
Astronomy Science And Its Secrets

How It Really Works and Why It Matters

The Thrilling Chase for a Ghostly Particle to Unlock the Secrets of the Universe

The Science Behind The Secret

The Book of Constellations

The Discovery of the Universe

Joseph Smith and Modern Astronomy

Science and the Secrets of Nature

Secrets of the Universe

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Planetology

How Einstein's spacetime ripples reveal the secrets of the universe

The Study of the Stars & Planets

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from William Herschel to the Herschel Space Observatory

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Gravitational Waves

Exploring the Secrets of the Aurora

The Mysteries of the Universe

A Mystery about Astronomy

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Unlocking the Secrets of the Solar System

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Discover the Secrets in the Stars

Copernicus' Secret

Astronomy Science And Its Secrets

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MALIK ALENA

How It Really Works and Why It Matters Penguin

Audisee® eBooks with Audio combine professional narration and sentence highlighting to engage reluctant readers! It's Space Week at Camp Dakota! The first team to answer three astronomy riddles will get to attend a top secret "big event." With space ace Angie leading them, team Astro Explorers is a shoo-in for first place. So why is team Star Troopers solving the riddles first? The Astro Explorers had better think fast if they want the big prize. Look in the back of the book for experiments and more to help you become a science detective too!

[The Thrilling Chase for a Ghostly Particle to Unlock the Secrets of the Universe](#) Princeton University Press

Does the universe circle around Earth? Do creatures live on the sun? Can you tell the future by looking at the stars? At one time, science supported wild notions like these! But later studies proved these ideas were nonsense. Discover science's biggest mistakes and oddest assumptions about physics and astronomy, and see how scientific thought changed over time.

CRC Press

Looks at the traditions and myths of the constellations and includes information about each celestial body.

[The Science Behind The Secret](#) Dorling Kindersley Ltd

Secrets of the Hoary Deep A Personal History of Modern

Astronomy Johns Hopkins University Press+ORM

[The Book of Constellations](#) Sky Publishing Corporation

Examines the science of astronomy and how it reveals the secrets of the universe. Suggested level: intermediate, senior secondary.

[The Discovery of the Universe](#) Scientific American / Farrar, Straus and Giroux

Presents an illustrated guide to the universe and to Earth's relationship to it, moving from theories of creation to humankind's discovery of the cosmos, to general relativity, to space missions, and beyond.

[Joseph Smith and Modern Astronomy](#) Springer

As our closest stellar companion and composed of two Sun-like stars and a third small dwarf star, Alpha Centauri is an ideal testing ground of astrophysical models and has played a central role in the history and development of modern astronomy—from the first guesses at stellar distances to understanding how our

own star, the Sun, might have evolved. It is also the host of the nearest known exoplanet, an ultra-hot, Earth-like planet recently discovered. Just 4.4 light years away Alpha Centauri is also the most obvious target for humanity's first directed interstellar space probe. Such a mission could reveal the small-scale structure of a new planetary system and also represent the first step in what must surely be humanity's greatest future adventure—exploration of the Milky Way Galaxy itself. For all of its closeness, α Centauri continues to tantalize astronomers with many unresolved mysteries, such as how did it form, how many planets does it contain and where are they, and how might we view its extensive panorama directly? In this book we move from the study of individual stars to the study of our Solar System and our nearby galactic neighborhood. On the way we will review the rapidly developing fields of exoplanet formation and detection. *Science and the Secrets of Nature* Princeton University Press

White dwarfs, each containing about as much mass as our Sun but packed into a volume about the size of Earth, are the endpoints of evolution for most stars. Thousands of these faint objects have now been discovered, though only a century ago only three were known. They are among the most common stars in the Milky Way Galaxy, and they have become important tools in understanding the universe. Yet a century ago only three white dwarfs were known. The existence of these stars completely baffled the scientists of the day, and solving the mysteries of these strange objects required revolutionary advances in science and technology, including the development of quantum physics, the construction and utilization of large telescopes, the invention of the digital computer, and the ability to make astronomical observations from space. This book tells the story of the growth in our understanding of white dwarf stars, set within the context of the relevant scientific and technological advances. Part popular science, part historical narrative, this book is authored by one of the astrophysicists who participated directly in uncovering some of the secrets of white dwarf stars.

Secrets of the Universe MIT Press

The cutting-edge science that is taking the measure of the universe *The Little Book of Cosmology* provides a breathtaking look at our universe on the grandest scales imaginable. Written by one of the world's leading experimental cosmologists, this short but deeply insightful book describes what scientists are revealing through precise measurements of the faint thermal afterglow of the Big Bang—known as the cosmic microwave background, or CMB—and how their findings are transforming our view of the cosmos. Blending the latest findings in cosmology with essential concepts from physics, Lyman Page first helps readers to grasp the sheer enormity of the universe, explaining how to understand the history of its formation and evolution in space and time. Then he sheds light on how spatial variations in the CMB formed, how they reveal the age, size, and geometry of the universe, and how they offer a blueprint for the formation of cosmic structure. Not only does Page explain current observations and measurements, he describes how they can be woven together into a unified picture to form the Standard Model of Cosmology. Yet much remains unknown, and this incisive book also describes the search for ever deeper knowledge at the field's frontiers—from quests to understand the nature of neutrinos and dark energy to investigations into the physics of the very early universe.

Numbers of the Gods Anchor Canada

How did our universe come to exist? Why do stars shine? Is there life beyond the Earth? For millennia, humans have looked to the celestial sphere to explain the cosmos, first recording the movements of the Moon 25,000 years ago. Since the Enlightenment and the dawn of the space age, scientists have

been unravelling cosmic mysteries, and raising astonishing new questions for future generations to answer. Today we live in an age of unprecedented astronomical revelation, from the discovery of water on Mars to the detection of gravitational waves and the first photograph of a black hole. World-renowned astronomer Paul Murdin explains the science behind these discoveries, along with the passions, struggles and quirks of fate that made them some of the most intriguing dramas of their times, demonstrating how human ingenuity and technological innovation have expanded our knowledge of the Universe beyond anything our ancestors - even as recently as a generation ago - could ever have imagined.

Infrared Astronomy - Seeing the Heat Pegasus Books

A series of conversations about science in graphic form, on subjects that range from the science of cooking to the multiverse. Physicist Clifford Johnson thinks that we should have more conversations about science. Science should be on our daily conversation menu, along with topics like politics, books, sports, or the latest prestige cable drama. Conversations about science, he tells us, shouldn't be left to the experts. In *The Dialogues*, Johnson invites us to eavesdrop on a series of nine conversations, in graphic-novel form—written and drawn by Johnson—about “the nature of the universe.” The conversations take place all over the world, in museums, on trains, in restaurants, in what may or may not be Freud's favorite coffeehouse. The conversationalists are men, women, children, experts, and amateur science buffs. The topics of their conversations range from the science of cooking to the multiverse and string theory. The graphic form is especially suited for physics; one drawing can show what it would take many words to explain. In the first conversation, a couple meets at a costume party; they speculate about a scientist with superhero powers who doesn't use them to fight crime but to do more science, and they discuss what it means to have a “beautiful equation” in science. Their conversation spills into another chapter (“Hold on, you haven't told me about light yet”), and in a third chapter they exchange phone numbers. Another couple meets on a train and discusses immortality, time, black holes, and religion. A brother and sister experiment with a grain of rice. Two women sit in a sunny courtyard and discuss the multiverse, quantum gravity, and the anthropic principle. After reading these conversations, we are ready to start our own.

Discover the Secrets in the Stars Lerner Digital™

A NEW YORK TIMES NOTABLE BOOK OF 2020 NAMED A BEST BOOK OF THE YEAR BY * THE WASHINGTON POST * THE ECONOMIST * NEW SCIENTIST * PUBLISHERS WEEKLY * THE GUARDIAN “A thrilling tour of potential cosmic doomsdays...Mack's infectious enthusiasm for communicating the finer points of cosmological doom elevates *The End of Everything* over any other book on the topic.” —The Wall Street Journal “I found it helpful—not reassuring, certainly, but mind-expanding—to be reminded of our place in a vast cosmos.” —James Gleick, The New York Times Book Review From one of the most dynamic rising stars in astrophysics, an accessible and eye-opening look at five ways the universe could end, and the mind-blowing lessons each scenario reveals about the most important concepts in cosmology. We know the universe had a beginning. With the Big Bang, it expanded from a state of unimaginable density to an all-encompassing cosmic fireball to a simmering fluid of matter and energy, laying down the seeds for everything from black holes to one rocky planet orbiting a star near the edge of a spiral galaxy that happened to develop life as we know it. But what happens to the universe at the end of the story? And what does it mean for us now? Dr. Katie Mack has been contemplating these questions since she was a young student, when her astronomy professor informed her the universe

could end at any moment, in an instant. This revelation set her on the path toward theoretical astrophysics. Now, with lively wit and humor, she takes us on a mind-bending tour through five of the cosmos's possible finales: the Big Crunch, Heat Death, the Big Rip, Vacuum Decay (the one that could happen at any moment!), and the Bounce. Guiding us through cutting-edge science and major concepts in quantum mechanics, cosmology, string theory, and much more, *The End of Everything* is a wildly fun, surprisingly upbeat ride to the farthest reaches of all that we know.

Planetology Princeton University Press

Journey from Earth to the outer reaches of the universe with this stunning book about space! You'll encounter bizarre planets, distant stars, and intricate galaxies. From planets and asteroids to black holes and galaxies, every page of this captivating book reveals the secrets behind more than 100 celestial objects. Get ready to explore fun facts and exciting new scientific discoveries! For centuries, the mysteries of space have captured our imaginations. This picture book will illuminate imaginations and spark curious minds to explore the vastness of space. Take your little astronaut on a journey from our planet out into the furthest reaches of the universe! Filled with gorgeous illustrations and incredible photography, young readers will be intrigued by the detailed close-up images of each celestial body. The engaging storybook-style descriptions and simple text shed a light on facts, myths, and key discoveries about the universe. Explore the wonders of our solar system and beyond. This educational book also includes reference pages packed with fascinating information. *Journey Through the Vastness of Space* Join us on an adventure across the universe, as we rocket to the stars! Discover 100 objects from the universe, arranged from the closest to our planet to the ones the furthest away. Storybook-style text and out-of-this-world pictures make this book perfect for an astronomical bedtime. It's also a fantastic gift for children who can't get enough of space. Grab your spacesuit and put your helmet on! Inside the pages of this adventure book, you'll find: - Beautiful illustrations and incredible photography that showcase the mysteries of space. - Discover 100 remarkable objects in the cosmos. - Engaging storybook-style descriptions that explain key discoveries about the universe. More to Explore Once you've discovered *The Mysteries of the Universe*, dive into the companion titles from this series from DK Books! *The Wonders of Nature* explores more than 100 items from the natural world and *An Anthology of Intriguing Animals* showcases animals around the world.

How Einstein's spacetime ripples reveal the secrets of the universe Cassell

One of the world's most beloved and bestselling writers takes his ultimate journey -- into the most intriguing and intractable questions that science seeks to answer. In *A Walk in the Woods*, Bill Bryson trekked the Appalachian Trail -- well, most of it. In *In a Sunburned Country*, he confronted some of the most lethal wildlife Australia has to offer. Now, in his biggest book, he confronts his greatest challenge: to understand -- and, if possible, answer -- the oldest, biggest questions we have posed about the universe and ourselves. Taking as territory everything from the Big Bang to the rise of civilization, Bryson seeks to understand how we got from there being nothing at all to there being us. To that end, he has attached himself to a host of the world's most advanced (and often obsessed) archaeologists, anthropologists, and mathematicians, travelling to their offices, laboratories, and field camps. He has read (or tried to read) their books, pestered them with questions, apprenticed himself to their powerful minds. *A Short History of Nearly Everything* is the record of this quest, and it is a sometimes profound, sometimes funny, and always

supremely clear and entertaining adventure in the realms of human knowledge, as only Bill Bryson can render it. Science has never been more involving or entertaining.

The Study of the Stars & Planets Lulu Press, Inc

One of TIME's Ten Best Nonfiction Books of the Decade "Meet the new Stephen Hawking . . . *The Order of Time* is a dazzling book." - *The Sunday Times* From the bestselling author of *Seven Brief Lessons on Physics*, *Reality Is Not What It Seems*, and *Helgoland*, comes a concise, elegant exploration of time. Why do we remember the past and not the future? What does it mean for time to "flow"? Do we exist in time or does time exist in us? In lyric, accessible prose, Carlo Rovelli invites us to consider questions about the nature of time that continue to puzzle physicists and philosophers alike. For most readers this is unfamiliar terrain. We all experience time, but the more scientists learn about it, the more mysterious it remains. We think of it as uniform and universal, moving steadily from past to future, measured by clocks. Rovelli tears down these assumptions one by one, revealing a strange universe where at the most fundamental level time disappears. He explains how the theory of quantum gravity attempts to understand and give meaning to the resulting extreme landscape of this timeless world. Weaving together ideas from philosophy, science and literature, he suggests that our perception of the flow of time depends on our perspective, better understood starting from the structure of our brain and emotions than from the physical universe. Already a bestseller in Italy, and written with the poetic vitality that made *Seven Brief Lessons on Physics* so appealing, *The Order of Time* offers a profoundly intelligent, culturally rich, novel appreciation of the mysteries of time.

The End of Everything Tree of Life Books

Journey from Earth to the outer reaches of the universe with this stunning book about space! You'll encounter bizarre planets, distant stars, and intricate galaxies. Every page of this captivating book reveals the secrets behind more than 100 celestial objects, from planets, asteroids to black holes and galaxies. Get ready to explore fun facts and exciting new scientific discoveries! For centuries, the mysteries of space have captured our imaginations. This picture book will illuminate imaginations and spark curious minds to explore the vastness of space. Take your little astronaut on a journey from our planet out into the furthest reaches of the universe! Filled with gorgeous illustrations and incredible photography, young readers will be intrigued by the detailed close-up images of each celestial body. The engaging storybook-style descriptions and simple text shed a light on facts, myths, and key discoveries about the universe! Explore the wonders of our solar system and beyond. This educational book also includes reference pages packed with fascinating information. *Journey Through the Vastness of Space* Join us on an adventure across the universe, as we rocket to the stars! Discover 100 objects from the universe, arranged from the closest to our planet to the ones furthest away. Storybook-style text and out-of-this-world pictures make this book perfect for an astronomical bedtime. It's also a fantastic gift for children who can't get enough of space. Grab your spacesuit and put your helmet on! Inside the pages of this adventure book, you'll find: - Beautiful illustrations and incredible photography that showcase the mysteries of space. - Discover 100 remarkable objects in the cosmos. - Engaging storybook-style descriptions that explain key discoveries about the universe. More to Explore Once you've discovered *The Mysteries of the Universe*, dive into the companion titles from this series from DK Books! *The Wonders of Nature* explores more than 100 items from the natural world and *An Anthology of Intriguing Animals* showcases animals from around the world.

from [William Herschel to the Herschel Space Observatory](#) Baen 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.

A Short History of Nearly Everything Icon Books

By explaining how to sire multicolored horses, produce nuts without shells, and create an egg the size of a human head, Giambattista Della Porta's *Natural Magic* (1559) conveys a fascination with tricks and illusions that makes it a work difficult for historians of science to take seriously. Yet, according to William Eamon, it is in the "how-to" books written by medieval alchemists, magicians, and artisans that modern science has its roots. These compilations of recipes on everything from parlor tricks through medical remedies to wool-dyeing fascinated medieval intellectuals because they promised access to esoteric "secrets of nature." In closely examining this rich but little-known source of literature, Eamon reveals that printing technology and popular culture had as great, if not stronger, an impact on early modern science as did the traditional academic disciplines.

The Seven Secrets of How to Think Like a Rocket Scientist Lulu Press, Inc

A revealing and provocative look at the current state of global science We take the advance of science as given. But how does science really work? Is it truly as healthy as we tend to think? How does the system itself shape what scientists do? *The Secret Life of Science* takes a clear-eyed and provocative look at the

current state of global science, shedding light on a cutthroat and tightly tensioned enterprise that even scientists themselves often don't fully understand. *The Secret Life of Science* is a dispatch from the front lines of modern science. It paints a startling picture of a complex scientific ecosystem that has become the most competitive free-market environment on the planet. It reveals how big this ecosystem really is, what motivates its participants, and who reaps the rewards. Are there too few scientists in the world or too many? Are some fields expanding at the expense of others? What science is shared or published, and who determines what the public gets to hear about? What is the future of science? Answering these and other questions, this controversial book explains why globalization is not necessarily good for science, nor is the continued growth in the number of scientists. It portrays a scientific community engaged in a race for limited resources that determines whether careers are lost or won, whose research visions become the mainstream, and whose vested interests end up in control. *The Secret Life of Science* explains why this hypercompetitive environment is stifling the diversity of research and the resiliency of science itself, and why new ideas are needed to ensure that the scientific enterprise remains healthy and vibrant.

Gravitational Waves Simon & Schuster

One of *The New York Times Book Review's* "10 Best Books of 2021" Shortlisted for the 2021 International Booker Prize A fictional examination of the lives of real-life scientists and thinkers whose discoveries resulted in moral consequences beyond their imagining. *When We Cease to Understand the World* is a book about the complicated links between scientific and mathematical discovery, madness, and destruction. Fritz Haber, Alexander Grothendieck, Werner Heisenberg, Erwin Schrödinger—these are some of luminaries into whose troubled lives Benjamín Labatut thrusts the reader, showing us how they grappled with the most profound questions of existence. They have strokes of unparalleled genius, alienate friends and lovers, descend into isolation and insanity. Some of their discoveries reshape human life for the better; others pave the way to chaos and unimaginable suffering. The lines are never clear. At a breakneck pace and with a wealth of disturbing detail, Labatut uses the imaginative resources of fiction to tell the stories of the scientists and mathematicians who expanded our notions of the possible.

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