Cosmos Giles Sparrow

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A World Without Time Enslow Publishing, LLC
Discusses the origin, discovery, special characteristics, and uses of carbon.
Cosmos Princeton University Press
A tribute to the scientific contributions of Uranus planet discoverer William Herschel and his pioneering sister, Caroline, describes their establishment of surveying techniques that are still in use today, Caroline's cataloguing of nebulae, and William's discovery of infrared radiation. 20,000 first printing.
Astrobiology Penguin
The astonishing science of neutron stars and the stories of the scientists who study them. Neutron stars are as

bewildering as they are elusive. The remnants of exploded stellar giants, they are tiny, merely twenty kilometers across, and incredibly dense. One teaspoon of a neutron star would weigh several million tons. They can spin up to a thousand times per second, they possess the strongest magnetic fields known in nature, and they may be the source of the most powerful explosions in the universe. Through vivid storytelling and on-site reporting from observatories all over the world, Neutron Stars offers an engaging account of these still-mysterious objects. Award-winning science journalist Katia Moskvitch takes readers from the vast Atacama Desert to the arid plains of South Africa to visit the magnificent radio telescopes and brilliant scientists responsible for our knowledge of neutron stars. She recounts the exhilarating discoveries, frustrating disappointments, and heated controversies of the past several decades and explains cutting-edge research into such phenomena as colliding neutron stars and fast radio bursts: extremely powerful but ultra-short flashes in space that scientists are still struggling to understand. She also shows how neutron stars have advanced our broader understanding of the universe—shedding light on topics such as dark matter, black holes, general relativity, and the origins of heavy elements like gold and platinum—and how we might one day use these cosmic beacons to guide interstellar travel. With clarity and passion, Moskvitch describes what we are learning at the boundaries of astronomy, where stars have life beyond death.

Dark Matter and

Dark Energy Quercus CosmosQuercus *Cosmos* Mini Encyclopedia 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 SystemThrough the Milky WayBeyond our Galaxy *Hubble* Quercus Books 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.

Carbon Welbeck Publishing

A landmark in popular science publishing, Cosmos is a giant-format account of the ultimate journey - a 13.7-billion-light-year- (or 130-billion-trillion kilometre-) voyage from our world, past planets, moons, stars, nebulae, white dwarfs and black holes, right through the to the edge of the universe and the beginning of time. Including some of science's most spectacular photographs, an accessible introduction by Dava Sobel and commentary by Giles Sparrow, this luxurious hand-finished and slipcased volume will fascinate and inform in equal measure.

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

Extraterrestrial life is a common theme in science fiction, but is it a

serious prospect in the real world? Astrobiology is the emerging field of science that seeks to answer this question. The possibility of life elsewhere in the cosmos is one of the most profound subjects that human beings can ponder. Astrophysicist Andrew May gives an expert overview of our current state of knowledge, looking at how life started on Earth, the tell-tale 'signatures' it produces, and how such signatures might be detected elsewhere in the Solar System or on the many 'exoplanets' now being discovered by the Kepler and TESS missions. Along the way the book addresses key questions such as the riddle of Fermi's paradox ('Where is everybody?') and the crucial role of DNA and water – they're essential to 'life as we know it', but is the same true of alien life? And the really big question: when we eventually find extraterrestrials, will they be friendly or hostile? Physics in Minutes The Experiment In 1942, the logician Kurt Godel and Albert Einstein became close friends; they walked to and from their offices every day, exchanging ideas about science, philosophy, politics, and the lost world of German science. By 1949, Godel had produced a remarkable proof: In any universe described by the Theory of Relativity, time cannot exist. Einstein endorsed this result reluctantly but he could find no way to refute it, since then, neither has anyone else. Yet cosmologists and philosophers alike have proceeded

as if this discovery was never made. In A World Without Time, Palle Yourgrau sets out to restore Godel to his rightful place in history, telling the story of two magnificent minds put on the shelf by the scientific fashions of their day, and attempts to rescue the brilliant work they did together.

Cosmos The Rosen Publishing Group, Inc

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.

Cosmos 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.

Space Arcturus Children's Reference

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.

The Stargazer's Handbook Quercus

Get ready for the most incredible safari imaginable: a journey around the globe and throughout history to discover an array of astonishing creatures that almost defy explanation. This fascinating field guide surveys the globe in search of mysterious animals in remote corners of the world, and reveals the truth behind the creatures of myth and legend that have been passed down from generation to generation. Prepare to meet Biblical beasts such as Behemoth and Leviathan, and Mediterranean monsters like the ferocious Minotaur, and Medusa with her deadly stare. In northern Europe you will encounter the famous western dragon and its close relative the wyvern, as well mischievous fairies, gremlins and pixies and, of course, the Loch Ness Monster. Investigate the evidence for

sightings of Bigfoot and giant serpents in the Americas; track the mysterious Kongamoto and Ennedi tiger in Africa and do your best to not to disturb the lethal Mongolian death worm or the reclusive Yeti in Asia and beyond. Packed with spectacular computer-generated images, the very latest research and theories about each animal, and distribution maps, tracker tips and advice on how to protect yourself from these fearsome beasts, the pages of this book reveal the world of fabulous creatures and monsters as you have never seen them before.

The Astronomy Book Faber & Faber

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

Voyage Across the Cosmos Quercus

Examines the planet Mars, discussing its surface, climate, formation, and exploration.

The Story of the Universe in 100 Stars Penguin

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.

Field Guide to Fantastic Creatures Hachette UK

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

The Planets Firefly Books Limited

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

Mars Cosmos

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.

50 Astronomy Ideas You Really Need to Know W. W. Norton & Company

Travel into space with this comprehensive visual encyclopedia of the cosmos, from the Big Bang to the Extremely Large Telescope. Full of galactic facts, dramatic photographs, and CGI artwork, and based on the latest astronomical research, this is a definitive guide to our Solar System, the Universe, and beyond... Accessible, entertaining, and authoritative, this comprehensive visual encyclopedia is the perfect introduction to the world of space and astronomy for children aged eight and above.