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BRIAN
GREENE

Author of THE ELEGANT UNIVERSE
and THE FABRIC OF THE COSMOS

THE HIDDEN
REALITY

PARALLEL UNIVERSES
AND THE DEEP LAWS OF THE COSMOS

"Brian Greene has a gift for elucidating big ideas... Captures and engages
the imagination. It's rewarding to read him." —*THE NEW YORK TIMES*

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The Hidden Reality-Brian Greene 2011-01-25
The bestselling author of *The Elegant Universe* and *The Fabric of the Cosmos* tackles perhaps the most mind-bending question in modern physics and cosmology: Is our universe the only universe? There was a time when "universe" meant all there is. Everything. Yet, a number of theories are converging on the possibility that our universe may be but one among many parallel universes populating a vast multiverse. Here, Brian Greene, one of our foremost physicists and science writers, takes us on a breathtaking journey to a multiverse comprising an endless series of big bangs, a multiverse with duplicates of every one of us, a multiverse populated by vast sheets of spacetime, a multiverse in which all we consider real are holographic illusions, and even a multiverse made purely of math--and reveals the reality hidden within each. Using his trademark wit and precision, Greene presents a thrilling survey of cutting-edge physics and confronts the inevitable question: How can fundamental science progress if great swaths of reality lie beyond our reach? *The Hidden Reality* is a remarkable adventure through a world more vast and strange than anything we could have imagined.

The Hidden Reality-Brian Greene 2012-02-01 'A writer of exceptional clarity and charm . . . every chapter opens level after level of previously unimaginable, mind-expanding realities' Oliver Sacks There was a time when 'universe' meant all there is. Everything. Yet, as Brian Greene's extraordinary book shows, ours may be just one

universe among many, like endless reflections in a mirror. He takes us on a captivating exploration of parallel worlds - from a multiverse where an infinite number of your doppelgängers are reading this sentence, to vast oceans of bubble universes and even multiverses made of mathematics - showing just how much of reality's true nature may be hidden within them. 'Exciting and rewarding . . . captures and engages the imagination . . . Greene has a gift for elucidating big ideas' *The New York Times* 'The book serves well as an introduction to the multiverse and will open up many people's eyes' John Gribbin 'Few living writers write so lucidly . . . Greene might be the best intermediary I've found between the sparkling, absolute zero world of mathematics and the warm, clumsy world of human language' *Boston Globe*

The Hidden Reality-Brian Greene 2011-06-09
In this exhilarating new book, Brian Greene explores our most current understanding of the universe, its deepest laws of nature, and our continuing quest to know more. *The Hidden Reality* reveals how major developments in different branches of fundamental theoretical physics-relativistic, quantum, cosmological, unified, computational - have all led us to consider one or another variety of parallel universe. In some, they are separated from us by enormous stretches of space or time, in others they're hovering millimetres away, in others still the very notion of their location proves to be a concept beyond our reach. Most extraordinarily, Greene shows how all of these parallel universe proposals emerge unbidden from the mathematics of theories developed to explain conventional data and observations of the

cosmos. This is a life-changing book that gives us a true sense of the astounding possibilities of modern scientific investigation.

Parallel Worlds-Michio Kaku 2006 Sheds new light on discoveries that have revolutionized the field of cosmology and transformed understanding of the universe, offering an explanation of the multiverse M-theory and its implications in terms of the fate of our own universe.

Our Mathematical Universe-Max Tegmark 2014-01-07 Max Tegmark leads us on an astonishing journey through past, present and future, and through the physics, astronomy and mathematics that are the foundation of his work, most particularly his hypothesis that our physical reality is a mathematical structure and his theory of the ultimate multiverse. In a dazzling combination of both popular and groundbreaking science, he not only helps us grasp his often mind-boggling theories, but he also shares with us some of the often surprising triumphs and disappointments that have shaped his life as a scientist. Fascinating from first to last—this is a book that has already prompted the attention and admiration of some of the most prominent scientists and mathematicians.

Icarus at the Edge of Time-Brian Greene 2008 A futuristic reimagining of the classic Greek myth, as a boy ventures through deep space and challenges the awesome power of black holes. The beauty of the book lies in the images, provided by NASA and the Hubble Space telescope, and printed on board rather than paper. On board pages.

In Search of the Multiverse-John Gribbin 2010 We once had to abandon the idea of earth being at the centre of the universe. Now, we need to confront an even more profound possibility: the universe itself might just be one universe among many. In Search of the Multiverse takes us on an extraordinary journey, examining the most fundamental questions in science. What are the boundaries of our universe? Can there be different physical laws from the ones we know? Are there in fact other universes? Do we really live in a multiverse? This book is a search - the ultimate search - exploring the frontiers of

reality. Ideas that were once science fiction have now come to dominate modern physics. And, as John Gribbin shows, there is increasing evidence that there really is more to the universe than we can see. Gribbin guides us through the different competing theories (there is more than one multiverse!) revealing what they have in common and what we can come to expect. He gives a brilliant tour of the current state of cosmology. John Gribbin is our best, most accessible guide to the big questions of science. And there is no bigger question than our search for the multiverse.

The Fabric of Reality-David Deutsch 2011-04-14 An extraordinary and challenging synthesis of ideas uniting Quantum Theory, and the theories of Computation, Knowledge and Evolution, Deutsch's extraordinary book explores the deep connections between these strands which reveal the fabric of reality in which human actions and ideas play essential roles.

The Elegant Universe-Brian Greene 2000 Introduces the superstring theory that attempts to unite general relativity and quantum mechanics

Parallel Universes-Fred Alan Wolf 1990-02-15 Explores the degree to which a belief in parallel universes shapes the thinking of contemporary physicists in areas as diverse as relativity, psychology, quantum mechanics, and cosmology

Something Deeply Hidden-Sean Carroll 2019-09-10 INSTANT NEW YORK TIMES BESTSELLER A Science News favorite science book of 2019 As you read these words, copies of you are being created. Sean Carroll, theoretical physicist and one of this world's most celebrated writers on science, rewrites the history of 20th century physics. Already hailed as a masterpiece, Something Deeply Hidden shows for the first time that facing up to the essential puzzle of quantum mechanics utterly transforms how we think about space and time. His reconciling of quantum mechanics with Einstein's theory of relativity changes, well, everything. Most physicists haven't even recognized the uncomfortable truth: physics has been in crisis since 1927. Quantum mechanics has always had obvious gaps—which have come to be simply

ignored. Science popularizers keep telling us how weird it is, how impossible it is to understand. Academics discourage students from working on the "dead end" of quantum foundations. Putting his professional reputation on the line with this audacious yet entirely reasonable book, Carroll says that the crisis can now come to an end. We just have to accept that there is more than one of us in the universe. There are many, many Sean Carrolls. Many of every one of us. Copies of you are generated thousands of times per second. The Many Worlds Theory of quantum behavior says that every time there is a quantum event, a world splits off with everything in it the same, except in that other world the quantum event didn't happen. Step-by-step in Carroll's uniquely lucid way, he tackles the major objections to this otherworldly revelation until his case is inescapably established. Rarely does a book so fully reorganize how we think about our place in the universe. We are on the threshold of a new understanding—of where we are in the cosmos, and what we are made of.

The Fabric of the Cosmos-Brian Greene 2007-12-18 From Brian Greene, one of the world's leading physicists and author of the Pulitzer Prize finalist *The Elegant Universe*, comes a grand tour of the universe that makes us look at reality in a completely different way. Space and time form the very fabric of the cosmos. Yet they remain among the most mysterious of concepts. Is space an entity? Why does time have a direction? Could the universe exist without space and time? Can we travel to the past? Greene has set himself a daunting task: to explain non-intuitive, mathematical concepts like String Theory, the Heisenberg Uncertainty Principle, and Inflationary Cosmology with analogies drawn from common experience. From Newton's unchanging realm in which space and time are absolute, to Einstein's fluid conception of spacetime, to quantum mechanics' entangled arena where vastly distant objects can instantaneously coordinate their behavior, Greene takes us all, regardless of our scientific backgrounds, on an irresistible and revelatory journey to the new layers of reality that modern physics has discovered lying just beneath the surface of our everyday world.

Until the End of Time-Brian Greene
2020-02-18 Instant New York Times Bestseller A

captivating exploration of deep time and humanity's search for purpose, from the world-renowned physicist and best-selling author of *The Elegant Universe*. "Few humans share Greene's mastery of both the latest cosmological science and English prose." —The New York Times (A Notable Book of 2020) *Until the End of Time* is Brian Greene's breathtaking new exploration of the cosmos and our quest to find meaning in the face of this vast expanse. Greene takes us on a journey from the big bang to the end of time, exploring how lasting structures formed, how life and mind emerged, and how we grapple with our existence through narrative, myth, religion, creative expression, science, the quest for truth, and a deep longing for the eternal. From particles to planets, consciousness to creativity, matter to meaning—Brian Greene allows us all to grasp and appreciate our fleeting but utterly exquisite moment in the cosmos.

Hyperspace-Michio Kaku 2016-04-20 Reissued in new covers, this is the run-away bestseller from one of the world's leading theoretical physicists. Are there other dimensions beyond our own? Is time travel possible? Michio Kaku takes us on a tour of the most exciting work in modern physics, including research into the 10th dimension, time warps, and multiple universes, to outline what may be the leading candidate for the Theory of Everything.

Origins: Fourteen Billion Years of Cosmic Evolution-Neil deGrasse Tyson 2005-10-17 "Who can ask for better cosmic tour guides to the universe than Drs. Tyson and Goldsmith?" —Michio Kaku, author of *Hyperspace* and *Parallel Worlds* Our true origins are not just human, or even terrestrial, but in fact cosmic. Drawing on recent scientific breakthroughs and the current cross-pollination among geology, biology, astrophysics, and cosmology, ?Origins? explains the soul-stirring leaps in our understanding of the cosmos. From the first image of a galaxy birth to Spirit Rover's exploration of Mars, to the discovery of water on one of Jupiter's moons, coauthors Neil deGrasse Tyson and Donald Goldsmith conduct a galvanizing tour of the cosmos with clarity and exuberance.

Cosmosapiens-John Hands 2017-10-31
Specialist scientific fields are developing at

incredibly swift speeds, but what can they really tell us about how the universe began and how we as humans evolved to play such a dominant role on Earth? John Hands' extraordinarily ambitious book merges scientific knowledge from multiple disciplines and evaluates without bias or preconception all the theories and evidence about the origin and evolution of matter, consciousness, and mankind. The result, a "pearl of dialectical reasoning" (Publishers Weekly, starred review), provides the most comprehensive account yet of current ideas such as cosmic inflation, dark energy, the selfish gene, and neurogenetic determinism. In the clearest possible prose it differentiates the firmly established from the speculative and examines the claims of various fields to approach a unified theory of everything. In doing so it challenges the orthodox consensus in those branches of cosmology, biology, and neuroscience that have ossified into dogma. Its "shocking and invigorating" analysis (Daily Telegraph, A Best Science Book of 2015) reveals underlying patterns of cooperation, complexification, and convergence that lead to the unique emergence in humans of a self-reflective consciousness that enables us to determine our future evolution. This groundbreaking book is destined to become a classic of scientific thinking.

Farewell to Reality-Jim Baggott 2013-08-06
From acclaimed science author Jim Baggot, a lively, provocative, and "intellectually gratifying" critique of modern theoretical physics (The Economist). Where does one draw the line between solid science and fairy-tale physics? Jim Baggott argues that there is no observational or experimental evidence for many of the ideas of modern theoretical physics: super-symmetric particles, super strings, the multiverse, the holographic principle, or the anthropic cosmological principle. Unafraid to challenge prominent theorists, Baggott offers engaging portraits of many central figures of modern physics, including Stephen Hawking, Paul Davies, John D. Barrow, Brian Greene, and Leonard Susskind. Informed, comprehensive, and balanced, Farewell to Reality discusses the latest ideas about the nature of physical reality while clearly distinguishing between fact and fantasy, providing essential and entertaining reading for everyone interested in what we know and don't know about the nature of the universe and reality itself.

Programming the Universe-Seth Lloyd
2006-03-14 Is the universe actually a giant quantum computer? According to Seth Lloyd, the answer is yes. All interactions between particles in the universe, Lloyd explains, convey not only energy but also information—in other words, particles not only collide, they compute. What is the entire universe computing, ultimately? "Its own dynamical evolution," he says. "As the computation proceeds, reality unfolds."
Programming the Universe, a wonderfully accessible book, presents an original and compelling vision of reality, revealing our world in an entirely new light.

The Dream Universe-David Lindley 2020-03-17
A vivid and captivating narrative about how modern science broke free of ancient philosophy, and how theoretical physics is returning to its unscientific roots. In the early seventeenth century Galileo broke free from the hold of ancient Platonic and Aristotelian philosophy. He drastically changed the framework through which we view the natural world when he asserted that we should base our theory of reality on what we can observe rather than pure thought. In the process, he invented what we would come to call science. This set the stage for all the breakthroughs that followed—from Kepler to Newton to Einstein. But in the early twentieth century when quantum physics, with its deeply complex mathematics, entered into the picture, something began to change. Many physicists began looking to the equations first and physical reality second. As we investigate realms further and further from what we can see and what we can test, we must look to elegant, aesthetically pleasing equations to develop our conception of what reality is. As a result, much of theoretical physics today is something more akin to the philosophy of Plato than the science to which the physicists are heirs. In The Dream Universe, Lindley asks what is science when it becomes completely untethered from measurable phenomena?

The Lost Book of Adana Moreau-Michael Zapata 2020-02-04 *Winner of the Chicago Review of Books Award for Fiction* A Heartland Booksellers Award Nominee An NPR Best Book of the Year A BookPage Best Book of the Year A Library Journal Best Winter/Spring Debut of 2020 A Most Anticipated Book of 2020 from the

Boston Globe and The Millions A Best Book of February 2020 at Salon, The Millions, LitHub and Vol 1. Brooklyn "A stunner—equal parts epic and intimate, thrilling and elegiac."—Laura Van den Berg, author of The Third Hotel The mesmerizing story of a Latin American science fiction writer and the lives her lost manuscript unites decades later in post-Katrina New Orleans In 1929 in New Orleans, a Dominican immigrant named Adana Moreau writes a science fiction novel. The novel earns rave reviews, and Adana begins a sequel. Then she falls gravely ill. Just before she dies, she destroys the only copy of the manuscript. Decades later in Chicago, Saul Drower is cleaning out his dead grandfather's home when he discovers a mysterious manuscript written by none other than Adana Moreau. With the help of his friend Javier, Saul tracks down an address for Adana's son in New Orleans, but as Hurricane Katrina strikes they must head to the storm-ravaged city for answers. What results is a brilliantly layered masterpiece—an ode to home, storytelling and the possibility of parallel worlds.

Parallel Universes-David B. Bohl 2017-12 In this poignant and powerful memoir, David B. Bohl reveals the inner turmoil and broad spectrum of warring emotions--shame, anger, triumph, shyness, pride--he experienced growing up as a "relinquished" boy. Adopted at birth by a prosperous family, Bohl battled throughout his earlier years to keep up a good front and surpass expectations as he tried desperately to fit in. An over-achiever at everything he undertook, whether in sailing, academics, or life as a trader on the Chicago Exchange floor, he continued his search for happiness, often finding it in a bottle or pill, and ultimately becoming a raging and wealthy alcoholic. Not until David marries and has children of his own does he feel compelled to search for his birth parents to discover if genetics played a role in the well-being of his offspring. "Baby Boy Bender," as he was labeled in the adoption papers, had been born to a red-haired co-ed who struggled with alcoholism and an athlete who later died of a brain tumor. After several severe seizures and frequent blackouts, it was time to make a drastic change and admit his addiction. Raised with no religious teachings, David struggled with traditional recovery fellowships and sought out secular supports, where he finally fit in. This support allowed him to learn the stark facts about mental health and addiction, as well as the monumental issues many "relinquishees" need to overcome to find

peace and a quality of life they deserve.

The Universe--solved!- 2007

The Many-Worlds Interpretation of Quantum Mechanics-Bryce Seligman Dewitt 2015-03-08 A novel interpretation of quantum mechanics, first proposed in brief form by Hugh Everett in 1957, forms the nucleus around which this book has developed. In his interpretation, Dr. Everett denies the existence of a separate classical realm and asserts the propriety of considering a state vector for the whole universe. Because this state vector never collapses, reality as a whole is rigorously deterministic. This reality, which is described jointly by the dynamical variables and the state vector, is not the reality customarily perceived; rather, it is a reality composed of many worlds. By virtue of the temporal development of the dynamical variables, the state vector decomposes naturally into orthogonal vectors, reflecting a continual splitting of the universe into a multitude of mutually unobservable but equally real worlds, in each of which every good measurement has yielded a definite result, and in most of which the familiar statistical quantum laws hold. The volume contains Dr. Everett's short paper from 1957, "'Relative State' Formulation of Quantum Mechanics," and a far longer exposition of his interpretation, entitled "The Theory of the Universal Wave Function," never before published. In addition, other papers by Wheeler, DeWitt, Graham, and Cooper and Van Vechten provide further discussion of the same theme. Together, they constitute virtually the entire world output of scholarly commentary on the Everett interpretation. Originally published in 1973. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

Genesis of the Cosmos-Paul A. LaViolette 2004-04-15 Paul LaViolette reveals astonishing

parallels between cutting edge scientific thought and early creation myths, and how these myths encode a theory of cosmology in which matter is continually growing from seeds of order that emerge spontaneously from chaos. Exposing the contradictions of the Big Bang theory, *LaViolette* leads us beyond the restrictive metaphors of modern science and into a new science for the 21st century.

A Universe from Nothing-Lawrence M. Krauss 2012-01-10 Bestselling author and acclaimed physicist Lawrence Krauss offers a paradigm-shifting view of how everything that exists came to be in the first place. "Where did the universe come from? What was there before it? What will the future bring? And finally, why is there something rather than nothing?" One of the few prominent scientists today to have crossed the chasm between science and popular culture, Krauss describes the staggeringly beautiful experimental observations and mind-bending new theories that demonstrate not only can something arise from nothing, something will always arise from nothing. With a new preface about the significance of the discovery of the Higgs particle, *A Universe from Nothing* uses Krauss's characteristic wry humor and wonderfully clear explanations to take us back to the beginning of the beginning, presenting the most recent evidence for how our universe evolved—and the implications for how it's going to end. Provocative, challenging, and delightfully readable, this is a game-changing look at the most basic underpinning of existence and a powerful antidote to outmoded philosophical, religious, and scientific thinking.

Hiding in the Mirror-Lawrence M. Krauss 2006-11-28 An exploration of mankind's fascination with worlds beyond our own-by the bestselling author of *The Physics of Star Trek* Lawrence Krauss -an international leader in physics and cosmology-examines our long and ardent romance with parallel universes, veiled dimensions, and regions of being that may extend tantalizingly beyond the limits of our perception. Krauss examines popular culture's current embrace (and frequent misunderstanding) of such topics as black holes, life in other dimensions, strings, and some of the more extraordinary new theories that propose the existence of vast extra dimensions alongside our own. BACKCOVER: "An astonishing and

brilliantly written work of popular science." - Science a GoGo "A brilliant, thrilling book . . . You'll have so much fun reading that you'll hardly notice you're getting a primer on contemporary physics and cosmology." -Walter Isaacson, author of *Benjamin Franklin: An American Life*

Mysterious Realities-Robert Moss 2018-09-14 Prepare to Encounter Goddesses, Daimons & Parallel Worlds Sigmund Freud called dreams the "royal road to the unconscious," but to bestselling author and world-renowned dream explorer Robert Moss, they are more: portals to the imaginal realm, a higher reality that exists at the intersection of time and eternity. The traveler's tales in this book are just-so stories in the sense that they spring from direct experience in the many worlds. As you journey from the temple of the Great Goddess at Ephesus to an amazing chance encounter on an airplane, from Dracula country in Transylvania to the astral realm of Luna, you'll confirm that the doors to the otherworld open from wherever you are. You'll see what it means to live on a mythic edge and to make a deal with your personal Death for a life extension. At any moment, you may fall, like the author, into the lap of a goddess or the jaws of an archetype.

An Infinite Number Of Parallel Universes-Randy Ribay 2015-09-04 Four friends from wildly different backgrounds have bonded over *Dungeons & Dragons* since the sixth grade. Now they're facing senior year and a major shift in their own universes. Math whiz Archie is struggling with his parents' divorce after his dad comes out as gay. Mari is terrified of her adoptive mother's life-altering news. Dante is carrying around a huge secret that is proving impossible to keep hidden. And when Sam gets dumped by the love of his life, everyone is ready to join him on a cross-country quest to win her back. The four quickly discover that the road is not forgiving, and that real life is no game. They must face a test of friendship where the stakes are more than just a roll of the dice--they are life and death.

The Road to Reality-Roger Penrose 2021-06-09 From one of our greatest living scientists, a magnificent book that provides, for the serious lay reader, the most comprehensive and sophisticated account we have yet had of the

physical universe and the essentials of its underlying mathematical theory. Since the earliest efforts of the ancient Greeks to find order amid the chaos around us, there has been continual accelerated progress toward understanding the laws that govern our universe. And the particularly important advances made by means of the revolutionary theories of relativity and quantum mechanics have deeply altered our vision of the cosmos and provided us with models of unprecedented accuracy. What Roger Penrose so brilliantly accomplishes in this book is threefold. First, he gives us an overall narrative description of our present understanding of the universe and its physical behaviors—from the unseeable, minuscule movement of the subatomic particle to the journeys of the planets and the stars in the vastness of time and space. Second, he evokes the extraordinary beauty that lies in the mysterious and profound relationships between these physical behaviors and the subtle mathematical ideas that explain and interpret them. Third, Penrose comes to the arresting conclusion—as he explores the compatibility of the two grand classic theories of modern physics—that Einstein’s general theory of relativity stands firm while quantum theory, as presently constituted, still needs refashioning. Along the way, he talks about a wealth of issues, controversies, and phenomena; about the roles of various kinds of numbers in physics, ideas of calculus and modern geometry, visions of infinity, the big bang, black holes, the profound challenge of the second law of thermodynamics, string and M theory, loop quantum gravity, twistors, and educated guesses about science in the near future. In *The Road to Reality* he has given us a work of enormous scope, intention, and achievement—a complete and essential work of science

A Taste for Vengeance-Martin Walker
2019-06-25 When a British tourist fails to turn up for a luxurious cooking vacation in the idyllic village in the south of France that Bruno Courrèges calls home, the chief of police is quickly on the case. Monika Felder is nowhere to be found, and her husband, a retired British general, is unreachable. Not long after Bruno discovers that Monika was traveling with a mysterious Irishman with a background in intelligence, the two turn up dead. Was she running away? How much does her husband really know? Meanwhile, the star of the girls' rugby team is pregnant, jeopardizing her chances

of being named to the French national squad. Bruno's search for the truth in both cases leads him in some unexpected directions—but as ever, he and his friends find time along the way to savor the culinary delights of the region.

Love and Math-Edward Frenkel 2013-10-01 An awesome, globe-spanning, and New York Times best-selling journey through the beauty and power of mathematics What if you had to take an art class in which you were only taught how to paint a fence? What if you were never shown the paintings of van Gogh and Picasso, weren't even told they existed? Alas, this is how math is taught, and so for most of us it becomes the intellectual equivalent of watching paint dry. In *Love and Math*, renowned mathematician Edward Frenkel reveals a side of math we've never seen, suffused with all the beauty and elegance of a work of art. In this heartfelt and passionate book, Frenkel shows that mathematics, far from occupying a specialist niche, goes to the heart of all matter, uniting us across cultures, time, and space. *Love and Math* tells two intertwined stories: of the wonders of mathematics and of one young man's journey learning and living it. Having braved a discriminatory educational system to become one of the twenty-first century's leading mathematicians, Frenkel now works on one of the biggest ideas to come out of math in the last 50 years: the Langlands Program. Considered by many to be a Grand Unified Theory of mathematics, the Langlands Program enables researchers to translate findings from one field to another so that they can solve problems, such as Fermat's last theorem, that had seemed intractable before. At its core, *Love and Math* is a story about accessing a new way of thinking, which can enrich our lives and empower us to better understand the world and our place in it. It is an invitation to discover the magic hidden universe of mathematics.

Warped Passages-Lisa Randall 2009-11-10 The universe has many secrets. It may hide additional dimensions of space other than the familiar three we recognize. There might even be another universe adjacent to ours, invisible and unattainable . . . for now. *Warped Passages* is a brilliantly readable and altogether exhilarating journey that tracks the arc of discovery from early twentieth-century physics to the razor's edge of modern scientific theory. One of the

world's leading theoretical physicists, Lisa Randall provides astonishing scientific possibilities that, until recently, were restricted to the realm of science fiction. Unraveling the twisted threads of the most current debates on relativity, quantum mechanics, and gravity, she explores some of the most fundamental questions posed by Nature—taking us into the warped, hidden dimensions underpinning the universe we live in, demystifying the science of the myriad worlds that may exist just beyond our own.

The Number of the Heavens-Tom Siegfried 2019-09-17 One of the most controversial, cutting-edge ideas in cosmology—the possibility that there exist multiple parallel universes—in fact has a long history. Tom Siegfried reminds us that the size and number of the heavens have been contested since ancient times. His story offers deep lessons about the nature of science and the quest for understanding.

Hidden Harmonies-Ellen Kaplan 2011-01-04 The Harvard mathematician authors of *The Art of the Infinite* present a history of the famous relation "A squared plus B squared equals C squared" that assesses its contributors from da Vinci to the Freemasons while analyzing its numerous proofs and applications.

Proofiness-Charles Seife 2011 Demonstrates how mathematical misinformation pervades—and shapes—people's daily lives and is used to bring down government officials, convict the innocent, and ruin the U.S. economy.

The Marbury Lens-Andrew Smith 2010-11-09 A 16-year-old boy who escapes a kidnapper thinks he can forget his trauma, but instead, he loses his grip on reality and believes he's part of an alternate world called Marbury. Sixteen-year-old Jack gets drunk and is in the wrong place at the wrong time. He is kidnapped. He escapes, narrowly. The only person he tells is his best friend, Conner. When they arrive in London as planned for summer break, a stranger hands Jack a pair of glasses. Through the lenses, he sees another world called Marbury. There is war in Marbury. It is a desolate and murderous place where Jack is responsible for the survival of two younger boys. Conner is there, too. But he's trying to kill them. Meanwhile, Jack is falling in

love with an English girl, and afraid he's losing his mind. Andrew Smith has written his most beautiful and personal novel yet, as he explores the nightmarish outer limits of what trauma can do to our bodies and our minds. "An engrossing horror/fantasy hybrid...Nightmarish imagery is chillingly effective, and the pacing superbly builds suspense." -- Kirkus Reviews

Taking the Quantum Leap-Fred A. Wolf 2010-10-19 This book entertainingly traces the history of physics from the observations of the early Greeks through the discoveries of Galileo and Newton to the dazzling theories of such scientists as Planck, Einstein, Bohr, and Bohm. This humanized view of science opens up the mind-stretching visions of how quantum mechanics, God, human thought, and will are related, and provides profound implications for our understanding of the nature of reality and our relationship to the cosmos.

Many Worlds in One-Alex Vilenkin 2007-07-10 A Leading Figure in the Development of the New Cosmology Explains What It All Means Among his peers, Alex Vilenkin is regarded as one of the most imaginative and creative cosmologists of our time. His contributions to our current understanding of the universe include a number of novel ideas, two of which—eternal cosmic inflation and the quantum creation of the universe from nothing—have provided a scientific foundation for the possible existence of multiple universes. With this book—his first for the general reader—Vilenkin joins another select group: the handful of first-rank scientists who are equally adept at explaining their work to nonspecialists. With engaging, well-paced storytelling, a droll sense of humor, and a generous sprinkling of helpful cartoons, he conjures up a bizarre and fascinating new worldview that—to paraphrase Niels Bohr—just might be crazy enough to be true.

The 4 Percent Universe-Richard Panek 2011-01-10 The epic, behind-the-scenes story of an astounding gap in our scientific knowledge of the cosmos. In the past few years, a handful of scientists have been in a race to explain a disturbing aspect of our universe: only 4 percent of it consists of the matter that makes up you, me, our books, and every planet, star, and galaxy. The rest—96 percent of the universe—is

completely unknown. Richard Panek tells the dramatic story of how scientists reached this conclusion, and what they're doing to find this "dark" matter and an even more bizarre substance called dark energy. Based on in-depth, on-site reporting and hundreds of interviews—with everyone from Berkeley's feisty Saul Perlmutter and Johns Hopkins's meticulous Adam Riess to the quietly revolutionary Vera Rubin—the book offers an intimate portrait of the bitter rivalries and fruitful collaborations, the

eureka moments and blind alleys, that have fueled their search, redefined science, and reinvented the universe.

Science and Ultimate Reality-John D. Barrow
2004-04-22 Publisher Description