

Big Bang The Origin Of The Universe By Simon Singh

Stephen Hawking, the Lucasian Professor of Mathematics at Cambridge University, has made important theoretical contributions to gravitational theory and has played a major role in the development of cosmology and black hole physics. Hawking's early work, partly in collaboration with Roger Penrose, showed the significance of spacetime singularities for the big bang and black holes. His later work has been concerned with a deeper understanding of these two issues. The work required extensive use of the two great intellectual achievements of the first half of the Twentieth Century: general relativity and quantum mechanics; and these are reflected in the reprinted articles. Hawking's key contributions on black hole radiation and the no-boundary condition on the origin of the universe are included. The present compilation of Stephen Hawking's most important work also includes an introduction by him, which guides the reader through the major highlights of the volume. This volume is thus an essential item in any library and will be an important reference source for those interested in theoretical physics and applied mathematics. It is an excellent thing to have so many of Professor Hawking's most important contributions to the theory of black holes and space-time singularities all collected together in one handy volume. I am very glad to have them". Roger Penrose (Oxford) "This was an excellent idea to put the best papers by Stephen

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Hawking together. Even his papers written many years ago remain extremely useful for those who study classical and quantum gravity. By watching the evolution of his ideas one can get a very clear picture of the development of quantum cosmology during the last quarter of this century". Andrei Linde (Stanford) "This review could have been quite short: 'The book contains a selection of 21 of Stephen Hawking's most significant papers with an overview written by the author'. This is the newest way to think about the universe becomes engaging and personal in Big History, Small World: From the Big Bang to You by Cynthia Stokes Brown. Her clear introduction to big history, divided into eight thresholds of time, is the perfect starting point for any reader intrigued by this rich blend of history and science. Big History, Small World is also the first book about big history specifically designed to be used in high school courses and with the free curriculum available from the Big History Project cofounded by Bill Gates and David Christian. Big History, Small World is organized into twelve chapters. In the first chapter, Brown discusses the scientific method. In the last chapter she discusses the different ways people interpret big history and find meaning in it. The other ten chapters are based on eight major turning points, or thresholds, in the cosmic story. One threshold, the emergence of life, gets two chapters, while a discussion of the future fills chapter eleven. This book is not formatted as a traditional textbook, although it can easily be used as one. Each chapter has questions on the frontier of knowledge, as well as suggestions of how the content applies directly to the reader, to answer

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the perennial question: “Why do I have to learn this?”

There are illustrations, charts, diagrams, a glossary and timeline, and short biographies of scientists and historians who have been influential in developing big history. Cynthia Stokes Brown has taught world history in high-school and trained high-school teachers at Dominican University of California, where she piloted big history courses and helped initiate the big history program now required for all freshmen. She is the author of the general-interest book on big history, *Big History: From the Big Bang to the Present* (New York: New Press, 2nd ed. 2012) and also wrote a university-level textbook with David Christian and Craig Benjamin, *Big History: Between Nothing and Everything* (New York: McGraw-Hill, 2014). She is a founding member of the International Big History Association and associate editor of its publication, *Origins*.

Understand how and why we got where we are today with *Big History*. From the formation of our universe to the present day, countless major events have changed the course of life on Earth. *Big History* brings together an incredible range of perspectives, using multiple disciplines including physics and sociology to bring us the story of 13.8 billion years of remarkable history. With a foreword by TED speaker Professor David Christian, *Big History* is a truly unique look at the history of the world. Aligned with the online Big History Project, supported by Bill Gates, *Big History* puts a wide-angle lens on history, and uses stunning visual timelines and special CGI reconstructions to show you history's greatest events like never before. Look back to our

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origins in the stars, and explore everything from the birth of the sun to modern technology, and what the future holds for humans. The perfect gift for everyone interested in every aspect of history, Big History presents the history of the world as you've never seen it. Provides a history of scientific discovery about the birth of the universe.

Tony Rothman offers a primer on the science of the big bang and the questions we still can't answer about the origins of the universe. Enlisting thoughtful analogies and a step-by-step approach, Rothman guides readers through dark matter, dark energy, quantum gravity, and other topics at--and beyond--the cutting edge of cosmology.

A ground-breaking book that takes on skeptics from both sides of the cosmological debate, arguing that science and the Bible are not at odds concerning the origin of the universe. The culmination of a physicist's thirty-five-year journey from MIT to Jerusalem, *Genesis and the Big Bang* presents a compelling argument that the events of the billions of years that cosmologists say followed the Big Bang and those of the first six days described in Genesis are, in fact, one and the same—identical realities described in vastly different terms. In engaging, accessible language, Dr. Schroeder reconciles the observable facts of science with the very essence of Western religion: the biblical account of Creation. Carefully reviewing and interpreting accepted scientific principles, analogous passages of Scripture, and biblical scholarship, Dr. Schroeder arrives at a conclusion so lucid that one wonders why it has taken this long in

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coming. The result for the reader—whether believer or skeptic, Jewish or Christian—is a totally fresh understanding of the key events in the life of the universe.

Most readers think that superheroes began with Superman's appearance in Action Comics No. 1, but that Kryptonian rocket didn't just drop out of the sky. By the time Superman's creators were born, the superhero's most defining elements—secret identities, aliases, disguises, signature symbols, traumatic origin stories, extraordinary powers, self-sacrificing altruism—were already well-rehearsed standards. Superheroes have a sprawling, action-packed history that predates the Man of Steel by decades and even centuries. On the Origin of Superheroes is a quirky, personal tour of the mythology, literature, philosophy, history, and grand swirl of ideas that have permeated western culture in the centuries leading up to the first appearance of superheroes (as we know them today) in 1938. From the creation of the universe, through mythological heroes and gods, to folklore, ancient philosophy, revolutionary manifestos, discarded scientific theories, and gothic monsters, the sweep and scale of the superhero's origin story is truly epic. We will travel from Jane Austen's Bath to Edgar Rice Burroughs's Mars to Owen Wister's Wyoming, with some surprising stops along the way. We'll meet mad scientists, Napoleonic dictators, costumed murderers, diabolical madmen, blackmailers, pirates, Wild West outlaws, eugenicists, the KKK, Victorian do-gooders, detectives, aliens, vampires, and pulp vigilantes (to name just a

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few). Chris Gavalier is your tour guide through this fascinating, sometimes dark, often funny, but always surprising prehistory of the most popular figure in pop culture today. In a way, superheroes have always been with us: they are a fossil record of our greatest aspirations and our worst fears and failings.

George tries to escape a host of problems by going to Switzerland to help his friend Annie's father, Eric, run an experiment exploring the origins of the universe, but faces saboteurs and a mysterious message from George's old nemesis, Reaper, there. Includes scientific essays exploring the latest theories on the origin of the universe.

This title explains how the Universe was born, from the moment when time and space came into existence, to the formation of the first stars, galaxies and planets, and to the evolution of human beings able to contemplate our own origins and ultimate destiny.

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.

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Leading scientists offer a collection of essays that furnish illuminating explanations of recent discoveries in modern astrophysics--from the Big Bang to black holes--the possibility of life on other worlds, and the emerging technologies that make such research possible, accompanied by incisive profiles of such key figures as Carl Sagan and Georges Lemaître. Original.

Keen to learn but short on time? Get to grips with the life of Georges Lemaître in next to no time with this concise guide. 50Minutes.com provides a clear and engaging analysis of the work of Georges Lemaître. An unlikely combination of a priest and a physicist who was responsible for the theories of the expansion of the universe and the primeval atom, which today we accept and know collectively as the Big Bang theory, Lemaître was not widely credited or recognised for his theories when he first developed them. It was not until the accidental discovery of cosmic radiation many years later that the scientific community finally came to accept this man and his ideas. In just 50 minutes you will: •

Understand Georges Lemaître's theories of the expansion of the universe and of the primeval atom, now known as the Big Bang theory • Find out about his life and determination to reconcile his Catholic faith with his interest in physics • Learn about the accidental discoveries that eventually led to the confirmation of his theories ABOUT 50MINUTES.COM | History & Culture 50MINUTES.COM will enable you to quickly understand the main events, people, conflicts and discoveries from world history that have shaped the world we live in today. Our publications present the key information on a wide

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variety of topics in a quick and accessible way that is guaranteed to save you time on your journey of discovery.

#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.

Extend the human story backward for the five thousand years of recorded history and it covers no more than a millionth of a lifetime of the Earth. Yet how do we humans take stock of the history of our planet, and our own place within it? A “vast historical mosaic” (*Publishers Weekly*) rendered engaging and accessible, *Big History* interweaves different disciplines of knowledge to offer an all-encompassing account of history on Earth. Since its publication, Cynthia Brown's “world history on a grand scale” (*Kirkus*) has been translated into nine languages and has helped propel the “big history” concept to viral status. This new edition of Brown's seminal work is more relevant today than ever

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before, as we increasingly must grapple with accelerating rates of change and, ultimately, the legacy we will bequeath to future generations. Here is a pathbreaking portrait of our world, from the birth of the universe from a single point the size of an atom to life on a twenty-first-century planet inhabited by 7 billion people. A revolutionary new account of our universe's creation—and a breathtaking exploration of the landscape from which we sprang—from one of the world's most celebrated cosmologists

This New York Times bestseller "elegantly weaves evidence and insights . . . into a single, accessible historical narrative" (Bill Gates) and presents a captivating history of the universe -- from the Big Bang to dinosaurs to mass globalization and beyond. Most historians study the smallest slivers of time, emphasizing specific dates, individuals, and documents. But what would it look like to study the whole of history, from the big bang through the present day -- and even into the remote future? How would looking at the full span of time change the way we perceive the universe, the earth, and our very existence? These were the questions David Christian set out to answer when he created the field of "Big History," the most exciting new approach to understanding where we have been, where we are, and where we are going. In *Origin Story*, Christian takes readers on a wild ride through the entire 13.8 billion years we've come to know as "history." By focusing on defining events (thresholds), major trends, and profound questions about our origins, Christian exposes the hidden threads that tie everything together -- from the

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creation of the planet to the advent of agriculture, nuclear war, and beyond. With stunning insights into the origin of the universe, the beginning of life, the emergence of humans, and what the future might bring, Origin Story boldly reframes our place in the cosmos.

Cosmology is the study of the origin, size, and evolution of the entire universe. Every culture has developed a cosmology, whether it be based on religious, philosophical, or scientific principles. In this book, the evolution of the scientific understanding of the Universe in Western tradition is traced from the early Greek philosophers to the most modern 21st century view. After a brief introduction to the concept of the scientific method, the first part of the book describes the way in which detailed observations of the Universe, first with the naked eye and later with increasingly complex modern instruments, ultimately led to the development of the "Big Bang" theory. The second part of the book traces the evolution of the Big Bang including the very recent observation that the expansion of the Universe is itself accelerating with time.

The best selling author of FERMAT'S LAST THEOREM and THE CODE BOOK tells the story of the brilliant minds that deciphered the mysteries of the Big Bang.

In modern times, the Bible has become increasingly disconnected from most Christians' understanding of the real world. Cosmology -- the way we think about the universe -- has come to be totally dominated by secular beliefs, such as the Big Bang. Many Christians, including prominent leaders, have therefore felt compelled to "reinterpret" the Bible in the light of big-bang thinking. To its credit, the Big Bang is an interesting and worthwhile scientific theory, and it is the best candidate that materialists have been able to put forward to this point to try to explain the universe without God, but it is

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demonstrably inadequate, to say the least. Big-bang theory cannot explain the origin of the universe or of the significant objects within it (i.e., galaxies, stars, planets, and people). Big-bang theory contains no credible or consistent naturalistic cause to explain what we see. Dismantling the Big Bang reveals these scientific and philosophical weaknesses at the core of big-bang thinking and the contradictions to which they lead. Written on a level that laypeople can understand, it comparatively shows the intellectual superiority of the history of the universe given in the Bible as a basis for our thinking about the cosmos. We need to rediscover how to think about the universe in the only way that makes sense -- from God's perspective, in the light of the history given in His Word. Unfold the history of the universe--from the big bang to the present day! Created in association with the American Museum of Natural History.

The book provides a broad overview of what we currently know about the Origin and Evolution of the Universe. The goal is to be scientifically comprehensive but concise. We trace the origins from the Big Bang and cosmic expansion, to the formation of galaxies, heavy elements, stars and planets as abodes for life. This field has made stunning progress since the first edition of this book. At that time, there were no known planets outside of our own Solar System (compared with the many thousands currently being studied). The origin of massive black holes was pure speculation (compared with the very recent detection of the first gravitational waves from space, produced by the cataclysmic merger of two surprisingly large black holes). And the most important energy in the Universe, now known as the Dark Energy which is accelerating the expansion, had not been discovered. We aim to bring lay readers with an interest in science 'up to speed' on all of these key discoveries that are part of the panorama of cosmic evolution, which has ultimately lead to our

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existence on Earth.

Terms such as "expanding Universe", "big bang", and "initial singularity", are nowadays part of our common language. The idea that the Universe we observe today originated from an enormous explosion (big bang) is now well known and widely accepted, at all levels, in modern popular culture. But what happens to the Universe before the big bang? And would it make any sense at all to ask such a question? In fact, recent progress in theoretical physics, and in particular in String Theory, suggests answers to the above questions, providing us with mathematical tools able in principle to reconstruct the history of the Universe even for times before the big bang. In the emerging cosmological scenario the Universe, at the epoch of the big bang, instead of being a "new born baby" was actually a rather "aged" creature in the middle of its possibly infinitely enduring evolution. The aim of this book is to convey this picture in non-technical language accessible also to non-specialists. The author, himself a leading cosmologist, draws attention to ongoing and future observations that might reveal relics of an era before the big bang.

Why did Ptolemy's theory cause problems for the church? What is the big secret concerning the "?Age" of the earth? Why do many scientists reject the use of design in explaining origins? The seemingly absurd idea that all matter, energy, space, and time once exploded from a point of extreme density has captured the imagination of scientists and laypersons for decades. The big bang has provided a central teaching for the eons of time of "cosmic evolution", undermining the history and cosmology of the Bible. It is a theory that fails, even violating the very physical laws on which it is purportedly based. In this easy-to-read format, authors Alex Williams and John Hartnett explode this naturalistic explanation for the universe, and show that the

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biblical model provides a far better explanation of our origins. This fully indexed, illustrated analysis of the big bang theory is an invaluable help in understanding and countering a world view that is as chaotic and destructive as its name implies. A new look at the first few seconds after the Big Bang—and how research into these moments continues to revolutionize our understanding of our universe Scientists in recent decades have made crucial discoveries about how our cosmos evolved over the past 13.8 billion years. But we still know little about what happened in the first seconds after the Big Bang. *At the Edge of Time* focuses on what we have learned and are striving to understand about this mysterious period at the beginning of cosmic history. Delving into the remarkable science of cosmology, Dan Hooper describes many of the extraordinary questions that scientists are asking about the origin and nature of our world. Hooper examines how the Large Hadron Collider and other experiments recreate the conditions of the Big Bang, how we may finally discover the way dark matter was formed during our universe's first moments, and how, with new telescopes, we are lifting the veil on the era of cosmic inflation. *At the Edge of Time* presents an accessible investigation of our universe and its birth.

Challenges the dominant big bang theory of the origins of the universe, arguing that the universe has neither a beginning nor an end and that it has endured and evolved through an infinite period of time

An accessible and engaging primer on the history of the universe and life on Earth. In this delightful book, kids can follow the fascinating story of how we got from the beginning of the universe to life today on

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the “bright blue ball floating in space” called Earth. They’ll learn about the big bang theory, how our solar system and planet were formed, how life on Earth began in the oceans and moved to land, what happened to the dinosaurs and how humans evolved from apes to build communities all over the planet ... and even travel to space! Kids will be enthralled by this out-of-this-world look at how the universe began! It's time to learn about outer space. Open the pages of this educational book so that your child can see, experience and learn from the wonders and mysteries of the cosmos. Detailed in the following pages are important information on how the universe came to be. Are you interested to know how it all began? If so, then begin reading today!

It Started with a Big BangThe Origin of Earth, You and Everything ElseKids Can Press Ltd
This edition of Science and Creationism summarizes key aspects of several of the most important lines of evidence supporting evolution. It describes some of the positions taken by advocates of creation science and presents an analysis of these claims. This document lays out for a broader audience the case against presenting religious concepts in science classes. The document covers the origin of the universe, Earth, and life; evidence supporting biological evolution; and human evolution. (Contains 31 references.) (CCM)

Two world-renowned scientists present an

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audacious new vision of the cosmos that “steals the thunder from the Big Bang theory.” —Wall Street Journal The Big Bang theory—widely regarded as the leading explanation for the origin of the universe—posits that space and time sprang into being about 14 billion years ago in a hot, expanding fireball of nearly infinite density. Over the last three decades the theory has been repeatedly revised to address such issues as how galaxies and stars first formed and why the expansion of the universe is speeding up today. Furthermore, an explanation has yet to be found for what caused the Big Bang in the first place. In *Endless Universe*, Paul J. Steinhardt and Neil Turok, both distinguished theoretical physicists, present a bold new cosmology. Steinhardt and Turok “contend that what we think of as the moment of creation was simply part of an infinite cycle of titanic collisions between our universe and a parallel world” (Discover). They recount the remarkable developments in astronomy, particle physics, and superstring theory that form the basis for their groundbreaking “Cyclic Universe” theory. According to this theory, the Big Bang was not the beginning of time but the bridge to a past filled with endlessly repeating cycles of evolution, each accompanied by the creation of new matter and the formation of new galaxies, stars, and planets. *Endless Universe* provides answers to longstanding problems with the Big Bang model,

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while offering a provocative new view of both the past and the future of the cosmos. It is a “theory that could solve the cosmic mystery” (USA Today).

Describes the Big Bang scientific theory of creation of the universe.

The great debate over the Big Bang and the quest to understand the fate of the universe Today, the Big Bang is so entrenched in our understanding of the cosmos that to doubt it would seem crazy. But as Paul Halpern shows in *Flashes of Creation*, just decades ago its mere mention caused sparks to fly. At the center of the debate were Russian American physicist George Gamow and British astrophysicist Fred Hoyle. Gamow insisted that a fiery explosion explained how the elements of the universe were created. Attacking the idea as half-baked, Hoyle countered that the universe was engaged in a never-ending process of creation. The battle was fierce. In the end, Gamow turned out to be right -- mostly -- and Hoyle, along with his many achievements, is remembered for giving the theory the silliest possible name: "The Big Bang." Halpern captures the brilliance of both thinkers and reminds us that even those proved wrong have much to teach us about boldness, imagination, and the universe itself.

An award-winning science writer takes us into the lab to answer some of life's biggest questions: How was the universe created? And could we create our own? What if you could become God, with the ability to build a whole new

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universe? As startling as it sounds, modern physics suggests that within the next two decades, scientists may be able to perform this seemingly divine feat—to concoct an entirely new baby universe, complete with its own physical laws, star systems, galaxies, and even intelligent life. A Big Bang in a Little Room takes the reader on a journey through the history of cosmology and unravels—particle by particle, theory by theory, and experiment by experiment—the ideas behind this provocative claim made by some of the most respected physicists alive today. Beyond simply explaining the science, A Big Bang in a Little Room also tells the story of the people who have been laboring for more than thirty years to make this seemingly impossible dream a reality. What has driven them to continue on what would seem, at first glance, to be a quixotic quest? This mind-boggling book reveals that we can nurse other worlds in the tiny confines of a lab, raising a daunting prospect: Was our universe, too, brought into existence by a daring creator?

Hailed by The New York Times for writing “with wonderful clarity about science . . . that effortlessly teaches as it zips along,” nationally bestselling author Robert M. Hazen offers a radical new approach to Earth history in this intertwined tale of the planet’s living and nonliving spheres. With an astrobiologist’s imagination, a historian’s perspective, and a naturalist’s eye, Hazen calls upon twenty-first-century discoveries that have revolutionized geology and enabled scientists to envision Earth’s many iterations in vivid detail—from the mile-high lava tides of its infancy to the early organisms responsible for more than two-thirds of the mineral varieties beneath our feet. Lucid, controversial, and on the cutting edge of its field, The Story of Earth is popular science of the highest order. "A sweeping rip-roaring yarn of immense scope, from the birth of the elements in the stars to meditations on the future habitability of our world." -Science

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"A fascinating story." -Bill McKibben

Our Cosmic Origins, first published in 1998, traces the remarkable story of the emergence of life and intelligence right through the complex evolutionary history of the Universe. Armand Delsemme weaves together a rich tapestry of science, bringing together cosmology, astronomy, geology, biochemistry and biology in this wide-ranging book. In following the complex, chronological story, we discover how the first elements formed in the early Universe, how stars and planets were born, how the first bacteria evolved towards a plethora of plants and animals, and how the coupling of the eye and brain led to the development of self-awareness and, ultimately, intelligence. Professor Delsemme concludes with the tantalising suggestion that the existence of alien life and intelligence is likely, and examines our chances of contacting it. This provocative book provides the general reader with an accessible and wide-ranging account of how life evolved on Earth and how likely it is to exist elsewhere in the Universe. According to a recent survey, the most popular question about science from the general public was: what came before the Big Bang? We all know on some level what the Big Bang is, but we don't know how it became the accepted theory, or how we might know what came before. In *Before the Big Bang*, Brian Clegg (the critically acclaimed author of *Upgrade Me* and *The God Effect*) explores the history of this remarkable concept. From the earliest creation myths, through Hershel's realization that the Milky Way was one of many galaxies, to on-going debates about Black Holes, this is an incredible look at the origins of the universe and the many theories that led to the acceptance of the Big Bang. But in classic scientist fashion Clegg challenges the notion of the "Big Bang" itself, and raises the deep philosophical question of why we might want to rethink the origin of the universe. This is popular science at its best, exploratory, controversial,

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and utterly engrossing.

The Big Bang presents the mystery of how the universe began in a way we can all understand. Written by an astrophysicist, the pages describe what we know--and what we don't--in a compelling, accessible way. Moving out into the farthest reaches of space, then back home on Earth again, this is a picture book Carl Sagan would love, introducing the wonder of our pale blue dot to the youngest readers.

In this fascinating, accessible and thorough study, renowned priest and academic Brendan Purcell combines the latest discoveries in paleoanthropology, genetics, neuroscience, and other sciences with the insights of philosophers and theologians to address the question of the Big Bang of Human Consciousness. Purcell shows the complementarity these disciplines can bring to an understanding of the mystery of human existence.

A half century ago, a shocking Washington Post headline claimed that the world began in five cataclysmic minutes rather than having existed for all time; a skeptical scientist dubbed the maverick theory the Big Bang. In this amazingly comprehensible history of the universe, Simon Singh decodes the mystery behind the Big Bang theory, lading us through the development of one of the most extraordinary, important, and awe-inspiring theories in science.

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