustrated Encyclopedia of Space & Space Exploration Enslow Publishing, LLC

Now with removable planisphere! Starfinder lays out the universe clearly, highlighting the signposts in the sky and explaining the cosmology of the stars. Discover the wonders of the night sky with

up-to-date information about the universe, including monthly charts to both the northern and southern hemisphere, and a section on observing the Moon, planets, and other bodies of the solar system.

What Shape Is Space? Quercus Books

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

The Big Book of Science Quercus

A new kind of astronomy book, "The Universe and How To See It" combines stunning photographs and clear explanations of the science behind celestial phenomena with a practical guide to viewing the vast, glorious night sky.

Includes detailed maps and a comprehensive index. 300 photos.

Dark Matter and Dark Energy Arcturus Publishing
Explores the science behind planets, stars, galaxies, and other celestial phenomena. Includes more than 60 experiments and projects.

What's Eating the Universe? Quercus

The universe stretches at least 130 billion trillion kilometers in every direction around us. The magnificent vault of stars is gloriously on display in this deluxe, slip-cased edition--a perfect gift for star-lovers of all ages. Cosmos makes sense of this dizzying celestial panorama by exploring it one step at a time and by illustrating the planets, moons, stars, nebulae, white dwarfs, black holes and other exotica that populate the heavens with over 450 of the most spectacular photographs and illustrations. Updated to take into account the latest developments in cosmic exploration, it features the Curiosity rover on Mars, the Huygens probe that has reached Saturn's moons, and the continuing search for extra-solar planets that might support life. It also includes the most up-to-date images from across the cosmos: pictures from the Hubble Ultra Deep Field telescope showing the furthest reaches of our galaxy, as well as our nearest planets in breathtaking detail. The book has also been enhanced with exciting Aurasma technology, allowing you to unlock moving video footage from images in the book with most web-enabled smartphones or tablets. Simply download and open the free QuercusEye app, and look for pictures with the QuercusEye icon.

Hover the camera above the image so the picture fits the screen, and watch the wonders of the universe unfold. (Pages 12, 37, 41, 72, 84, 109, 126-127, 138, 146, 152, 164, 190 and 210).

Cosmology 's Century Firefly Books Limited
Physics in Minutes covers everything you need to know about physics, condensed into 200 key topics. Each idea is explained in clear, accessible language, building from the basics, such as mechanics, waves and particles, to more complex topics, including neutrinos, string theory and dark matter. Based on scientific research proving that the brain best absorbs information visually, illustrations accompany the text to aid quick comprehension and easy recollection. This convenient and compact reference book is ideal for anyone interested in how our world works. Chapters include: Newton's Laws of Motion, Schrödinger's cat, Magnetism, Superconductivity, Fission and fusion, Higgs Boson, Entropy, Dark matter.

Starfinder Penguin

"A fully up-to-date and strikingly beautiful voyage through the wonders of our Solar System."--Back cover

Mars Hachette UK

Presents photographs of the Universe with close-ups of the planets, sun, and stars.

A History of the Universe in 21 Stars Quercus Publishing

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

The Universe Hachette UK

Spin to Survive: Deep Space Danger, the fourth in the series, launches you on your most daring adventure yet: surviving on board a spaceship heading for disaster.

Cosmos Quercus Publishing

Since the dawn of humankind, people have looked upward to the heavens and tried to understand them. This encyclopedia takes you on an expedition through time and space to discover our place in the universe. We invite you to take a journey through the wonders of the universe. Explore the cosmos, from planets to black holes, the Big Bang, and everything in-between! Get ready to discover the story of the universe one page at a time! This educational book for young adults will launch you on a wild trip through the cosmos and the incredible discoveries throughout history. Filled to the brim with beautifully illustrated flowcharts, graphics, and jargon-free language, The Astronomy Book breaks down hard-to-grasp concepts to guide you in understanding almost 100 big astronomical ideas. Big Ideas How do we measure the universe? Where is the event horizon? What is dark matter? Now you can find out all the answers to these questions and so much more in this inquisitive book about

our universe! Using incredibly clever visual learning devices like step-by-step diagrams, you'll learn more about captivating topics from the Copernican Revolution. Dive into the mind-boggling theories of recent science in a user-friendly format that makes the information easy to follow. Explore the biographies, theories, and discoveries of key astronomers through the ages such as Ptolemy, Galileo, Newton, Hubble, and Hawking. To infinity and beyond! Journey through space and time with us: • From Myth to Science 600 BCE – 1550 CE • The Telescope Revolution 1550 – 1750 • Uranus to Neptune 1750 – 1850 • The Rise of Astrophysics 1850 – 1915 • Atom, Stars, And Galaxies 1915 – 1950 • New Windows on The Universe 1950 – 1917 • The Triumph of Technology 1975 – Present The Series Simply Explained With over 7 million copies sold worldwide to date, The Astronomy Book is part of the award-winning Big Ideas Simply Explained series from DK Books. It uses innovative graphics along with engaging writing to make complex subjects easier to understand. Shortlisted: A Young Adult Library Services Association Outstanding Books for the College Bound and Lifelong Learners list selection A Mom's Choice Awards® Honoring Excellence Gold Seal of Approval for Young Adult Books A Parents' Choice Gold Award winner
The Space Book Quercus
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
Cosmos 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.

Cosmos Penguin

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.

The Planets Quercus

Combining the latest scientific advances with storytelling skills unmatched in the cosmos, an award-winning astrophysicist and popular writer leads us on a tour of some of the greatest mysteries of our universe. In the constellation of Eridanus, there lurks a cosmic mystery: It's as if something has taken a huge bite out of the universe. But what is the culprit? The hole in the universe is just one of many puzzles keeping cosmologists busy. Supermassive black holes, bubbles of nothingness gobbling up space, monster universes swallowing others—these and many other bizarre ideas are being pursued by scientists. Due to breathtaking

progress in astronomy, the history of our universe is now better understood than the history of our own planet. But these advances have uncovered some startling riddles. In this electrifying new book, renowned cosmologist and author Paul Davies lucidly explains what we know about the cosmos and its enigmas, exploring the tantalizing—and sometimes terrifying—possibilities that lie before us. As Davies guides us through the audacious research offering mind-bending solutions to these and other mysteries, he leads us up to the greatest outstanding conundrum of all: Why does the universe even exist in the first place? And how did a system of mindless, purposeless particles manage to bring forth conscious, thinking beings? Filled with wit and wonder, *What's Eating the Universe?* is a dazzling tour of cosmic questions, sure to entertain, enchant, and inspire us all.

Mars Icon Books

Dava Sobel's *The Glass Universe* will be available from Viking in December 2016 With her bestsellers *Longitude* and *Galileo's Daughter*, Dava Sobel introduced readers to her rare gift for weaving complex scientific concepts into a compelling narrative. Now Sobel brings her full talents to bear on what is perhaps her most ambitious topic to date—the planets of our solar system. Sobel explores the origins and oddities of the planets through the lens of popular culture, from astrology, mythology, and science fiction to art, music, poetry, biography, and history. Written in her characteristically graceful prose, *The Planets* is a stunningly original celebration of our solar system and offers a distinctive view of our place in the universe. * A New York Times extended bestseller * A Featured Alternate of the Book-of-the-Month Club, History Book Club, Scientific American Book Club, and Natural Science Book Club * Includes 11 full-color illustrations by artist Lynette R. Cook "[The Planets] lets us fall in love with the heavens all over again." -The New York Times Book Review "Playful . . . lyrical . . . a guided tour so imaginative that we forget we're being educated as we're being entertained." -Newsweek " [Sobel] has outdone her extraordinary talent for keeping readers enthralled. . . . *Longitude* and *Galileo's Daughter* were exciting enough, but *The Planets* has a charm of its own A splendid and enticing book." -San Francisco Chronicle "A sublime journey. [Sobel's] writing . . . is as bright as the sun and its thinking as star-studded as the cosmos." -The Atlanta Journal-Constitution "An incantatory serenade to the Solar System. Grade A-" -Entertainment Weekly "Like Sobel's [*Longitude* and *Galileo's Daughter*] . . . [*The Planets*] combines masterful storytelling with clear, engaging explanations of the essential scientific facts." -Physics World