

All About Stephen Hawking

A shorter, more accessible edition of a now-classic survey of the origin and nature of the universe features new full-color illustrations and an expanded, easier to understand treatment of the volume's more important theoretical concepts.

Was there a beginning of time? Could time run backwards? Is the universe infinite or does it have boundaries? These are just some of the questions considered in an internationally acclaimed masterpiece by one of the world's greatest thinkers. It begins by reviewing the great theories of the cosmos from Newton to Einstein, before delving into the secrets which still lie at the heart of space and time, from the Big Bang to black holes, via spiral galaxies and string theory. To this day *A Brief History of Time* remains a staple of the scientific canon, and its succinct and clear language continues to introduce millions to the universe and its wonders.

Stephen Hawking *A Biography* Greenwood Publishing Group

New in the Little People, BIG DREAMS series, discover the life of Stephen Hawking, the genius physicist and author. When Stephen Hawking was a little boy, he used to stare up at the stars and wonder about the universe. Although he was never top of the class, his curiosity took him to the best universities in England: Oxford and Cambridge. It also led him to make one of the biggest scientific discoveries of the 20th century: Hawking radiation. This moving book features stylish and quirky illustrations and extra facts at the back, including a biographical timeline with historical photos and a detailed profile of the brilliant physicist's life. Little People, BIG DREAMS is a best-selling series of books and educational games that explore the lives of outstanding people, from designers and artists to scientists and activists. All of them achieved incredible things, yet each began life as a child with a dream. This empowering series offers inspiring messages to children of all ages, in a range of formats. The board books are told in simple sentences, perfect for reading aloud to babies and toddlers. The hardcover versions present expanded stories for beginning readers. Boxed gift sets allow you to collect a selection of the books by theme. Paper dolls, learning cards, matching games, and other fun learning tools provide even more ways to make the lives of these role models accessible to children. Inspire the next generation of outstanding people who will change the world with Little People, BIG DREAMS!

The best-selling author of *A Brief History of Time* presents a new study of the cosmos that will blow peoples' minds, presented in clear, concise language this is easy to understand.

Stephen Hawking - *A Stephen Hawking Biography: The Greatest Scientist of Our Time* Dennis William Sciama (1926 - 1999) was a don at the University of Cambridge in the United Kingdom. He was one of the most eminent physicists of his time. In 1963 he was informed that he was to receive a new pupil, a young

man from Oxford who wished to undertake his doctoral thesis under his tutelage. There was nothing unusual in this. Mentoring new pupils was part and parcel of a university academic's life. However the new pupil seemed, on the face of it, unremarkable. In fact he had the reputation of a lazy and somewhat difficult student. In his written exam at Oxford he had achieved neither a first nor a second degree. A first would have entitled him to undertake postgraduate studies at Cambridge; a second at Oxford. He had to submit to an oral exam, an ordeal that terrified him but nevertheless impressed his examiners who remarked that they faced intelligence greater than there on. After a while Sciama also agreed that he was dealing with a highly potent intellect. This man was only 21 years old and moreover had just been given 2 years to live. His name was Stephen William Hawking. Since then, Stephen Hawking has gone on to become one of the most eminent scientists of his generation, internationally respected and famous for his work. This is his story.

Known for both his bestselling books and his work on black holes, physicist Stephen Hawking beat the odds and lived with ALS for longer than doctors ever expected. This engrossing biography shows why Hawking is an inspiring example of someone who pursued his dreams in spite of his disability. Follow his path to fame as he formulates his groundbreaking theory, expands our ideas about the universe, and becomes an admired "rock-star scientist."

#1 NEW YORK TIMES BESTSELLER When and how did the universe begin? Why are we here? What is the nature of reality? Is the apparent "grand design" of our universe evidence of a benevolent creator who set things in motion—or does science offer another explanation? In this startling and lavishly illustrated book, Stephen Hawking and Leonard Mlodinow present the most recent scientific thinking about these and other abiding mysteries of the universe, in nontechnical language marked by brilliance and simplicity. According to quantum theory, the cosmos does not have just a single existence or history. The authors explain that we ourselves are the product of quantum fluctuations in the early universe, and show how quantum theory predicts the "multiverse"—the idea that ours is just one of many universes that appeared spontaneously out of nothing, each with different laws of nature. They conclude with a riveting assessment of M-theory, an explanation of the laws governing our universe that is currently the only viable candidate for a "theory of everything": the unified theory that Einstein was looking for, which, if confirmed, would represent the ultimate triumph of human reason.

Includes excerpts from Simone Biles, Albert Einstein, and Neil Armstrong.

NEW YORK TIMES BESTSELLER • Thirteen extraordinary essays shed new light on the mystery of the universe—and on one of the most brilliant thinkers of our time. In his phenomenal bestseller *A Brief History of Time*, Stephen Hawking literally transformed the way we think about physics, the universe, reality itself. In these thirteen essays and one remarkable extended interview, the man widely regarded as the most brilliant theoretical physicist since Einstein returns to reveal an amazing array of possibilities for understanding our universe. Building on his earlier work, Hawking discusses imaginary time, how black holes can give birth

to baby universes, and scientists' efforts to find a complete unified theory that would predict everything in the universe. With his characteristic mastery of language, his sense of humor and commitment to plain speaking, Stephen Hawking invites us to know him better—and to share his passion for the voyage of intellect and imagination that has opened new ways to understanding the very nature of the cosmos.

Presents the life and accomplishments of the English scientist, who, despite suffering from Lou Gehrig's disease, has become a renowned cosmologist whose theory of black holes has had a profound influence on the modern study of the universe.

Bestselling author and physicist Stephen Hawking explores the "masterpieces" of mathematics, 25 landmarks spanning 2,500 years and representing the work of 15 mathematicians, including Augustin Cauchy, Bernard Riemann, and Alan Turing. This extensive anthology allows readers to peer into the mind of genius by providing them with excerpts from the original mathematical proofs and results. It also helps them understand the progression of mathematical thought, and the very foundations of our present-day technologies. Each chapter begins with a biography of the featured mathematician, clearly explaining the significance of the result, followed by the full proof of the work, reproduced from the original publication.

An illustrated, large-format edition of the best-seller has been expanded to encompass the remarkable advances that have occurred in science and technology over the past eight years, with a new chapter on Wormholes and Time Travel and more than 240 full-color, captioned illustrations. 100,000 first printing.

A picture-book biography about science superstar Stephen Hawking, whose visionary mind revolutionized our concept of reality and whose struggle with ALS inspired millions. Perfect for parents and teachers looking to instill curiosity and a love for STEM. As a young boy, Stephen Hawking loved to read, stargaze, and figure out how things worked. He looked at the world and always asked, Why? He never lost that curiosity, which led him to make groundbreaking discoveries about the universe as a young man. Even being diagnosed with ALS didn't slow Stephen down. Those questions kept coming. As his body weakened, Stephen's mind expanded--allowing him to unlock secrets of the universe and become one of the most famous scientists of all time. Stephen always approached life with courage, a sense of humor, and endless curiosity. His story will encourage readers to look at the world around them with new eyes.

An intimate and inspirational exploration of Stephen Hawking--the man, the friend, and the physicist. Stephen Hawking was one of the most famous and influential physicists in the world. He left a mark in our culture that touched the lives of millions. His books have inspired countless scientists-to-be, and his research on the laws of black holes and the origin of the universe charted new territory. Recalling his nearly two-decades as a friend and collaborator with Stephen Hawking, Leonard Mlodinow brings a complex man into focus like no one has before. He introduces us to Hawking the colleague, for whom no detail is too minor to get right, a challenge for a man who could only type one word per minute. We meet Hawking the friend, who creates such strong connections with those around him that he can communicate powerfully with just the raise of an eyebrow. We witness Hawking the genius, who, against all odds, flourishes after he is diagnosed with ALS and pours his mind into uncovering the mysteries of the universe. Brilliant, impish, and kind, Hawking endeared himself to almost everyone he came into contact with. This beautiful portrait is inspirational and is sure to stick with you long after you've read it.

Stephen Hawking is a world-famous physicist, but few people outside his field know what he has done. To the public he is a figure of tragic dimensions - a brilliant scientist and author of the phenomenal best-seller *A Brief History of Time*, and yet confined to a wheelchair, unable to speak or write. Hawking has mastered the two great theories of 20th-century physics -

Einstein's General Theory of Relativity and Quantum Mechanics - and has made breathtaking discoveries about where they break down or overlap, such as on the edge of a Black Hole or at the Big Bang origin of the Universe. Here is the perfect introduction to Hawking's work by the author, who was helped by several long discussions with Hawking in researching the book. Stephen Hawking was recognized as one of the greatest minds of our time and a figure of inspiration after defying his ALS diagnosis at age twenty-one. He is known for both his breakthroughs in theoretical physics as well as his ability to make complex concepts accessible for all, and was beloved for his mischievous sense of humor. At the time of his death, Hawking was working on a final project: a book compiling his answers to the "big" questions that he was so often posed--questions that ranged beyond his academic field. Within these pages, he provides his personal views on our biggest challenges as a human race, and where we, as a planet, are heading next. Each section will be introduced by a leading thinker offering his or her own insight into Professor Hawking's contribution to our understanding. The book will also feature a foreword from Academy Award winning actor Eddie Redmayne, who portrayed Hawking in the film *The Theory of Everything*, and an afterword by Hawking's daughter, Lucy Hawking, as well as personal photographs and additional archival material.

#1 NEW YORK TIMES BESTSELLING AUTHORS The science classic made more accessible

• More concise • Illustrated FROM ONE OF THE MOST BRILLIANT MINDS OF OUR TIME COMES A BOOK THAT CLARIFIES HIS MOST IMPORTANT IDEAS Stephen Hawking's worldwide bestseller *A Brief History of Time* remains a landmark volume in scientific writing. But for years readers have asked for a more accessible formulation of its key concepts—the nature of space and time, the role of God in creation, and the history and future of the universe. *A Briefer History of Time* is Professor Hawking's response. Although "briefer," this book is much more than a mere explanation of Hawking's earlier work. *A Briefer History of Time* both clarifies and expands on the great subjects of the original, and records the latest developments in the field—from string theory to the search for a unified theory of all the forces of physics. Thirty-seven full-color illustrations enhance the text and make *A Briefer History of Time* an exhilarating and must-have addition in its own right to the great literature of science and ideas.

This Is The Story Of One Of The Most Remarkable Figures Of Our Time - Professor Stephen Hawking, The Cambridge Genius Who Has Earned An International Reputation As The Most Brilliant Theoretical Physicist Since Einstein. When Kitty Ferguson Approached Stephen Hawking With The Idea Of Writing A Book About Him And Asked Him To Help Her Make Certain She Understood His Theories, He Agreed To Do So And Also Supplied Her With Material About His Childhood And Life. This Book Is The Splendid Result. It Is Not A Biography Per Se. It Is Rather The Story Of One Man'S Quest To Find The 'Theory Of Everything'. In These Pages You Will Encounter A Multitude Of Amazing Paradoxes: Beginnings May Be Endings& Two Great Scientific Theories Taken Together Seem To Give Us Nonsense& Empty Space Isn'T Empty& Black Holes Aren'T Black& Cruel Circumstances Can Lead To Happiness, Although Fame And Success May Not& And A Man Whose Appearance Inspires Shock And Pity Takes Us Laughing To Where The Boundaries Of Space And Time Ought To Be - But Are Not.

The famous physicist details the events of his life and career, including attending Oxford and Cambridge, his ALS diagnosis, his study of black holes, and his penning of the bestselling "*A Brief History of Time*."

The author explores recent scientific breakthroughs in the fields of supergravity, supersymmetry, quantum theory, superstring theory, and p-branes as he searches for the Theory of Everything that lies at the heart of the cosmos.

#1 NEW YORK TIMES BESTSELLER A landmark volume in science writing by one of the great minds of our time, Stephen Hawking's book explores such profound questions as: How

did the universe begin—and what made its start possible? Does time always flow forward? Is the universe unending—or are there boundaries? Are there other dimensions in space? What will happen when it all ends? Told in language we all can understand, *A Brief History of Time* plunges into the exotic realms of black holes and quarks, of antimatter and “arrows of time,” of the big bang and a bigger God—where the possibilities are wondrous and unexpected. With exciting images and profound imagination, Stephen Hawking brings us closer to the ultimate secrets at the very heart of creation.

Themes: History, STEM, Stephen Hawking, Nonfiction, Tween, Chapter Book, Hi-Lo, Hi-Lo Books, Hi-Lo Solutions, High-Low Books, Hi-Low Books, ELL, EL, ESL, Struggling Learner, Struggling Reader, Special Education, SPED, Newcomers, Reading, Learning, Education, Educational, Educational Books. Stephen Hawking was one of the brightest minds of our time. A physicist and a lifelong learner, Hawking overcame serious obstacles and made discoveries that changed the world of science. Hawking was diagnosed with a terminal illness at an early age, but beat the odds time and again. Through humor, he helped make science more accessible to millions of people. This is his story. Take a look inside *White Lightning Nonfiction*, a hi-lo nonfiction series for students in the middle grades. Mature, high-interest topics pull in readers and engage them with interesting information; full-color photographs and illustrations; detailed graphic elements including charts, tables, and infographics; and fascinating facts. A 20-word glossary is included for vocabulary support.

Collector's Edition with Audiobook read by the Author Stephen Hawking is widely believed to be one of the world's greatest minds: a brilliant theoretical physicist whose work helped to reconfigure models of the universe and to redefine what's in it. Imagine sitting in a room listening to Hawking discuss these achievements and place them in historical context. It would be like hearing Christopher Columbus on the *New World*. Hawking presents a series of seven lectures covering everything from big bang to black holes to string theory that capture not only the brilliance of Hawking's mind but his characteristic wit as well. Of his research on black holes, which absorbed him for more than a decade, he says, It might seem a bit like looking for a black cat in a coal cellar. Hawking begins with a history of ideas about the universe, from Aristotle's determination that the Earth is round to Hubble's discovery, over 2000 years later, that the universe is expanding. Using that as a launching pad, he explores the reaches of modern physics, including theories on the origin of the universe (e.g., the big bang), the nature of black holes, and space-time.

Einstein's General Theory of Relativity leads to two remarkable predictions: first, that the ultimate destiny of many massive stars is to undergo gravitational collapse and to disappear from view, leaving behind a 'black hole' in space; and secondly, that there will exist singularities in space-time itself. These singularities are places where space-time begins or ends, and the presently known laws of physics break down. They will occur inside black holes, and in the past are what might be construed as the beginning of the universe. To show how these predictions arise, the authors discuss the General Theory of Relativity in the large. Starting with a precise formulation of the theory and an account of the necessary background of differential geometry, the significance of space-time curvature is discussed and the global properties of a number of exact solutions of Einstein's field equations are examined. The theory of the causal structure of a general space-time is developed, and is used to study black holes and to prove a number of theorems establishing the inevitability of singularities under certain conditions. A discussion of the Cauchy problem for General Relativity is also

included in this 1973 book.

Despite his debilitating illness, Stephen Hawking found way to share his knowledge of the universe. He was a bright man who was always hungry for knowledge. He experimented, studied and explored anything and everything from the physical world to the cosmos. Be inspired by his story. Learn from his discoveries. Read this book today!

A Gripping Account Of A Physicist Whose Speculations Could Prove As Revolutionary As Those Of Albert Einstein... It Can Be Consulted As A Clear And Authoritative Guide Through Three Decades Of Hawking S Central Contributions To Cosmology. - Bernard Dixon In The New Statesman & Society Excellent... From The Opening Pages, Which Relate The Occasion When Shirley Maclaine Sought An Audience With Her Hero In A Cambridge Restaurant, To The Final Chapter On Hollywood, Fame And Fortune , The Book Is Well-Nigh Unputdownable... [It] Ought To Be Read Alongside A Brief History Of Time As A Kind Of Explanatory Supplement. - Heather Cooper In The Times Educational Supplement Fascinating... What Makes This Book So Rewarding Is The Way That The Authors Have Blended Their Account Of Hawking S Science With That Of His Life, Giving A Picture Of A Remarkable Scientist As A Remarkable Person. - Tony Osman In The Spectator It S Compulsive Reading, Maybe Because Hawking Towers Above It All, A Complex And Fascinating Character Who Remains Strangely Elusive: Boyish Yet Indomitable, Stubborn Yet Charming, A Private Man Revelling In Fame. - Clare Francis In The Sunday Express [Their Book] Conveys How Scientific Research Is Not Just A Dry Intellectual Pursuit But An Adventure Full Of Joy, Despair And Humour, And Fraught With The Sort Of Inter-Personal Problems And Rivalries Which Mark All Human Endeavours. - Bernard Carr In The Independent On Sunday Few Scientists Become Legends In Their Own Lifetime. Stephen Hawking Is One. It Is Good To Have This Well-Documented And Immensely Readable Biography To Remind Us That The Media-Hyped Mute Genius In The Wheelchair Is In Fact A Sensitive, Humorous, Ambitious And Occasionally Wilful Human Being. - Paul Davies In The Times Higher Education Supplement

"Stephen Hawking has been an iconic figure in physics for the last half a century, making many groundbreaking discoveries on the nature of the universe. Yet while his mind roams to the farthest corners of reality, his body has become increasingly trapped by the advance of Lou Gehrig's disease, which has bound him to a wheelchair, without speech or movement except for a few facial muscles. Told in his youth that he would not live past his 20s, Hawking will turn 70 in 2012, and today he continues to inspire millions, drawing rock-concert-sized crowds wherever he lectures. Science writer Kitty Ferguson has been working with Stephen Hawking for decades, and produced an internationally bestselling biography of his life in 1992. Now, she brings his life as well as his scientific discoveries up-to-date. This is a remarkable look at how one of the greatest scientific mind alive overcame the odds to become the truly inspirational figure he

is today"--

A bold and all-embracing exploration of the nature and progress of knowledge from one of today's great thinkers. Throughout history, mankind has struggled to understand life's mysteries, from the mundane to the seemingly miraculous. In this important new book, David Deutsch, an award-winning pioneer in the field of quantum computation, argues that explanations have a fundamental place in the universe. They have unlimited scope and power to cause change, and the quest to improve them is the basic regulating principle not only of science but of all successful human endeavor. This stream of ever improving explanations has infinite reach, according to Deutsch: we are subject only to the laws of physics, and they impose no upper boundary to what we can eventually understand, control, and achieve. In his previous book, *The Fabric of Reality*, Deutsch describe the four deepest strands of existing knowledge—the theories of evolution, quantum physics, knowledge, and computation—arguing jointly they reveal a unified fabric of reality. In this new book, he applies that worldview to a wide range of issues and unsolved problems, from creativity and free will to the origin and future of the human species. Filled with startling new conclusions about human choice, optimism, scientific explanation, and the evolution of culture, *The Beginning of Infinity* is a groundbreaking book that will become a classic of its kind.

Stephen Hawking In 1963, Stephen Hawking was diagnosed with motor neurone disease and given two years to live. More than half a century later, Hawking had made some of the most significant contributions to our understanding of the universe since Albert Einstein. The world's most famous physics professor, a best-selling author, and a father of three, Stephen lived his life to its fullest. Bridging the world of theoretical physics with the reach of pop culture, Stephen Hawking became an emblem of human determination and intellectual curiosity. Inside you will read about... ? Early Life and Terminal Illness ? Hawking Radiation and Black Holes ? The Hawking Family ? A Gambling Man ? Late Life and Death And much more!

As an Oxford student, Stephen Hawking never expected that people across the world would know his name, or that his hobby of stargazing would lead him to be one of the world's greatest scientists. Stephen Hawking made cosmology, or the study of the universe, accessible to everyone. Hawking is best known for writing *A Brief History of Time*, which explained cosmology in non-scientific terms so that non-scientists could understand it. He was diagnosed with amyotrophic lateral sclerosis at the age of twenty-one, but didn't let that stop him from receiving a graduate degree from Cambridge and going on to be an expert in the scientific origin of the universe and black holes. He was expected to die in 1965 at the age of twenty-three, but went on to live a full life, dying in 2018 at seventy-six years old. The newly revised edition of *All About Stephen Hawking* includes information about Hawking's death, its effect on those around him, and his lasting scientific legacy. It is designed to interest middle-grade readers ages nine to fourteen in

science, engineering, technology, and math. After all, we wouldn't be mathematically exploring black holes without him! Complete with two timelines, a glossary, quotes, an index and expertly crafted illustrations, All About Stephen Hawking is perfect for any student's library. A professionally-developed teacher's guide is available at blueriverpressbooks.com/all-about-teachers-guides/. In 1963 Stephen Hawking was given two years to live. Defying all the odds, he died in March 2018 at age seventy-six as the most celebrated scientist in the world. This carefully researched, and now newly updated, up-to-the-minute biography and tribute gives a rich picture of Hawking's remarkable life – his childhood, the heart-rending beginning of his struggle with motor neurone disease, his ever-increasing international fame, and his long personal battle for survival in pursuit of a scientific understanding of the universe. From more recent years, Kitty Ferguson describes his inspiring leadership at the London Paralympic Games, the release of the film *The Theory of Everything*, his continuing work on black holes and the origin of the universe, the discovery of 'supertranslations', and the astounding 'Starshot' program. Here also are his intense concern for the future of the Earth and his use of his celebrity to fight for environmental and humanitarian causes, and, finally, a ground-breaking paper he was working on at the time of his death, in which he took issue with some of his own earlier theories. Throughout, Ferguson summarizes and explains the cutting-edge science in which Hawking was engaged. In March, 2018, tributes poured in from around the world and friends and strangers Hawking had inspired gathered for his funeral in Cambridge and the interment of his ashes in Westminster Abbey. Ferguson offers vivid first-hand descriptions of both these occasions and, in an amazing and revealing tribute, assesses Hawking's legacy in and out of science.

Do you like to gaze at the stars? So did the young Stephen Hawking. Eventually, he turned his fascination with the night sky into a career of trying to figure out how the universe began and how it works. As a child, Hawking loved the stars and he loved math class. In college, he studied physics and cosmology, or how the universe came to be. But then he was diagnosed with amyotrophic lateral sclerosis (ALS), a disease that shuts down the nerves that control muscles. His doctors thought he had two years to live, so Hawking started working hard to meet his goals. He studied black holes and made discoveries that earned him recognition around the world. He wrote several books about the universe to help people understand his ideas. More than fifty years after his diagnosis, Hawking still has ALS, but he continues to ponder the night skies, trying to find one theory that will explain the universe.

A physicist uses science and philosophy to answer the ancient, unsolvable question: why does the universe exist?

Stephen Hawking was widely recognized as the world's best physicist and even the most brilliant man alive—but what if his true talent was self-promotion? When Stephen Hawking died, he was widely recognized as the world's best physicist,

and even its smartest person. He was neither. In *Hawking Hawking*, science journalist Charles Seife explores how Stephen Hawking came to be thought of as humanity's greatest genius. Hawking spent his career grappling with deep questions in physics, but his renown didn't rest on his science. He was a master of self-promotion, hosting parties for time travelers, declaring victory over problems he had not solved, and wooing billionaires. In a wheelchair and physically dependent on a cadre of devotees, Hawking still managed to captivate the people around him—and use them for his own purposes. A brilliant exposé and powerful biography, *Hawking Hawking* uncovers the authentic Hawking buried underneath the fake. It is the story of a man whose brilliance in physics was matched by his genius for building his own myth.

Readers learn about the renowned British scientist, professor, and bestselling author ("A Brief History of Time") who spent his entire career trying to answer the question: "Where did the universe come from?" Original.

NATIONAL BESTSELLER Stephen Hawking has dazzled readers worldwide with a string of bestsellers exploring the mysteries of the universe. Now, for the first time, perhaps the most brilliant cosmologist of our age turns his gaze inward for a revealing look at his own life and intellectual evolution. *My Brief History* recounts Stephen Hawking's improbable journey, from his postwar London boyhood to his years of international acclaim and celebrity. Lavishly illustrated with rarely seen photographs, this concise, witty, and candid account introduces readers to a Hawking rarely glimpsed in previous books: the inquisitive schoolboy whose classmates nicknamed him Einstein; the jokester who once placed a bet with a colleague over the existence of a particular black hole; and the young husband and father struggling to gain a foothold in the world of physics and cosmology. Writing with characteristic humility and humor, Hawking opens up about the challenges that confronted him following his diagnosis of ALS at age twenty-one. Tracing his development as a thinker, he explains how the prospect of an early death urged him onward through numerous intellectual breakthroughs, and talks about the genesis of his masterpiece *A Brief History of Time*—one of the iconic books of the twentieth century. Clear-eyed, intimate, and wise, *My Brief History* opens a window for the rest of us into Hawking's personal cosmos.

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