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Hyperspace Dark Matter and the Dinosaurs Einstein's Cosmos: How Albert Einstein's Vision Transformed Our Understanding of Space and Time (Great Discoveries) Antimatter The Best American Science and Nature Writing 2020 Quantum Parallel Worlds Against the Day The Trouble with Physics Quantum Field Theory The Future of the Mind Black Holes, Wormholes and Time Machines, Second Edition Six Not-So-Easy Pieces Time Travel and Warp Drives The Best American Science Writing 2012 Hyperspace Quantum Buddhism : Dancing in Emptiness - Reality Revealed at the Interface of Quantum Physics and Buddhist Philosophy Star Wars: Light of the Jedi (The High Republic) In Retrospect String Theory Demystified Hyperspace Physics of the Impossible To Win a Nuclear War Physics of the Future Parallel Time Design in Nature Parishioner Visions Beyond Einstein Black Holes and Time Warps Euclid's Window Music by the Numbers Big Bang Quantum Energetics Introduction to Superstrings Finding our Place in the Universe The Future of Humanity Quantum Field Theory The Hidden Reality Weather, Macroweather, and the Climate

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Hyperspace

Quantum energetics is based on new fundamental discoveries of quantum of space-time (quanton) and super-strong electromagnetic interaction (SEI) made by Leonov in 1996. Quantum energetics is a more general concept in energetics, which includes both the new energetic cycles, and traditional ones, including nuclear energetics.

Dark Matter and the Dinosaurs

Imagine, if you can, the world in the year 2100. In *Physics of the Future*, Michio Kaku—the New York Times bestselling author of *Physics of the Impossible*—gives us a stunning, provocative, and exhilarating vision of the coming century based on interviews with over three hundred of the world's top scientists who are already inventing the future in their labs. The result is the most authoritative and scientifically accurate description of the revolutionary developments taking place in medicine, computers, artificial intelligence, nanotechnology, energy production, and astronautics. In all likelihood, by 2100 we will control computers via tiny brain sensors and, like magicians, move objects around with the power of our minds. Artificial intelligence will be dispersed throughout the environment, and Internet-enabled contact lenses will allow us to access the world's information base or

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conjure up any image we desire in the blink of an eye. Meanwhile, cars will drive themselves using GPS, and if room-temperature superconductors are discovered, vehicles will effortlessly fly on a cushion of air, coasting on powerful magnetic fields and ushering in the age of magnetism. Using molecular medicine, scientists will be able to grow almost every organ of the body and cure genetic diseases. Millions of tiny DNA sensors and nanoparticles patrolling our blood cells will silently scan our bodies for the first sign of illness, while rapid advances in genetic research will enable us to slow down or maybe even reverse the aging process, allowing human life spans to increase dramatically. In space, radically new ships—needle-sized vessels using laser propulsion—could replace the expensive chemical rockets of today and perhaps visit nearby stars. Advances in nanotechnology may lead to the fabled space elevator, which would propel humans hundreds of miles above the earth's atmosphere at the push of a button. But these astonishing revelations are only the tip of the iceberg. Kaku also discusses emotional robots, antimatter rockets, X-ray vision, and the ability to create new life-forms, and he considers the development of the world economy. He addresses the key questions: Who are the winner and losers of the future? Who will have jobs, and which nations will prosper? All the while, Kaku illuminates the rigorous scientific principles, examining the rate at which certain technologies are likely to mature, how far they can advance, and what their ultimate limitations and hazards are. Synthesizing a vast amount of information to construct an exciting look at the years leading up to 2100, *Physics of the Future* is a thrilling, wondrous

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ride through the next 100 years of breathtaking scientific revolution.

Einstein's Cosmos: How Albert Einstein's Vision Transformed Our Understanding of Space and Time (Great Discoveries)

Reveals how recurring patterns in nature are accounted for by a single governing principle of physics, explaining how all designs in the world from biological life to inanimate systems evolve in a sequence of ever-improving designs that facilitate flow.

Antimatter

Long before the First Order, before the Empire, before even The Phantom Menace . . . Jedi lit the way for the galaxy in The High Republic It is a golden age. Intrepid hyperspace scouts expand the reach of the Republic to the furthest stars, worlds flourish under the benevolent leadership of the Senate, and peace reigns, enforced by the wisdom and strength of the renowned order of Force users known as the Jedi. With the Jedi at the height of their power, the free citizens of the galaxy are confident in their ability to weather any storm But the even brightest light can cast a shadow, and some storms defy any preparation. When a shocking catastrophe in hyperspace tears a ship to pieces, the flurry of shrapnel emerging from the

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disaster threatens an entire system. No sooner does the call for help go out than the Jedi race to the scene. The scope of the emergence, however, is enough to push even Jedi to their limit. As the sky breaks open and destruction rains down upon the peaceful alliance they helped to build, the Jedi must trust in the Force to see them through a day in which a single mistake could cost billions of lives. Even as the Jedi battle valiantly against calamity, something truly deadly grows beyond the boundary of the Republic. The hyperspace disaster is far more sinister than the Jedi could ever suspect. A threat hides in the darkness, far from the light of the age, and harbors a secret that could strike fear into even a Jedi's heart.

The Best American Science and Nature Writing 2020

Edited by Michio Kaku, cofounder of string field theory, theoretical physicist, and New York Times bestselling author, *The Best American Science Writing 2012* is the latest edition of the popular annual series dedicated to collecting the most crucial, thought-provoking, and engaging science writing of the year. Culled from a wide variety of publications, these selections of outstanding journalism cover the full spectrum of scientific inquiry, providing a comprehensive overview of the most compelling, relevant, and exciting developments in the world of science. From climate change to public health, the origins of the universe to the wiring of the human brain, parallel universes to artificial intelligence, the world of science is vast and diverse, offering endless challenges and possibilities that provide new

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understanding of ourselves, our world, and our universe. Provocative and engaging, *The Best American Science Writing 2012* reveals just how far science has brought us and where it is headed next.

Quantum

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.

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Parallel Worlds

How music has influenced mathematics, physics, and astronomy from ancient Greece to the twentieth century Music is filled with mathematical elements. The works of Bach are often said to possess a math-like logic, and Arnold Schoenberg, Iannis Xenakis, and Karlheinz Stockhausen wrote music explicitly based on mathematical principles. Yet Eli Maor argues that it is music that has had the greater influence on mathematics, not the other way around. Starting with Pythagoras, proceeding through Schoenberg, and bringing the story up to the present with contemporary string theory, *Music by the Numbers* tells a fascinating story of composers, scientists, inventors, and eccentrics who have played a role in the age-old relationship between music, mathematics, and the physical sciences. Weaving compelling stories of historical episodes with Maor's personal reflections as a mathematician and lover of classical music, this book will delight anyone who loves math and music.

Against the Day

Through *Euclid's Window* Leonard Mlodinow brilliantly and delightfully leads us on a journey through five revolutions in geometry, from the Greek concept of parallel lines to the latest notions of hyperspace. Here is an altogether new, refreshing,

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alternative history of math revealing how simple questions anyone might ask about space -- in the living room or in some other galaxy -- have been the hidden engine of the highest achievements in science and technology. Based on Mlodinow's extensive historical research; his studies alongside colleagues such as Richard Feynman and Kip Thorne; and interviews with leading physicists and mathematicians such as Murray Gell-Mann, Edward Witten, and Brian Greene, *Euclid's Window* is an extraordinary blend of rigorous, authoritative investigation and accessible, good-humored storytelling that makes a stunningly original argument asserting the primacy of geometry. For those who have looked through *Euclid's Window*, no space, no thing, and no time will ever be quite the same.

The Trouble with Physics

An extensive, detailed and definitive exploration and elucidation of the extraordinary meeting ground and interconnections between quantum physics and Buddhist philosophy.

Quantum Field Theory

Examines such phenomena as black holes, wormholes, singularities, gravitational waves, and time machines, exploring the fundamental principles that control the

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universe.

The Future of the Mind

This volume collects the research of today's scientists to explore the possibilities of the science of tomorrow. Among the issues covered are how decoding DNA will allow us to alter and reshape our genetic heritage, and how quantum physicists will harness the energy of the Universe.

Black Holes, Wormholes and Time Machines, Second Edition

What is superstring theory and why is it important? Can superstrings offer the fulfilment of Einstein's lifelong dream of a Theory of Everything? This account of the discoveries that have led scientists to the brightest new prospect in theoretical physics today is co-authored by the best-selling author of *Hyperspace* and one of the leading pioneers in superstrings, Michio Kaku. Revised and updated with groundbreaking research, the book approaches scientific questions with the excitement of a detective story, offering a look at the new science that may make the impossible possible.

Six Not-So-Easy Pieces

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A theoretical physicist describes the evolution of modern-day string theory, the flaws in the attempt to formulate a "theory of everything" to explain all the forces and particles of nature and the origins of the universe, and their repercussions for physics.

Time Travel and Warp Drives

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.

The Best American Science Writing 2012

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.

Hyperspace

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To Win a Nuclear War records as fully as we are likely to find what has gone on in the minds of American leaders and nuclear strategists on this awesome subject during these fateful forty years. It is an appalling story This book compels us to re-think and re-write the history of the Cold War and the arms race."--From the foreword by Ramsey Clark, former Attorney General of the United States. To Win a Nuclear War provides a startling glimpse into secret U.S. plans to initiate a nuclear war from 1945 to the present. Based on recently declassified Top Secret documents obtained through the Freedom of Information Act, this book meticulously traces how U.S. policy makers in over a dozen episodes have threatened to initiate a nuclear attack. The book also documents the surprising reasons why the war plans were never carried out and discloses the deeper, hidden meaning of the Star Wars program.

Quantum Buddhism : Dancing in Emptiness - Reality Revealed at the Interface of Quantum Physics and Buddhist Philosophy

Six lectures, all regarding the most revolutionary discovery in twentieth-century physics: Einstein's Theory of Relativity. No one--not even Einstein himself--explained these difficult, anti-intuitive concepts more clearly, or with more verve and gusto, than Feynman.

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Star Wars: Light of the Jedi (The High Republic)

UNRAVEL the mystery of STRING THEORY Trying to understand string theory but ending up with your brain in knots? Here's your lifeline! This straightforward guide explains the fundamental principles behind this cutting-edge concept. String Theory Demystified elucidates the goal of the theory--to combine general relativity and quantum theory into a single, unified framework. You'll learn about classical strings, conformal field theory, quantization, compactification, and T duality. The book covers supersymmetry and superstrings, D-branes, the holographic principle, and cosmology. Hundreds of examples and illustrations make it easy to understand the material, and end-of-chapter quizzes and a final exam help reinforce learning. This fast and easy guide offers: Numerous figures to illustrate key concepts Sample problems with worked solutions Coverage of equations of motion, the energy-momentum tensor, and conserved currents A discussion of the Randall-Sundrum model A time-saving approach to performing better on an exam or at work Simple enough for a beginner, but challenging enough for an advanced student, String Theory Demystified is your key to comprehending this theory of everything.

In Retrospect

In this brilliant exploration of our cosmic environment, the renowned particle

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physicist and New York Times bestselling author of Warped Passages and Knocking on Heaven's Door uses her research into dark matter to illuminate the startling connections between the furthest reaches of space and life here on Earth. Sixty-six million years ago, an object the size of a city descended from space to crash into Earth, creating a devastating cataclysm that killed off the dinosaurs, along with three-quarters of the other species on the planet. What was its origin? In *Dark Matter and the Dinosaurs*, Lisa Randall proposes it was a comet that was dislodged from its orbit as the Solar System passed through a disk of dark matter embedded in the Milky Way. In a sense, it might have been dark matter that killed the dinosaurs. Working through the background and consequences of this proposal, Randall shares with us the latest findings—established and speculative—regarding the nature and role of dark matter and the origin of the Universe, our galaxy, our Solar System, and life, along with the process by which scientists explore new concepts. In *Dark Matter and the Dinosaurs*, Randall tells a breathtaking story that weaves together the cosmos' history and our own, illuminating the deep relationships that are critical to our world and the astonishing beauty inherent in the most familiar things.

String Theory Demystified

A collection of the best science and nature writing published in North America in 2019, guest edited by New York Times best-selling author and ground-breaking

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physicist Dr. Michio Kaku. "Scientists and science writers have a monumental task: making science exciting and relevant to the average person, so that they care," writes renowned American physicist Michio Kaku. "If we fail in this endeavor, then we must face dire consequences." From the startlingly human abilities of AI, to the devastating accounts of California's forest fires, to the impending traffic jam on the moon, the selections in this year's Best American Science and Nature Writing explore the latest mysteries and marvels occurring in our labs and in nature. These gripping narratives masterfully translate the work of today's brightest scientists, offering a clearer view of our world and making us care. THE BEST AMERICAN SCIENCE AND NATURE WRITING 2020 INCLUDES RIVKA GALCHEN - ADAM GOPNIK - FERRIS JABR - JOSHUA SOKOL - MELINDA WENNER MOYER - SIDDHARTHA MUKHERJEE - NATALIE WOLCHOVER and others

Hyperspace

Bringing the material up to date, *Black Holes, Wormholes and Time Machines, Second Edition* captures the new ideas and discoveries made in physics since the publication of the best-selling first edition. While retaining the popular format and style of its predecessor, this edition explores the latest developments in high-energy astroparticle physics and Big Bang cosmology. The book continues to make the ideas and theories of modern physics easily understood by anyone, from researchers to students to general science enthusiasts. Taking you on a journey

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through space and time, author Jim Al-Khalili covers some of the most fascinating topics in physics today, including: Black holes Space warps The Big Bang Time travel Wormholes Parallel universes Professor Al-Khalili explains often complex scientific concepts in simple, nontechnical terms and imparts an appreciation of the cosmos, helping you see how time traveling may not be so far-fetched after all.

Physics of the Impossible

A noted theoretical physicist offers an understandable and timely explanation of the cutting edge of modern physics, offering insights into research on the tenth dimension, time warps, black holes, and multiple universes, providing glimpses into the universe's ultimate nature.

To Win a Nuclear War

NEW YORK TIMES BESTSELLER The #1 bestselling author of *The Future of the Mind* traverses the frontiers of astrophysics, artificial intelligence, and technology to offer a stunning vision of man's future in space, from settling Mars to traveling to distant galaxies. We are entering a new Golden Age of space exploration. With irrepressible enthusiasm and a deep understanding of the cutting-edge research in space travel, World-renowned physicist and futurist Dr. Michio Kaku presents a

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compelling vision of how humanity may develop a sustainable civilization in outer space. He reveals the developments in robotics, nanotechnology, and biotechnology that may allow us to terraform and build habitable cities on Mars and beyond. He then journeys out of our solar system and discusses how new technologies such as nanoships, laser sails, and fusion rockets may actually make interstellar travel a possibility. We travel beyond our galaxy, and even beyond our universe, as Kaku investigates some of the hottest topics in science today, including warp drive, wormholes, hyperspace, parallel universes, and the multiverse. Ultimately, he shows us how humans may someday achieve a form of immortality and be able to leave our bodies entirely, laser porting to new havens in space.

Physics of the Future

'This is about gob-smacking science at the far end of reason Take it nice and easy and savour the experience of your mind being blown without recourse to hallucinogens' Nicholas Lezard, Guardian For most people, quantum theory is a byword for mysterious, impenetrable science. And yet for many years it was equally baffling for scientists themselves. In this magisterial book, Manjit Kumar gives a dramatic and superbly-written history of this fundamental scientific revolution, and the divisive debate at its core. Quantum theory looks at the very building blocks of our world, the particles and processes without which it could not

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exist. Yet for 60 years most physicists believed that quantum theory denied the very existence of reality itself. In this tour de force of science history, Manjit Kumar shows how the golden age of physics ignited the greatest intellectual debate of the twentieth century. Quantum theory is weird. In 1905, Albert Einstein suggested that light was a particle, not a wave, defying a century of experiments. Werner Heisenberg's uncertainty principle and Erwin Schrodinger's famous dead-and-alive cat are similarly strange. As Niels Bohr said, if you weren't shocked by quantum theory, you didn't really understand it. While "Quantum" sets the science in the context of the great upheavals of the modern age, Kumar's centrepiece is the conflict between Einstein and Bohr over the nature of reality and the soul of science. 'Bohr brainwashed a whole generation of physicists into believing that the problem had been solved', lamented the Nobel Prize-winning physicist Murray Gell-Mann. But in "Quantum", Kumar brings Einstein back to the centre of the quantum debate. "Quantum" is the essential read for anyone fascinated by this complex and thrilling story and by the band of brilliant men at its heart.

Parallel Time

We are all agreed that your theory is crazy. The question which divides us is whether it is crazy enough. Niels Bohr Superstring theory has emerged as the most promising candidate for a quantum theory of all known interactions. Superstrings apparently solve a problem that has defied solution for the past 50 years, namely

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the unification of the two great fundamental physical theories of the century, quantum field theory and general relativity. Superstring theory introduces an entirely new physical picture into theoretical physics and a new mathematics that has startled even the mathematicians. Ironically, although superstring theory is supposed to provide a unified field theory of the universe, the theory itself often seems like a confused jumble of folklore, random rules of thumb, and intuition. This is because the development of superstring theory has been unlike that of any other theory, such as general relativity, which began with a geometry and an action and later evolved into a quantum theory. Superstring theory, by contrast, has been evolving backward for the past 20 years. It has a bizarre history, beginning with the purely accidental discovery of the quantum theory in 1968 by G. Veneziano and M. Suzuki. Thumbing through old math books, they stumbled by chance on the Beta function, written down in the last century by mathematician Leonhard Euler.

Design in Nature

Antimatter explores a strange mirror world, where particles have identical yet opposite properties to those that make up the familiar matter we encounter everyday; where left becomes right, positive becomes negative; and where, should matter and antimatter meet, the two annihilate in a blinding flash of energy that makes even thermonuclear explosions look feeble by comparison. It is an idea long

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beloved of science-fiction stories—but here, renowned science writer Frank Close shows that the reality of antimatter is even more fascinating than the fiction itself. We know that once, antimatter and matter existed in perfect counterbalance, and that antimatter then perpetrated a vanishing act on a cosmic scale that remains one of the greatest mysteries of the universe. Today, antimatter does not exist normally, at least on Earth, but we know that it is real for scientists are now able to make small pieces of it in particle accelerators, such as that at CERN in Geneva. Looking at the remarkable prediction of antimatter and how it grew from the meeting point of relativity and quantum theory in the early 20th century, at the discovery of the first antiparticles, at cosmic rays, annihilation, antimatter bombs, and antiworlds, Close separates the facts from the fiction about antimatter, and explains how its existence can give us profound clues about the origins and structure of the universe. Oxford Landmark Science books are 'must-read' classics of modern science writing which have crystallized big ideas, and shaped the way we think.

Parishioner

An authoritative survey of current groundbreaking research into the human mind reveals how top international laboratories have innovated unique technologies for recording profound mental capabilities and enabling controversial opportunities in the field of cognition enhancement.

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Visions

A New York Times Notable Book of the Year, a Washington Post Best Book of the Year Spanning the era between the Chicago World's Fair of 1893 and the years just after World War I, and constantly moving between locations across the globe (and to a few places not strictly speaking on the map at all), *Against the Day* unfolds with a phantasmagoria of characters that includes anarchists, balloonists, gamblers, drug enthusiasts, mathematicians, mad scientists, shamans, spies, and hired guns. As an era of uncertainty comes crashing down around their ears and an unpredictable future commences, these folks are mostly just trying to pursue their lives. Sometimes they manage to catch up; sometimes it's their lives that pursue them.

Beyond Einstein

Are there other dimensions beyond our own? Is time travel possible? Can we change the past? Are there gateways to parallel universes? All of us have pondered such questions, but there was a time when scientists dismissed these notions as outlandish speculations. Not any more. Today, they are the focus of the most intense scientific activity in recent memory. In *Hyperspace*, Michio Kaku, author of the widely acclaimed *Beyond Einstein* and a leading theoretical physicist, offers the

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first book-length tour of the most exciting (and perhaps most bizarre) work in modern physics, work which includes research on the tenth dimension, time warps, black holes, and multiple universes. The theory of hyperspace (or higher dimensional space)--and its newest wrinkle, superstring theory--stand at the center of this revolution, with adherents in every major research laboratory in the world, including several Nobel laureates. Beginning where Hawking's *Brief History of Time* left off, Kaku paints a vivid portrayal of the breakthroughs now rocking the physics establishment. Why all the excitement? As the author points out, for over half a century, scientists have puzzled over why the basic forces of the cosmos--gravity, electromagnetism, and the strong and weak nuclear forces--require markedly different mathematical descriptions. But if we see these forces as vibrations in a higher dimensional space, their field equations suddenly fit together like pieces in a jigsaw puzzle, perfectly snug, in an elegant, astonishingly simple form. This may thus be our leading candidate for the Theory of Everything. If so, it would be the crowning achievement of 2,000 years of scientific investigation into matter and its forces. Already, the theory has inspired several thousand research papers, and has been the focus of over 200 international conferences. Michio Kaku is one of the leading pioneers in superstring theory and has been at the forefront of this revolution in modern physics. With *Hyperspace*, he has produced a book for general readers which conveys the vitality of the field and the excitement as scientists grapple with the meaning of space and time. It is an exhilarating look at physics today and an eye-opening glimpse into the ultimate nature of the universe.

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Black Holes and Time Warps

"A fresh and highly visual tour through Einstein's astonishing legacy." —Brian Greene There's no better short book that explains just what Einstein did than Einstein's Cosmos. Keying Einstein's crucial discoveries to the simple mental images that inspired them, Michio Kaku finds a revealing new way to discuss his ideas, and delivers an appealing and always accessible introduction to Einstein's work.

Euclid's Window

Provides a comprehensive discussion of the gauge revolution and the theoretical and experimental evidence which makes the Standard Model the leading theory of subatomic phenomena.

Music by the Numbers

Discusses what people understand about space and time and how science fiction is becoming less fictional as time goes on.

Big Bang

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Weather, Macroweather, and the Climate is an insider's attempt to explain as simply as possible how to understand the atmospheric variability that occurs over an astonishing range of scales: from millimeters to the size of the planet, from milliseconds to billions of years. The variability is so large that standard ways of dealing with it are utterly inadequate: in 2015, it was found that classical approaches had underestimated the variability by the astronomical factor of a quadrillion (a million billion). Author Shaun Lovejoy asks - and answers - many fundamental questions such as: Is the atmosphere random or deterministic? What is turbulence? How big is a cloud (what is the appropriate notion of size itself)? What is its dimension? How can we conceptualize the structures within structures within structures spanning millimeters to thousands of kilometers and milliseconds to the age of the planet? What is weather? What is climate? Lovejoy shows in simple terms why the industrial epoch warming can't be natural - much simpler than trying to show that it's anthropogenic. We will discuss in simple terms how to make the best seasonal and annual forecasts - without giant numerical models. Above all, the book offers readers a new understanding of the atmosphere.

Quantum Energetics

Parallel Time is an evocative memoir that poses universal questions: Where does the family end and the self begin? What do we owe our families, and what do we

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owe our dreams for ourselves? What part of the past is a gift and what part a shackle? For Brent Staples there is the added dimension of race: moving from a black world into one largely defined by whites. The oldest son among nine children, Brent grew up in a small industrial town near Philadelphia. First a scholarship to a local college and then one for graduate study at the University of Chicago pulled him out of the close family circle. While he was away, the industries that supported the town failed, and drug dealing rushed in to fill the economic void. News of arrests and premature deaths among Brent's childhood friends underscored the precariousness of his perch in a world of mostly white achievers. A younger brother became a cocaine dealer and was murdered by one of his "clients." His death propelled Brent into a reconsideration of his childhood and coming-of-age that offers vivid portraits of family and place, of values that supported and pressures that tore apart, of the appeal and pain of entering a predominantly white world, and of the strengths and vulnerabilities of the black world he grew away from.

Introduction to Superstrings

This modern text combines fundamental principles with advanced topics and recent techniques in a rigorous and self-contained treatment of quantum field theory. Beginning with a review of basic principles, starting with quantum mechanics and special relativity, students can refresh their knowledge of

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elementary aspects of quantum field theory and perturbative calculations in the Standard Model. Results and tools relevant to many applications are covered, including canonical quantization, path integrals, non-Abelian gauge theories, and the renormalization group. Advanced topics are explored, with detail given on effective field theories, quantum anomalies, stable extended field configurations, lattice field theory, and field theory at a finite temperature or in the strong field regime. Two chapters are dedicated to new methods for calculating scattering amplitudes (spinor-helicity, on-shell recursion, and generalized unitarity), equipping students with practical skills for research. Accessibly written, with numerous worked examples and end-of-chapter problems, this is an essential text for graduate students. The breadth of coverage makes it an equally excellent reference for researchers.

Finding our Place in the Universe

Teleportation, time machines, force fields, and interstellar space ships—the stuff of science fiction or potentially attainable future technologies? Inspired by the fantastic worlds of Star Trek, Star Wars, and Back to the Future, renowned theoretical physicist and bestselling author Michio Kaku takes an informed, serious, and often surprising look at what our current understanding of the universe's physical laws may permit in the near and distant future. Entertaining, informative, and imaginative, *Physics of the Impossible* probes the very limits of human

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ingenuity and scientific possibility.

The Future of Humanity

#1 NATIONAL BESTSELLER. The definitive insider's account of American policy making in Vietnam. "Can anyone remember a public official with the courage to confess error and explain where he and his country went wrong? This is what Robert McNamara does in this brave, honest, honorable, and altogether compelling book."—Arthur Schlesinger, Jr. Written twenty years after the end of the Vietnam War, former Secretary of Defense Robert McNamara's controversial memoir answers the lingering questions that surround this disastrous episode in American history. With unprecedented candor and drawing on a wealth of newly declassified documents, McNamara reveals the fatal misassumptions behind our involvement in Vietnam. Keenly observed and dramatically written, *In Retrospect* possesses the urgency and poignancy that mark the very best histories—and the unsparing candor that is the trademark of the greatest personal memoirs. Includes a preface written by McNamara for the paperback edition.

Quantum Field Theory

A half century ago, a shocking Washington Post headline claimed that the world

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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.

The Hidden Reality

An eBook original crime novel from bestselling author Walter Mosley, Parishioner is a portrait of a hardened criminal who regrets his past, but whose only hope for redemption is to sin again. In a small town situated between Los Angeles and Santa Barbara, a simple church of white stone sits atop a hill on the coast. This nameless house of worship is a sanctuary for the worst kinds of sinners: the congregation and even the clergy have broken all ten Commandments and more. Now they have gathered to seek forgiveness. Xavier Rule—Ecks to his friends—didn't come to California in search of salvation but, thanks to the grace of this church, he has begun to learn to forgive himself and others for past misdeeds. One day a woman arrives to seek absolution for the guilt she has carried for years over her role in a scheme to kidnap three children and sell them on the black market. As part of atoning for his past life on the wrong side of the law, Ecks is assigned to find out what happened to the abducted children. As he follows the thin trail of the twenty-three-year-old crime, he must struggle against his old,

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lethal instincts—and learn when to give in to them.

Weather, Macroweather, and the Climate

How a team of researchers, led by the author, discovered our home galaxy's location in the universe. You are here: on Earth, which is part of the solar system, which is in the Milky Way galaxy, which itself is within the extragalactic supercluster Laniakea. And how can we pinpoint our location so precisely? For twenty years, astrophysicist H el ene Courtois surfed the cosmos with international teams of researchers, working to map our local universe. In this book, Courtois describes this quest and the discovery of our home supercluster. Courtois explains that Laniakea (which means “immense heaven” in Hawaiian) is the largest galaxy structure known to which we belong; it is huge, almost too large to comprehend—about five hundred million light-years in diameter. It contains about 100,000 large galaxies like our own, and a million smaller ones. Writing accessibly for nonspecialists, Courtois describes the visualization and analysis that allowed her team to map such large structures of the universe. She highlights the work of individual researchers, including portraits of several exceptional women astrophysicists—presenting another side of astronomy. Key ideas are highlighted in text insets; illustrations accompany the main text. The French edition of this book was named the Best Astronomy Book of 2017 by the astronomy magazine *Ciel et espace*. For this MIT Press English-language edition, Courtois has added

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descriptions of discoveries made after Laniakea: the cosmic velocity web and the Dipole and Cold Spot repellers. An engaging account of one of the most important discoveries in astrophysics in recent years, her story is a tribute to teamwork and international collaboration.

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