

Download Ebook The Elegant Universe Superstrings Hidden Dimensions And Quest For Ultimate Theory Brian Greene Pdf Free Copy

String Theory and M-Theory Jun 07 2021

String theory is one of the most exciting and challenging areas of modern theoretical physics. This book guides the reader from the basics of string theory to recent developments. It introduces the basics of perturbative string theory, world-sheet supersymmetry, space-time supersymmetry, conformal field theory and the heterotic string, before describing modern developments, including D-branes, string dualities and M-theory. It then covers string geometry and flux compactifications, applications to cosmology and particle physics, black holes in string theory and M-theory, and the microscopic origin of black-hole entropy. It concludes with Matrix theory, the AdS/CFT duality and its generalizations. This book is ideal for graduate students and researchers in modern string theory, and will make an excellent textbook for a one-year course on string theory. It contains over 120 exercises with solutions, and over 200 homework problems with solutions available on a password protected website for lecturers at www.cambridge.org/9780521860697.

Supersymmetry and String Theory Jul 08 2021

The past decade has witnessed dramatic developments in the field of theoretical physics. This book is a comprehensive introduction to these recent developments. It contains a review of the Standard Model, covering non-perturbative topics, and a discussion of grand unified theories and magnetic monopoles. It introduces the basics of supersymmetry and its phenomenology, and includes dynamics, dynamical supersymmetry breaking, and electric-magnetic duality. The book then covers general relativity and the big bang theory, and the basic issues in inflationary cosmologies before discussing the spectra of known string theories and the features of their interactions. The book also includes brief introductions to technicolor, large extra dimensions, and the Randall-Sundrum theory of warped spaces. This will be of great interest to graduates and researchers in the fields of particle theory, string theory, astrophysics and cosmology. The book contains several problems, and password protected solutions will be available to lecturers at

www.cambridge.org/9780521858410.

Endless Universe May 26 2020 Two theoretical physicists offer a bold new study of cosmic history that posits that the so-called Big Bang was simply part of an infinite cycle of colossal collisions between our known universe and a parallel world, drawing on ground-breaking developments in astronomy, particle physics, and superstring theory to illuminate their Cyclic Universe theory. Reprint. 25,000 first printing.

The Road to Damascus Dec 01 2020 If you have any interest in the meaning of life, the human spirit, or life after death, this is a book you must read... Advance praise for The Road to Damascus: "...A manuscript of astonishing

power and merit...the most balanced, wise and consoling account of a personal encounter with the source of reality that I have ever read or ever expect to read this side of the New Testament." John Cantwell Kiley, M.D., Ph.D., author of *Self Rescue, Equilibrium and Einstein*, and *Aquinas: A Rapprochement*. "The newcomer to these concepts could do no better than to read this book; it is sparely crafted with no extraneous material to detract from its thesis." The Monterey Peninsula Herald, Monterey, California

The Elegant Universe: Superstrings, Hidden Dimensions, and the Quest for the Ultimate Theory Feb 27 2023 Introduces the superstring theory that attempts to unite general relativity and quantum mechanics.

The Great Beyond Feb 21 2020 The concept of multiple unperceived dimensions in the universe is one of the hottest topics in contemporary physics. It is essential to current attempts to explain gravity and the underlying structure of the universe. The Great Beyond begins with Einstein's famous quarrel with Heisenberg and Bohr, whose theories of uncertainty threatened the order Einstein believed was essential to the universe, and it was his rejection of uncertainty that drove him to ponder the existence of a fifth dimension. Beginning with this famous disagreement and culminating with an explanation of the newest "brane" approach, author Paul Halpern shows how current debates about the nature of reality began as age-old controversies, and addresses how the possibility of higher dimensions has influenced culture over the past one hundred years.

The Four Trails of String Theory Oct 23 2022

String Theory For Dummies Feb 03 2021 A clear, plain-English guide to this complex scientific theory String theory is the hottest topic in physics right now, with books on the subject (pro and con) flying out of the stores. String Theory For Dummies offers an accessible introduction to this highly mathematical "theory of everything," which posits ten or more dimensions in an attempt to explain the basic nature of matter and energy. Written for both students and people interested in science, this guide explains concepts, discusses the string theory's hypotheses and predictions, and presents the math in an approachable manner. It features in-depth examples and an easy-to-understand style so that readers can understand this controversial, cutting-edge theory.

Icarus at the Edge of Time Jul 20 2022 A futuristic reimaging 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.

Magnificent Universe Apr 17 2022 Breathtaking full-color photography

complement an intriguing exploration of outer space, in a visual look at modern astronomy that features pictures from the Mars Pathfinder and Voyager probes, telescope images from around the world, and images from the Hubble telescope.

The Elegant Universe Jan 26 2023 In a rare blend of scientific insight and writing as elegant as the theories it explains, Brian Greene, one of the world's leading string theorists, peels away the layers of mystery surrounding string theory to reveal a universe that consists of 11 dimensions, where the fabric of space tears and repairs itself, and all matter - from the smallest quarks to the most gargantuan supernovas - is generated by the vibrations of microscopically tiny loops of energy. Green uses everything from an amusement park ride to ants on a hose to explain the beautiful yet bizarre realities that modern physics to both illuminate and entertain, this book is a tour de force of scientific writing - a delightful, lucid voyage through modern physics that brings us closer to understanding how the universe works.

Dark Matter and Dark Energy Sep 10 2021

All the matter and light we can see in the universe makes up a trivial 5 per cent of everything. The rest is hidden. This could be the biggest puzzle that science has ever faced. Since the 1970s, astronomers have been aware that galaxies have far too little matter in them to account for the way they spin around: they should fly apart, but something concealed holds them together. That 'something' is dark matter - invisible material in five times the quantity of the familiar stuff of stars and planets. By the 1990s we also knew that the expansion of the universe was accelerating. Something, named dark energy, is pushing it to expand faster and faster. Across the universe, this requires enough energy that the equivalent mass would be nearly fourteen times greater than all the visible material in existence. Brian Clegg explains this major conundrum in modern science and looks at how scientists are beginning to find solutions to it.

Three Roads to Quantum Gravity Oct 11 2021 A leading theoretical physicist describes the search for a 'theory of everything'. The Holy Grail of modern physics is the search for a 'quantum gravity' view of the universe that unites Einstein's general relativity with quantum theory. Until recently, these two foundational pillars of modern science have seemed incompatible: relativity deals exclusively with the universe at the large scale (planets, solar systems and galaxies), whereas quantum theory is restricted to the domain of the very small (molecules, atoms, electrons). Here, Lee Smolin provides the first accessible overview of current attempts to reconcile these two theories. Written with wit and style, Three Roads to Quantum Gravity touches on some of the deepest questions about the nature of the universe - are space and time continuous or

infinitely divisible? Is there a limit to how small things can be? - while speculating on what developments we can expect at the frontiers of physics in the twenty-first century.

Why String Theory? Nov 12 2021 Physics World's 'Book of the Year' for 2016 An Entertaining and Enlightening Guide to the Who, What, and Why of String Theory, now also available in an updated reflowable electronic format compatible with mobile devices and e-readers. During the last 50 years, numerous physicists have tried to unravel the secrets of string theory. Yet why do these scientists work on a theory lacking experimental confirmation? Why String Theory? provides the answer, offering a highly readable and accessible panorama of the who, what, and why of this large aspect of modern theoretical physics. The author, a theoretical physics professor at the University of Oxford and a leading string theorist, explains what string theory is and where it originated. He describes how string theory fits into physics and why so many physicists and mathematicians find it appealing when working on topics from M-theory to monsters and from cosmology to superconductors.

Farewell to Reality Jun 26 2020 Modern physics is heady stuff. It seems that barely a week goes by without some new astounding science story; some revelation about hidden dimensions, multiple universes, the holographic principle or incredible cosmic coincidences. But is it true? What evidence do we have for supersymmetric squarks', or superstrings vibrating in an 11-dimensional space-time? How do we know that we live in a multiverse? How can we tell that the universe is a hologram projected from information encoded on its boundary? Doesn't this sound like a fairy story? In Farewell to Reality Jim Baggott asks whether all that we currently know about the universe is based upon science or fantasy. In addition he wonders whether these high priests of fairy tale physics - such as John Barrow, Paul Davies, David Deutsch, Brian Greene, Stephen Hawking, Michio Kaku, Gordon Kane and Leonard Susskind - are the emperor's latest tailors. Praise for Jim Baggott: A shimmering tour d'horizon. Quantum theory may deny us the possibility of properly comprehending physical reality, but Baggott's account is smart and consoling. Kirkus Reviews. Jim Baggott's inspired - and inspiring - idea of presenting the history of quantum physics in terms of 40 key moments works both as an introduction for the uninitiated and as a refresher for anyone who thinks they know the story. John Gribbin. I never read such a good, comprehensive account as Jim Baggott's...highly recommended. A.N. Wilson. The best popular science book of the year to date by far. popularscience.co.uk

The Metatheory of Physics Theories and the Theory of Everything as a Quantum Computer Language Jan 22 2020 This book describes a new area of physics: the metatheory of physics theories. It develops a mathematical description of the nature of physics theories which it applies to the Theory of Everything or the Final Theory. It also develops quantum Turing machine and Quantum Computer formulations of the Standard Model of Elementary Particles and SuperString Theories.

Introduction to Superstrings Aug 09 2021 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 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.

Until the End of Time Jun 19 2022 From the world-renowned physicist and bestselling author of The Elegant Universe and The Fabric of the Cosmos, a captivating exploration of deep time and humanity's search for purpose In both time and space, the cosmos is astoundingly vast, and yet is governed by simple, elegant, universal mathematical laws. On this cosmic timeline, our human era is spectacular but fleeting. Someday, we know, we will all die. And, we know, so too will the universe itself. Until the End of Time is Brian Greene's breathtaking new exploration of the cosmos and our quest to understand it. Greene takes us on a journey across time, from our most refined understanding of the universe's beginning, to the closest science can take us to the very end. He explores how life and mind emerged from the initial chaos, and how our minds, in coming to understand their own impermanence, seek in different ways to give meaning to experience: in story, myth, religion, creative expression, science, the quest for truth, and our longing for the timeless, or eternal. Through a series of nested stories that explain distinct but interwoven layers of reality--from the quantum mechanics to consciousness to black holes--Greene provides us with a clearer sense of how we came to be, a finer picture of where we are now, and a firmer understanding of where we are headed. Yet all this understanding, which arose with the emergence of life, will dissolve with its conclusion. Which leaves us with one realization: during our brief moment in the sun, we are tasked with the charge of finding our own meaning. Let us embark.

The Shape of Inner Space Aug 21 2022 Argues that geometry is fundamental to string theory--which posits that we live in a 10-dimensional existence--as well as the very nature of the universe, and explains where mathematics will take string theory next. *The Big Picture* Dec 21 2019 'Fascinating' -

Brian Cox, Mail on Sunday Books of the Year Where are we? Who are we? Do our beliefs, hopes and dreams hold any significance out there in the void? Can human purpose and meaning ever fit into a scientific worldview? Award-winning author Sean Carroll brings his extraordinary intellect to bear on the realms of knowledge, the laws of nature and the most profound questions about life, death and our place in it all. From Darwin and Einstein to the origins of life, consciousness and the universe itself, Carroll combines cosmos-sprawling science and profound thought in a quest to explain our world. Destined to sit alongside the works of our greatest thinkers, The Big Picture demonstrates that while our lives may be forever dwarfed by the immensity of the universe, they can be redeemed by our capacity to comprehend it and give it meaning. *The Trouble with Physics* Aug 29 2020 Sample Text

Quantum Physics Jan 14 2022 2nd Edition ****BONUS**** right after the conclusion Ever wonder about how light moves? What does it mean to study the smallest particles known to man? How does science measure the smallest particles in the world, such as atoms, protons, neutrons and electrons? What is ether and how did it become a source of debate in the scientific community? Studying the smallest particles known to man can be exciting work. This study of the world on the molecular level, particularly matter and energy, is the realm of Quantum Physics. Scientists use mathematical equations to help them explain the behavior of matter and energy within the Universe. If you have a curiosity about the world of Quantum Physics, but thought the science textbooks would be too much to absorb, this book is for you. With an overview of what Quantum Physics is, historical background into the scientists who created many of the theories that make up Quantum Physics, and a look at a few of those theories. Quantum Physics is more than the study of matter and energy, but dives into the behavior of matter and energy on a molecular level. Scientists use the information they gather through experiments, observation and continually more precise measuring tools to explain how the building blocks of our world work together. This book dives into a discussion of wave particle duality and how this theory has continued to mystify scientists even today. Or learn how a particle can appear to go through the wall, versus around it. Using light as an example, this book explains how wave particle duality was discovered, who was able to explain the multiple conflicting observations and finally, what scientists have used this information to create. Learn about Einstein and his disagreements with the scientists of his time over various theories in Quantum Physics. Get a better understanding of how theories within Quantum Physics relate to one another. Receive a basic understanding of the Unified Force Theory and how science is still working to prove this unique all-encompassing theory. Written in common man versus science speak, this book gives everyone a chance to get their toes wet as they learn the basics of a complex area of scientific study. *****Limited Edition***** Download your copy today!
Death by Black Hole: And Other Cosmic Quandaries Jul 28 2020 "[Tyson] tackles a great range of subjects...with great humor,

humility, and—most important—humanity." —Entertainment Weekly Loyal readers of the monthly "Universe" essays in Natural History magazine have long recognized Neil deGrasse Tyson's talent for guiding them through the mysteries of the cosmos with clarity and enthusiasm. Bringing together more than forty of Tyson's favorite essays, *Death by Black Hole* explores a myriad of cosmic topics, from what it would be like to be inside a black hole to the movie industry's feeble efforts to get its night skies right. One of America's best-known astrophysicists, Tyson is a natural teacher who simplifies the complexities of astrophysics while sharing his infectious fascination for our universe.

Elegant Universe Dec 25 2022 Introduces the superstring theory that attempts to unite general relativity and quantum mechanics
The God Equation Mar 24 2020 'A majestic story' David Bodanis, Financial Times From the international bestselling author of *Physics of the Impossible* and *Physics of the Future* This is the story of a quest: to find a Theory of Everything. Einstein dedicated his life to seeking this elusive Holy Grail, a single, revolutionary 'god equation' which would tie all the forces in the universe together, yet never found it. Some of the greatest minds in physics took up the search, from Stephen Hawking to Brian Greene. None have yet succeeded. In *The God Equation*, renowned theoretical physicist Michio Kaku takes the reader on a mind-bending ride through the twists and turns of this epic journey: a mystery that has fascinated him for most of his life. He guides us through the key debates in modern physics, from Newton's law of gravity via relativity and quantum mechanics to the latest developments in string theory. It is a tale of dazzling breakthroughs and crushing dead ends, illuminated by Kaku's clarity, storytelling flair and infectious enthusiasm. The object of the quest is now within sight: we are closer than ever to achieving the most ambitious undertaking in the history of science. If successful, the Theory of Everything could simultaneously unlock the deepest mysteries of space and time, and fulfil that most ancient and basic of human desires - to understand the meaning of our lives.

The Little Book of String Theory Nov 24 2022 The essential beginner's guide to string theory The Little Book of String Theory offers a short, accessible, and entertaining introduction to one of the most talked-about areas of physics today. String theory has been called the "theory of everything." It seeks to describe all the fundamental forces of nature. It encompasses gravity and quantum mechanics in one unifying theory. But it is unproven and fraught with controversy. After reading this book, you'll be able to draw your own conclusions about string theory. Steve Gubser begins by explaining Einstein's famous equation $E = mc^2$, quantum mechanics, and black holes. He then gives readers a crash course in string theory and the core ideas behind it. In plain English and with a minimum of mathematics, Gubser covers strings, branes, string dualities, extra dimensions, curved spacetime, quantum fluctuations, symmetry, and supersymmetry. He describes efforts to link string theory to experimental physics and uses analogies that nonscientists can understand. How does

Chopin's *Fantasia-Impromptu* relate to quantum mechanics? What would it be like to fall into a black hole? Why is dancing a waltz similar to contemplating a string duality? Find out in the pages of this book. The Little Book of String Theory is the essential, most up-to-date beginner's guide to this elegant, multidimensional field of physics.

Big Bang Mar 04 2021 We've all heard of the Big Bang, and yet few of us truly know what it is. Renowned for making difficult ideas much less difficult than they might first appear, Simon Singh is our perfect guide to explaining why cosmologists believe that the Big Bang is an accurate description of the origin and evolution of the universe. This highly readable and entertaining book tells the story of the many brilliant, often eccentric scientists who fought against the establishment idea of an eternal and unchanging cosmos. From such early Greek cosmologists as Anaximander to recent satellite measurements taken deep in space, Big Bang is a narrative full of anecdotes and personal histories. With characteristic clarity, Simon Singh tells the centuries-long story of mankind's attempt to understand how the universe came to be, a story which itself begins some 14 billion years ago (give or take a billion years). Simon Singh shows us that it is within the capability of all of us -- in his expert hands -- to understand the Big Bang: the fundamental theory in all of science, and a high point -- perhaps the high point -- of human achievement.

String Theory Sep 29 2020 String Theory, first published in 1998, comprises two volumes which provide a comprehensive and pedagogic account of the subject. Volume 2 begins with an introduction to supersymmetric string theories and presents the important advances of recent years. The first three chapters introduce the type I, type II, and heterotic superstring theories and their interactions. The next two chapters present important recent discoveries about strongly coupled strings, beginning with a detailed treatment of D-branes and their dynamics, and covering string duality, M-theory, and black hole entropy. The final chapters are concerned with four-dimensional string theories, showing how some of the simplest string models connect with previous ideas for unifying the Standard Model. They collect many important results on world-sheet and spacetime symmetries. An appendix summarizes the necessary background on fermions and supersymmetry. An essential text and reference for graduate students and researchers interested in superstring theory.

The Hidden Reality May 18 2022 "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.

Black Holes, Cosmology And Extra Dimensions (Second Edition) Nov 19 2019 Assuming basic knowledge of special and general relativity, this book guides the reader to problems under consideration in modern research, concerning black holes, wormholes, cosmology, and extra dimensions. Its first part is devoted to local strong field configurations (black holes and wormholes) in general relativity and its most relevant extensions: scalar-tensor, $f(R)$, and

multidimensional theories. The second part discusses cosmology, including inflation and problems of a unified description of the whole evolution of the universe. The third part concerns multidimensional theories of gravity and contains a number of original results obtained by the authors. Expository work is conducted for a mechanism of symmetries and fundamental constants formation. The original approach to nonlinear multidimensional gravity that is able to construct a unique perspective describing different phenomena is highlighted. Much of the content was previously presented only in journal publications and is new for book contents, e.g., on regular black holes, various scalar field solutions, wormholes and their stability, inflation, clusters of primordial black holes, and multidimensional gravity. The last two topics are added in this new edition of the book. The other chapters are also updated to include new discoveries like the detection of gravitational waves.

Einstein's Mirror Dec 13 2021 Lavishly illustrated, fascinating and accessible introduction to Einstein's relativity for general readers, school students and undergraduates.
A First Course in String Theory Jan 02 2021 String theory made understandable. Barton Zwiebach is once again faithful to his goal of making string theory accessible to undergraduates. He presents the main concepts of string theory in a concrete and physical way to develop intuition before formalism, often through simplified and illustrative examples. Complete and thorough in its coverage, this new edition now includes AdS/CFT correspondence and introduces superstrings. It is perfectly suited to introductory courses in string theory for students with a background in mathematics and physics. New sections cover strings on orbifolds, cosmic strings, moduli stabilization, and the string theory landscape. Now with almost 300 problems and exercises, with password-protected solutions for instructors at www.cambridge.org/zwiebach.

The Fabric of the Cosmos Apr 05 2021 'A magnificent challenge to conventional ideas' Financial Times 'I thoroughly enjoyed this book. It manages to be both challenging and entertaining: it is highly recommended' the Independent '(Greene) send(s) the reader's imagination hurtling through the universe on an astonishing ride. As a popularizer of exquisitely abstract science, he is both a skilled and kindly explicator' the New York Times 'Greene is as elegant as ever, cutting through the fog of complexity with insight and clarity; space and time become putty in his hands' Los Angeles Times Book Review

Quantum Apr 24 2020 '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 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.

The Arrow Of Time Oct 31 2020 In our century, the subject of time has become an area of serious inquiry for science. Theories that contain time as a simple quantity form the basis of our understanding of many scientific disciplines, yet the debate rages on: why does there seem to be a direction to time, an arrow of time pointing from past to future? In this authoritative and accessible Sunday Times bestseller, physical chemist Dr Peter Coveney and award-winning science journalist Dr Roger Highfield demonstrate that the common sense view of time agrees with the most advanced scientific theory. Time does in fact move like an arrow, shooting forward into what is genuinely unknown, leaving the past immutably behind. The authors make their case by exploring three centuries of science, offering bold reinterpretations of Newton's mechanics, Einstein's special and general theories of relativity, quantum mechanics, and advancing the insights of chaos theory. In their voyage through science the authors link apparently irreconcilable subjects, from Einstein's obsession with causality to chaos theory, from Marvell's winged chariot to that Monday morning feeling. Finally, drawing together the various interpretations of time, they describe a novel way to give it a sense of direction. And they call for a new fundamental theory to take account of the Arrow of Time. Foreword by Ilya Prigogine, Nobel laureate.

Warped Passages Sep 22 2022 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.

Einstein's Dreams Oct 19 2019 A modern classic, Einstein's Dreams is a fictional collage of stories dreamed by Albert Einstein in 1905, when he worked in a patent office in Switzerland. As the defiant but sensitive young genius is creating his theory of relativity, a new conception of time, he imagines many possible worlds. In one, time is circular, so that people are fated to repeat triumphs and failures over and over. In another, there is a place where time stands still, visited by lovers and parents clinging to their children. In another, time is a nightingale, sometimes trapped by a bell jar. Now translated into thirty languages, Einstein's Dreams has inspired playwrights, dancers, musicians, and painters all over the world. In poetic vignettes, it explores the connections between science and art, the process of creativity, and ultimately the fragility of human existence.

Hyperspace May 06 2021 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.

Superstring Theory Mar 16 2022 The twenty-fifth anniversary edition featuring a new Preface, invaluable for graduate students and researchers in high energy physics and astrophysics.

Warped Passages Feb 15 2022 In Warped Passages one of the world's most exciting scientists gives us a glimpse into our future. Incredibly readable - and illustrated throughout - it allows the general reader to understand the questions that scientists are dealing with at the frontiers of research today. Lisa Randall allows the reader to understand the kind of problems that extra dimensions might solve and the kind of speculation that is needed even to imagine them. She also gives an introduction to developments in early twentieth century physics, particle physics and string theory and addresses current debates about relativity, quantum mechanics and gravity - and she describes the questions that are still to be solved.

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