
Astronomy Science And Its Secrets

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VALENTINA BRYANT

The Secrets of Time and Space Simon and Schuster

"Discusses the planet Uranus, including observations by ancient cultures, current knowledge of Uranus, and plans for future scientific research and space exploration"--

Brave New Universe Pegasus Books

The discovery of the New World raised many questions for early modern scientists: What did these lands contain? Where did they lie in relation to Europe? Who lived there, and what were their inhabitants like? Imperial expansion necessitated changes in the way scientific knowledge was gathered, and Spanish cosmographers in particular were charged with turning their observations of the New World into a body of knowledge that could be used for governing the largest empire the world had ever known. As Maria M. Portuondo here shows, this cosmographic knowledge had considerable strategic, defensive, and monetary value that royal scientists were charged with

safeguarding from foreign and internal enemies. Cosmography was thus a secret science, but despite the limited dissemination of this body of knowledge, royal cosmographers applied alternative epistemologies and new methodologies that changed the discipline, and, in the process, how Europeans understood the natural world.

The Everything Astronomy Book National Geographic Books

Like all books on the subject, *Our Universe: A Journey into Mystery* is full of images of exploding stars and colliding galaxies. It's all very nice, but don't you want more than just another "science on parade" book? There are powers and distances beyond human comprehension. Darkness surrounds us, and most of this place in which we live is not available to our senses. There's a much more profound story. Everything we know comes from the Universe, but what we don't know is alluring. This book aims to unravel the mysteries of the Universe--to answer our questions about meaning and purpose. We have learned more about the Universe in the past 25 years than in all of recorded history. Thanks to computers, the internet, and the availability of telescopes, it's now possible to tell the story of the Universe in 21st-century language that any interested layman can

follow. Using these tools, the secrets of this extraordinary place are laid bare. The Universe is ready to answer our questions. We are prepared to listen. Come along--journey into Mystery. This is the story I always wanted to write. It is hopefully the story you are looking to discover.

Pluto's Secret Princeton University Press

From an award-winning author, astronomer, and anthropologist, an exploration of the scientific and cultural significance of the mesmerizing cosmic display. Since the first humans looked up and saw the sun swallowed by darkness, our species has been captivated by solar eclipses. Astronomer and anthropologist Anthony Aveni explains the history and culture surrounding solar eclipses, from prehistoric Stonehenge to Babylonian creation myths, to a confirmation of Einstein's theory of general relativity, to a spectacle that left New York City in the moon's shadow, to future eclipses that will capture human imaginations. In one accessible and engaging read, Aveni explains the science behind the phenomenon, tracks eclipses across the ancient world, and examines the roles of solar eclipses in modern times to reveal the profound effects these cosmic events have had on human history. Colored by his own experiences—Aveni has witnessed eight total solar eclipses in

his lifetime—his account of astronomy’s most storied phenomenon will enthrall anyone who has looked up at the sky with wonder. “Aveni’s authoritative but accessible text is the clearest statement of the way our perception of eclipses has changed over the centuries.” —Stuart Clark, *New Scientist* “Authoritative and engaging.” —Marcelo Gleiser, NPR’s 13.7 “A recommended way to share the spirit of the occasion.” —Laurence A. Marschall, *Natural History* magazine “Everything you need to enjoy a solar eclipse—and even predict one, just like the Babylonians did! Aveni’s entertaining explorations show the very different impacts eclipses have had on past and present cultures.” —David DeVorkin, National Air and Space Museum, Smithsonian Institution
[Science Secrets](#) Yale University Press

This illustrated history of astronomy features both photographs and historical and contemporary documents from the archives of astronomical institutions, including NASA.

[Neutrino Hunters](#) Millbrook Press

Travel to the furthest reaches of the Universe and visit 100 remarkable objects along the way with this stunning space book for curious kids aged 6-8. Space is so much bigger than young minds can fathom and there is always more to learn. The *Mysteries of the Universe* is a stunning space encyclopedia for young readers to explore, with reference pages packed with fascinating information, little learners will be captivated as they journey through the vastness of the Universe. From planets and asteroids to black holes and galaxies, every page of this enthralling space book reveals the secrets behind more than 100 celestial objects, and will inspire youngsters as they journey through the vastness of the Universe. Each celestial body is shown both photographically and illustrated, and children will love poring over the detailed close-up images. Get ready to explore fun facts and exciting new scientific discoveries as this best-selling picture book will illuminate imaginations and spark curious minds to explore the vastness of space. The engaging storybook-style descriptions and simple text shed a light on facts, myths, and key discoveries about the universe, perfect for children aged 6-8 to explore the wonders of our solar system and beyond. Celebrate your child’s curiosity as they: - Explore Beautiful illustrations and incredible photography that showcase the mysteries of space. - Reveal Engaging storybook-style descriptions that explain key discoveries about the universe - Uncover 100 remarkable objects in the cosmos. This space encyclopedia for children is the perfect blend of storybook style text with out of this world illustrations which makes it a fantastic space book for children who can't get enough of the solar system. Encourage early learners to go on a journey to explore a world of information, making this the ideal first reference book for kids aged 6-8 to enjoy for hours on end, whether reading with the family or reading alone, this fun fact book also doubles up as the perfect gift for curious kids who love to learn. Explore the vastness of space whilst uncovering: -Stunning Jacket Detail: gold foil, holographic foil & metallic gold edges -Striking photography & illustrations inside - A beautiful book for the whole family to treasure -A quality gift to be passed down through the generations More in the Series *Mysteries of the Universe* is part of the beautiful and informative Anthology series. Complete the series and nurture your child's curiosity as they explore the natural world with *The Wonders of Nature* or let them walk with the dinosaurs who ruled the earth before them in *Dinosaurs and other Prehistoric Life*.

[Astronomical](#) University of Pittsburgh Pre

Secrets in the Skies delves deep into the life and discoveries of the world's most famous stargazer, Galileo Galilei, and the star-studded history of astronomy, from our prehistoric ancestors to the work of today's most brilliant scientists. In this stunningly detailed visual retelling of the birth of science, the solar system is brought to life in glorious full-colour, with breathtaking illustrations by James Weston Lewis. From his early days as a young boy in Pisa, to his fiery battles with the Roman Catholic Church, readers follow the remarkable journey undertaken by Galileo in his search for truth. As the pages turn, you can witness the ancient origins of celestial examinations, Galileo's ground-breaking invention of the telescope, his controversial trials before the Inquisition, and the crucial discoveries of the stargazer's final days.

[Celestial Sleuth](#) Penguin

"The *Secrets of the Universe: Exploring the Great Unknown*" is a book that delves into the most fascinating and perplexing mysteries of the universe. It is structured around 20 chapters, each devoted to one of the biggest questions that remain unanswered in the field of astronomy and physics. From the nature of dark matter and dark energy to the enigma of black holes, the book takes readers on a journey through the most fascinating puzzles of the cosmos. Written in a clear and accessible style, the book provides an overview of the latest research and theories in the field, as well as the historical context that has led to our current understanding. The book concludes by

reflecting on the implications of our evolving understanding of the universe for the future of humanity.

[Astronomy](#) Abrams

In this fresh list, Stephen James O'Meara presents 109 new objects for stargazers to observe. The *Secret Deep* list contains many exceptional objects, including a planetary nebula whose last thermal pulse produced a circumstellar shell similar to the one expected in the final days of our Sun's life; a piece of the only supernova remnant known visible to the unaided eye; the flattest galaxy known; the largest edge-on galaxy in the heavens; the brightest quasar; and the companion star to one of the first black hole candidates ever discovered. Each object is accompanied by beautiful photographs and sketches, original finder charts, visual histories and up-to-date astrophysical information to enrich the observing experience. Featuring galaxies, clusters and nebulae not covered in other *Deep-Sky Companions* books, this is a wonderful addition to the series and an essential guide for any deep-sky observer.

[The Secrets of Time and Space](#) Gramercy

An awe-inspiring, unforgettable journey of scientific exploration from Brian Cox and Jeff Forshaw, the international bestselling authors of *Why Does E=MC²?* and *The Quantum Universe*, with 55 black-&-white and 45 full-color pages featuring photographs, diagrams, maps, tables, and graphs We dare to imagine a time before the Big Bang, when the entire universe was compressed into a space smaller than an atom. And now, as Brian Cox and Jeff Forshaw show, we can do more than imagine: we can understand. *Universal* takes us on an epic journey of scientific exploration. It reveals how we can all come to grips with some of the most fundamental questions about our Earth, Sun, and solar system--and the star-filled galaxies beyond. How big is our solar system? How quickly is space expanding? How big is the universe? What is it made of? Some of these questions can be answered on the basis of observations you can make in your own backyard. Other answers draw on the astonishing information now being gathered by teams of astronomers operating at the frontiers of the known universe. At the heart of all this lies the scientific method. Science reveals a deeper beauty and connects us to each other, to our world, and to our universe. Science reaches out into the unknown. As *Universal* demonstrates, if we dare to imagine, we can do the same.

[Universal](#) Princeton University Press

Guiding us through Einstein's theory of relativity, quantum mechanics, and string theory, *Astronomical* explains the baffling mysteries of the cosmos: from alien life to the zodiac; from white holes to wormholes; from quasars to quark stars—all within a narrative that is as entertaining as it is edifying. Does the Big Bang prove the existence of God? What's the Universe expanding into? Is Earth the only planet which supports life? Space is the biggest, oldest, hottest, coldest, strangest thing a human can study. It's no surprise then, that the weirdest facts in science (not to mention the weirdest scientists themselves) are found in astrophysics and cosmology. If you're looking for instructions on how to set up your grandad's telescope this book probably isn't for you. In *Astronomical*, Tim James takes us on a tour of the known (and unknown) universe, focusing on the most-mind boggling stuff we've come across, as well as unpacking the latest theories about what's really going on out there. Guiding us through Einstein's relativity, quantum mechanics and string theory, *Astronomical* delves into the baffling corners of the cosmos and tackles the biggest mysteries we face: from alien life to the zodiac; from white holes to wormholes; from quasars to quark stars. This is the science of space at its absolute strangest.

[The Secret of the Universe](#) DK Publishing (Dorling Kindersley)

This fascinating narrative recounts the history of astronomy and, with more than 100 full-color illustrations, it shows readers how to find the planets and constellations in the night sky. In ancient times, people thought that the Sun, Moon, and stars were gods. They recorded their movements and imagined that the stars made pictures in the sky. The Greeks and the Romans related these "pictures" of animals and men--or constellations--to their legends. They also identified planets and named them for their gods--Venus, Mars, Saturn, and Jupiter. Their observations marked the first step in the development of astronomy, which today is a sophisticated science. Modern astronomers have followed the tradition of naming heavenly bodies after ancient gods. For instance, the solar system's outer planets weren't identified until after the telescope's invention, but with their discoveries they were named after Uranus, a Greek god of the sky . . . Neptune, the Roman god of the sea . . . and Pluto, the Roman god of the underworld. The author recounts the legends connected with many constellations, including Aquarius, Aries, Cancer, Orion, and others. This beautifully illustrated book helps readers navigate their way around the night sky as they learn the significance of heavenly bodies' names. Color photos and illustrations throughout.

[The Secrets of the Universe](#) Cassell

An insider's guide to astronomy reveals everything you need to know about the planets, their satellites, and our place in the solar system. We have the impression that the solar system is perfectly regular like a clock or a planetarium instrument. On a short timescale it is. But, seen in a longer perspective, the planets, and their satellites, have exciting lives, full of events. For example, did you know that Saturn's moon, Titan, boasts lakes which contain liquid methane surrounded by soaring hills and valleys, exactly as the earth did before life evolved on our fragile planet? Or that Mercury is the shyest planet? Or, that Mars's biggest volcano is one hundred times the size of Earth's, or that its biggest canyon is ten times the depth of the Grand Canyon, or that it wasn't always red, but blue? The culmination of a lifetime of astronomy and wonder, Paul Murdin's enchanting new book reveals everything you ever wanted to know about the planets, their satellites, and our place in the solar system.

[Lonely Hearts of the Cosmos](#) Springer

People, children especially, have been baffled, bewildered, and even outraged by the fact that Pluto is no longer called a planet. Through whimsical artwork and an entertaining dialogue format, *Pluto's Secret* explains the true story of this distant world. Providing a history of the small, icy world from its discovery and naming to its recent reclassification, this book presents a fascinating look at how scientists organize and classify our solar system as they gain new insights into how it works and what types of things exist within it. The book includes a glossary and bibliography. Praise for *Pluto's Secret* "Pairing a lighthearted narrative in a hand-lettered+style typeface with informally drawn cartoon illustrations, this lively tale of astronomical revelations begins with the search for Planet X.†? —Kirkus Reviews "This picture book offers a fresh, positive perspective on Pluto, showing that its change of status is not a demotion but a correction." —Booklist "Light-hearted imagining of a gregarious Pluto.†? —Bulletin of the Center for Children's Books "Fun reading... The book provides a factual history of our faraway 'dwarf,' and on its companion icy worlds, and on the discovery of Kuiper-like bands around other stars." —School Library Journal Award New York Public Library's annual Children's Books list: 100 Titles for Reading and Sharing 2013

[The Secrets of Jupiter](#) Independently Published

The incredibly small bits of matter we call neutrinos may hold the secret to why antimatter is so rare, how mighty stars explode as supernovas and what the universe was like just seconds after the big bang. They even illuminate the inner workings of our own planet. For more than eighty years, adventurous minds from around the world have been chasing these ghostly particles, trillions of which pass through our bodies every second. Extremely elusive and difficult to pin down, neutrinos are not unlike the brilliant and eccentric scientists who doggedly pursue them. Ray Jayawardhana recounts in *Neutrino Hunters* a captivating saga of scientific discovery and celebrates a glorious human quest, revealing why the next decade of neutrino hunting could redefine how we think about physics, cosmology and our lives on Earth.

[The Great Space Case](#) University of Chicago Press

This book describes the history of the progress made in auroral science and magnetospheric physics by providing examples of ideas, controversies, struggles, acceptance, and success in some instances. The author, a distinguished auroral scientist, fully describes his experiences in characterizing and explaining auroral phenomena. The volume also includes beautiful full-color photos of the aurora.

[The Handy Astronomy Answer Book](#) Springer Science & Business Media

Journey through time and space with the greatest astronomers in history. Astronomy is one of the oldest of all the sciences. And yet, its history is also so much more than the history of a science, reflecting our entire culture and providing insight into the evolution of humankind's ideas and ideals over the centuries. This fascinating book tells the amazing story of the development of astronomy, through the key characters in its history from Copernicus to Hubble and Halley, the excitement of new discoveries and the ways in which the history of the skies has affected our lives and how we look at the planet on which we live. *The Story of Astronomy* celebrates changing perspectives (from the Ancient Greeks to the latest scientific advances) as different cultures, philosophers and scientists sought to come to terms with their, and earth's, place in the Cosmos. Exhaustively researched and containing interviews with many of the world's leading astronomers, including Stephen Hawking, this is the ultimate history of how the universe has revealed itself to us over the millennia.

[Joseph Smith and Modern Astronomy](#) Daniel Zaborowski

A Noble Prize-winning Italian astrophysicist shares his scientific autobiography and the history of the development of contemporary astronomy. The discovery of x-rays continues to have a profound effect on the field of astronomy. It has opened the cosmos to exploration in ways previously unimaginable, and fundamentally altered the methods for pursuing information about outer space. Nobel Prize-winner Riccardo Giacconi's highly personal account of the birth and evolution of x-ray astronomy reveals the science, people, and institutional settings behind this important and influential discipline. Part history, part memoir, and part cutting-edge science, *Secrets of the Hoary Deep* is the tale of x-ray astronomy from its infancy through what can only be called its early adulthood. It also details how the tools, techniques, and practices designed to support and develop x-ray astronomy were transferred to optical, infrared, and radio astronomy, drastically altering the face of modern space exploration. Giacconi relates the basic techniques developed at American Science and Engineering and explains how, where, and by whom the science was advanced. From the first Earth-orbiting x-ray satellite, Uhuru, to the opening of the Space Telescope Science Institute and the lift-off of the Hubble Space Telescope to the construction of the Very Large Telescope, Giacconi recounts the ways in which the management methods and scientific methodology behind successful astronomy projects came to set the standards of operations for all subsequent space- and Earth-based observatories. Along the way he spares no criticism and holds back no praise, detailing individual as well as institutional failures and successes, reflecting upon how far astronomy has come and how far it has yet to go.

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The Secrets of Uranus Michael O'Mara Books

Cosmologists yearn to behold the unseen elements of our universe. And as new technologies become more powerful and precise, scientists are getting their wish—though these tools are challenging the limits of our imagination as fast as they are answering many longstanding questions. Space is one of the last great frontiers for modern man. A never-ending source of investigation and inspiration, it beckons to scientists with an irresistible siren's call. And in this glorious age of cosmology, astronomical measurement has never been more precise. The power provided to us by extraordinary new observational mechanisms has shattered former suppositions and stimulated exciting new visions of the universe. Using modern instruments such as the Wilkinson Microwave Anisotropy Probe (WMAP), astronomers now have access to information about the age and composition of the universe. By providing greatly improved answers, high-resolution satellite data and novel telescopic techniques have transformed one of science's most speculative fields into a triumph of meticulous and rigorous detection. Yet as the technological tools grow increasingly robust and we are able to see farther and know more, we find that we have even more questions. Could there be realms beyond ordinary space? Might time, space, and matter simply be illusions? What unique blend of cosmological factors influences life on Earth? Featuring interviews with leaders in the field as well as thought-provoking descriptions of their work, *Brave New Universe* is a guided tour of current advances and controversies in cosmology. [In the Shadow of the Moon](#) Springer Science & Business Media

Follow award-winning authors on a fascinating journey...Science and religion harmonized to gain a full understanding of the universe's inception and lawsVancouver, 2020. Physics engineer and CEO Daniel Friedmann loves solving problems. When the avid scientist dives deep into the latest scientific evidence about the universe and the scripture on creation, he faces a question he feels compelled to answer: Is it possible to combine faith and science to fully understand the beginning of the universe and the origins of time, space, elementary particles, and the forces of nature? His quest for answers takes him and his nephew Seb on an incredible journey through the ages, discovering stories from the lives and work of physicists, cosmologists, philosophers, biblical commentators, sages, and mystics. Follow Dan and Seb as they discover insights into the big open questions in cosmology and physics while gaining a better understanding of biblical texts on God's creation. Explore: what came before the Big Bang what happened in the first instant of the universe's existence the link between science's 13.8 billion-year timeline and the six-day creation account the beginning and nature of space the beginning, nature, and direction of time elementary particles—the basic building blocks of everything the spooky behavior of the microscopic world and how quantum mechanics gives rise to our reality the forces of nature and Einstein's relativity what undiscovered particles dark matter is made of whether the universe will continue to expand how and why the parameters of the universe are fine-tuned for life to exist *Mysteries of the First Instant* is a fascinating and entertaining read, digging deep into the universe's beginning to solve its well-kept mysteries. No scientific or biblical background required. Order your copy today.