

# Cosmos Giles Sparrow

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Cosmos Quercus

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. Cosmos Princeton University Press 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. The Cosmic Gallery Quercus Publishing 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, Schr ö dinger's cat, Magnetism, Superconductivity, Fission and fusion, Higgs Boson, Entropy, Dark matter. Wonders of the Solar System Text Only Quercus 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

#### Starfinder Penguin

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.

#### The Night Sky Enslow Publishing, LLC

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

#### Mars Quercus Books

'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.

#### Phenomena Penguin

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 Quercus

The Sunday Times Bestseller In Wonders of the Solar System – the book of the acclaimed BBC TV series – Professor Brian Cox will take us on a journey of discovery where alien worlds from your imagination become places we can see, feel and visit.

#### The Planets Ilex Press

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.

#### Mars Firefly Books Limited

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.

#### What's Eating the Universe? HarperCollins UK

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

#### Hubble 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.

#### The Astronomy Book Hachette UK

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.

Smithsonian: Spaceflight, 2nd Edition Arcturus Children's Reference

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 Universe Today Ultimate Guide to Viewing The Cosmos Hachette UK

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.

Cosmos Icon Books

Lavishly illustrated volume revealing the intricacies of a 1742 map of the cosmos. The expansive and intricate Atlas Coelestis, created by Johann Doppelmayr in 1742, set out to record everything known about astronomy at the time, covering constellations, planets, moons, comets, and more, all rendered in exquisite detail. Through stunning

illustrations, historical notes, and scientific explanations, Phenomena contextualizes Doppelmayr's atlas and creates a spectacular handbook to the heavens. Phenomena begins by introducing Doppelmayr's life and work, placing his extraordinary cosmic atlas in the context of discoveries made in the Renaissance and Enlightenment and highlighting the significance of its publication. This oversized book presents thirty beautifully illustrated and richly annotated plates, covering all the fundamentals of astronomy--from the dimensions of the solar system to the phases of the moon and the courses of comets. Each plate is accompanied by expert analysis from astronomer Giles Sparrow, who deftly presents Doppelmayr's references and cosmological work to a modern audience. Each plate is carefully deconstructed, isolating key stars, planets, orbits, and moons for in-depth exploration. A conclusion reflects on the development of astronomy since the publication of the Atlas and traces the course of the science up to the present day. Following the conclusion is a timeline of key discoveries from ancient times onward along with short biographies of the key players in this history.

The Universe Union Square + ORM

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.

The Illustrated Encyclopedia of Space & Space Exploration Mini Encyclopedia

From our own solar system to the edges of the universe, 50 Astronomy Ideas You Really Need to Know is your introduction to the most important concepts, discoveries and mysteries in astronomy. How did the universe begin? Where did the Moon come from? What

happens in the heart of a black hole? Why are gravitational waves so significant? And is there life elsewhere in the cosmos? In fifty fascinating essays covering the central ideas of astronomy and cosmology, accompanied by diagrams, definitions of essential terms and timelines of key discoveries, this book examines the nature and variety of our universe - the life cycle of stars, the formation of planets, the structure of galaxies and the puzzles of dark matter and the multiverse. Expansive and illuminating, 50 Astronomy Ideas You Really Need to Know is the complete guide to the birth, life and possible death of the cosmos.

Cosmos Close-up Quercus

RETURNING TO TELEVISION AS AN ALL-NEW MINISERIES ON FOX Cosmos is one of the bestselling science books of all time. In clear-eyed prose, Sagan reveals a jewel-like blue world inhabited by a life form that is just beginning to discover its own identity and to venture into the vast ocean of space. Featuring a new Introduction by Sagan 's collaborator, Ann Druyan, full color illustrations, and a new Foreword by astrophysicist Neil deGrasse Tyson, Cosmos retraces the fourteen billion years of cosmic evolution that have transformed matter into consciousness, exploring such topics as the origin of life, the human brain, Egyptian hieroglyphics, spacecraft missions, the death of the Sun, the evolution of galaxies, and the forces and individuals who helped to shape modern science. Praise for Cosmos “ Magnificent . . . With a lyrical literary style, and a range that touches almost all aspects of human knowledge, Cosmos often seems too good to be true. ” —The Plain Dealer “ Sagan is an astronomer with one eye on the stars, another on history, and a third—his mind 's—on the human condition. ” —Newsday “ Brilliant in its scope and provocative in its suggestions . . . shimmers with a sense of wonder. ” —The Miami Herald “ Sagan dazzles the mind with the miracle of our survival, framed by the stately galaxies of space. ” —Cosmopolitan “ Enticing . . . iridescent . . . imaginatively illustrated. ” —The New York Times Book Review