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Physics, the Human Adventure Gerald James Holton 2001 Of Some Trigonometric Relations -- Vector Algebra.
Einstein's Greatest Mistake David Bodanis 2016-10-18 “What Bodanis does brilliantly is to give us a feel for Einstein as a person. I don’t think I’ve ever read a book that does this as well” (Popular Science). In this “fascinating” biography, the acclaimed author of E=mc2 reveals that in spite of his indisputable brilliance, Albert Einstein found himself ignored by most working scientists during the final decades of his life, his ideas opposed by even his closest friends (Forbes). How did this happen? Einstein revolutionized our understanding of the cosmos with his general theory of relativity, and helped lead us into the atomic age. This book goes beyond his remarkable intellect and accomplishments to examine the man himself, from the skeptical, erratic student to the world’s greatest physicist to the fallen-from-grace celebrity. An intimate biography that “imparts fresh insight into the genius—and failures—of the 20th century’s most celebrated scientist,” Einstein’s Greatest Mistake reveals what we owe Einstein today—and how much more he might have achieved if not for his all-too-human flaws (Publishers Weekly). Named a Science Book of the Year by the Sunday Times and one of the Top Five Science Books of 2016 by ABC News Australia, this unique book “offers a window onto Einstein’s achievements and missteps, as well as his life—his friendships, his complicated love life (two marriages, many affairs) and his isolation from other scientists at the end of his life” (BookPage).
The Grand Design Stephen Hawking 2011 In the last thirty years of his life Albert Einstein searched for a unified theory - a theory which could describe all the forces of nature in a single framework. But the time was not right for such a discovery in Einstein's day.Neither was the time right when, in 1988, Professor Stephen Hawking wrote A Brief History of Time in which he took us on a journey through classical physics, Einstein's theory of relativity, quantum physics and string theory in order to explain the universe that we live in. He concluded, like Einstein, that science may soon arrive at the long sought after 'Theory of Everything'.In this groundbreaking new work, Professor Hawking and renowned science writer Leonard Mlodinow have drawn on forty years of Hawking's own research and a recent series of extraordinary astronomical observations and theoretical breakthroughs to reveal an original and controversial theory. They convincingly argue that scientific obsession with formulating a single new model may be misplaced, and that by synthesising existing theories we may discover the key to finally understanding the universe's deepest mysteries.Written with the clarity and lively style for which Hawking is famous, The Grand Design is an account of Hawking's quest to fuse these different strands of scientific theory. It examines the differences between past and future, explains the nature of reality and asks an all-important question: How far can we go in our search for understanding and knowledge?
The Astronomy Book DK 2017-09-07 Since the dawn of humankind, people have looked upward to the heavens and tried to understand what's out there. This encyclopedia takes you on a journey through time and space to discover our place in the Universe. From the planets and stars to black holes and the Big Bang, we invite you to take a journey through the wonders of the Universe. Get ready to discover the story of the Universe one page at a time! This educational book for young adults will launch you on a wild trip through the cosmos and the incredible discoveries throughout history. Filled to the brim with beautifully illustrated flowcharts, graphics, and jargon-free language, The Astronomy Book breaks down hard-to-grasp concepts to guide you in understanding almost 100 big astronomical ideas. The Way to The Stars is Open! How do we measure the Universe? Where is the event horizon? What is dark matter? Now you can find out all the answers to these questions and so much more in this inquisitive book about our Universe! Using incredibly clever visual learning devices like step-by-step diagrams, you'll learn more about captivating topics from the Copernican Revolution. Dive into the mind-boggling theories of recent science in a user-friendly format that makes the information easy to follow. Explore the biographies, theories, and discoveries of key astronomers through the ages such as Ptolemy, Galileo, Newton, Hubble, and Hawking. To infinity and beyond! Journey through space and time with us: - From Myth to Science 600 BCE - 1550 CE - The Telescope Revolution 1550 - 1750 - Uranus to Neptune 1750 - 1850 - The Rise of Astrophysics 1850 - 1915 - Atom, Stars, And Galaxies 1915 - 1950 - New Windows on The Universe 1950 - 1917 - The Triumph of Technology 1975 - Present The Series Simply Explained With over 7 million copies sold worldwide to date, The Astronomy Book is part of the award- winning Big Ideas series from DK Books. It uses innovative graphics along with engaging writing to make complex subjects easier to understand. Awards A Young Adult Library Services Association Outstanding Books for the College Bound and Lifelong Learners list selection A Mom's Choice Awards® Honouring Excellence Gold Seal of Approval for Young Adult Books A Parents' Choice Gold Award winner
E David Bodanis 2001 Generations have grown up knowing that the equation E=mc2 changed the shape of our world but never understanding what it actually means and why it was so significant. Here, Bodanis writes the biography of this great discovery and turns a seemingly impenetrable theory into a dramatic and accessible human achievement. Bodanis begins by introducing the science and scientists forming the backdrop to Einstein's discovery...
Brief Answers to the Big Questions Stephen Hawking 2018-10-16 THE NO.1 SUNDAY TIMES BESTSELLER 'A beautiful little book by a brilliant mind' DAILY TELEGRAPH 'Effortlessly instructive, absorbing, up to the minute and - where it matters - witty' GUARDIAN The world-famous cosmologist and #1 bestselling author of A Brief History of Time leaves us with his final thoughts on the universe's biggest questions in this brilliant posthumous work. Is there a God? How did it all begin? Can we predict the future? What is inside a black hole? Is there other intelligent life in the universe? Will artificial intelligence outsmart us? How do we shape the future? Will we survive on Earth? Should we colonise space? Is time travel possible? Throughout his extraordinary career, Stephen Hawking expanded our understanding of the universe and unravelled some of its greatest mysteries. But even as his theoretical work on black holes, imaginary time and multiple histories took his mind to the furthest reaches of space, Hawking always believed that science could also be used to fix the problems on our planet. And now, as we face potentially catastrophic changes here on Earth - from climate change to dwindling natural resources to the threat of artificial super-intelligence - Stephen Hawking turns his attention to the most urgent issues for humankind. Wide-ranging, intellectually stimulating, passionately argued, and infused with his characteristic humour, Brief Answers to the Big Questions, the final book from one of the greatest minds in history, is a personal view on the challenges we face as a human race, and where we, as a planet, are heading next. A percentage of all royalties will go to charity.
The Big Book of Conflict Resolution Games: Quick, Effective Activities to Improve Communication, Trust and Collaboration Mary Scannell 2010-05-28 Make workplace conflict resolution a game that EVERYBODY wins! Recent studies show that typical managers devote more than a quarter of their time to resolving coworker disputes. The Big Book of Conflict-Resolution Games offers a wealth of activities and exercises for groups of any size that let you manage your business (instead of managing personalities). Part of the acclaimed,

bestselling Big Books series, this guide offers step-by-step directions and customizable tools that empower you to heal rifts arising from ineffective communication, cultural/personality clashes, and other specific problem areas—before they affect your organization's bottom line. Let The Big Book of Conflict-Resolution Games help you to: Build trust Foster morale Improve processes Overcome diversity issues And more Dozens of physical and verbal activities help create a safe environment for teams to explore several common forms of conflict—and their resolution. Inexpensive, easy-to-implement, and proved effective at Fortune 500 corporations and mom-and-pop businesses alike, the exercises in The Big Book of Conflict-Resolution Games delivers everything you need to make your workplace more efficient, effective, and engaged.

Quantum Manjit Kumar 2008-10-02 '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 World As I See It Albert Einstein 2021-01-01 The World as I See It is a book by Albert Einstein translated from the German by A. Harris and published in 1935 by John Lane The Bodley Head. The original German book is Mein Weltbild by Albert Einstein, first published in 1934 by Rudolf Kayser.

New Scientist 2009

The Science Book DK 2015-02-02 Did the Universe start with a Big Bang? Is light a wave, a particle - or both? Are we the cause of global warming? Science has made it possible to comprehend the world we live in and the theoretical multiverses beyond, offering technological advances and extending the frontiers of knowledge. Written in plain English, The Science Book presents 80 of the most trailblazing ideas in physics, chemistry, and biology. It is packed with short, pithy explanations that cut through the jargon, step-by-step diagrams that untangle knotty theories, classic quotes that make scientific discoveries memorable, and witty illustrations that enhance and play with our understanding of science. Whatever your grasp of the subject, whether you're a keen student or an armchair expert, you'll find plenty to stimulate you within this book. Part of the popular "Big Ideas" series, The Science Book is the perfect way to explore this fascinating subject.

Spectrum Science, Grade 5 2014-08-15 Cultivate a love for science by providing standards-based practice that captures children’s attention. Spectrum Science for grade 5 provides interesting informational text and fascinating facts about galaxies, subatomic particles, identical twins, and the first airplane. When children develop a solid understanding of science, they’re preparing for success. Spectrum Science for grades 3-8 improves scientific literacy and inquiry skills through an exciting exploration of natural, earth, life, and applied sciences. With the help of this best-selling series, your young scientist can discover and appreciate the extraordinary world that surrounds them!

The Big Ideas in Physics and How to Teach Them Ben Rogers 2018-04-18 The Big Ideas in Physics and How to Teach Them provides all of the knowledge and skills you need to teach physics effectively at secondary level. Each chapter provides the historical narrative behind a Big Idea, explaining its significance, the key figures behind it, and its place in scientific history. Accompanied by detailed ready-to-use lesson plans and classroom activities, the book expertly fuses the ‘what to teach’ and the ‘how to teach it', creating an invaluable resource which contains not only a thorough explanation of physics, but also the applied pedagogy to ensure its effective translation to students in the classroom. Including a wide range of teaching strategies, archetypal assessment questions and model answers, the book tackles misconceptions and offers succinct and simple explanations of complex topics. Each of the five big ideas in physics are covered in detail: electricity forces energy particles the universe. Aimed at new and trainee physics teachers, particularly non-specialists, this book provides the knowledge and skills you need to teach physics successfully at secondary level, and will inject new life into your physics teaching.

Brilliant Blunders Mario Livio 2013-05-14 Drawing on the lives of five great scientists, this “scholarly, insightful, and beautifully written book” (Martin Rees, author of From Here to Infinity) illuminates the path to scientific discovery. Charles Darwin, William Thomson (Lord Kelvin), Linus Pauling, Fred Hoyle, and Albert Einstein all made groundbreaking contributions to their fields—but each also stumbled badly. Darwin’s theory of natural selection shouldn’t have worked, according to the prevailing beliefs of his time. Lord Kelvin gravely miscalculated the age of the earth. Linus Pauling, the world’s premier chemist, constructed an erroneous model for DNA in his haste to beat the competition to publication. Astrophysicist Fred Hoyle dismissed the idea of a “Big Bang” origin to the universe (ironically, the caustic name he gave to this event endured long after his erroneous objections were disproven). And Albert Einstein speculated incorrectly about the forces of the universe—and that speculation opened the door to brilliant conceptual leaps. As Mario Livio luminously explains in this “thoughtful meditation on the course of science itself” (The New York Times Book Review), these five scientists expanded our knowledge of life on earth, the evolution of the earth, and the evolution of the universe, despite and because of their errors. “Thoughtful, well-researched, and beautifully written” (The Washington Post), Brilliant Blunders is a wonderfully insightful examination of the psychology of five fascinating scientists—and the mistakes as well as the achievements that made them famous.

The God Equation Michio Kaku 2021-04-06 '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.

Einstein and the Birth of Big Science Peter Coles 2000 Einstein is a 'pop' totem, the Marilyn Monroe of science.

The Innovator's DNA Jeff Dyer 2011-07-12 A new classic, cited by leaders and media around the globe as a highly recommended read for anyone interested in innovation. In The Innovator’s DNA, authors Jeffrey Dyer, Hal Gregersen, and bestselling author Clayton Christensen (The Innovator’s Dilemma, The Innovator’s Solution, How Will You Measure Your Life?) build on what we know about disruptive innovation to show how individuals can develop the skills necessary to move progressively from idea to impact. By identifying behaviors of the world’s best innovators—from leaders at Amazon and Apple to those at Google, Skype, and Virgin Group—the authors outline five discovery skills that distinguish innovative entrepreneurs and executives from ordinary managers: Associating, Questioning, Observing, Networking, and Experimenting. Once you master these competencies (the authors provide a self-assessment for rating your own innovator’s DNA), the authors explain how to generate ideas, collaborate to implement them, and build innovation skills throughout the organization to result in a competitive edge. This innovation advantage will translate into a premium in your company’s stock price—an innovation premium—which is possible only by building the code

for innovation right into your organization’s people, processes, and guiding philosophies. Practical and provocative, The Innovator’s DNA is an essential resource for individuals and teams who want to strengthen their innovative prowess.

Einstein and the Quantum A. Douglas Stone 2015-10-06 Einstein and the Quantum reveals for the first time the full significance of Albert Einstein's contributions to quantum theory. Einstein famously rejected quantum mechanics, observing that God does not play dice. But, in fact, he thought more about the nature of atoms, molecules, and the emission and absorption of light--the core of what we now know as quantum theory--than he did about relativity. A compelling blend of physics, biography, and the history of science, Einstein and the Quantum shares the untold story of how Einstein--not Max Planck or Niels Bohr--was the driving force behind early quantum theory. It paints a vivid portrait of the iconic physicist as he grappled with the apparently contradictory nature of the atomic world, in which its invisible constituents defy the categories of classical physics, behaving simultaneously as both particle and wave. And it demonstrates how Einstein's later work on the emission and absorption of light, and on atomic gases, led directly to Erwin Schrödinger's breakthrough to the modern form of quantum mechanics. The book sheds light on why Einstein ultimately renounced his own brilliant work on quantum theory, due to his deep belief in science as something objective and eternal.

Using Science Notebooks in Elementary Classrooms Michael P. Klentschy 2008 A valuable resource for helping students develop and demonstrate an understanding of science content.

Moonwalking with Einstein Joshua Foer 2012 Having achieved the seemingly unachievable, becoming a U.S. Memory Champion, Foer shows how anyone with enough training and determination can achieve mastery of their memory.

Einstein's Dreams Alan Lightman 2012-04-05 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.

Introduction to Probability Joseph K. Blitzstein 2014-07-24 Developed from celebrated Harvard statistics lectures, Introduction to Probability provides essential language and tools for understanding statistics, randomness, and uncertainty. The book explores a wide variety of applications and examples, ranging from coincidences and paradoxes to Google PageRank and Markov chain Monte Carlo (MCMC). Additional application areas explored include genetics, medicine, computer science, and information theory. The print book version includes a code that provides free access to an eBook version. The authors present the material in an accessible style and motivate concepts using real-world examples. Throughout, they use stories to uncover connections between the fundamental distributions in statistics and conditioning to reduce complicated problems to manageable pieces. The book includes many intuitive explanations, diagrams, and practice problems. Each chapter ends with a section showing how to perform relevant simulations and calculations in R, a free statistical software environment.

Science, Grade 5 Spectrum 2008-04-15 Our proven Spectrum Science grade 5 workbook features 144 pages of fundamentals in science learning. Developed to current national science standards, covering all aspects of fifth grade science education. This workbook for children ages 10 to 11 includes exercises that reinforce science skills across the different science areas. Science skills include: • Safe Science Practices • Electromagnetism • Diversity and Adaptation • Structure of Earth • Technological Evolution • Resource Conservation • Science History Our best-selling Spectrum Science series features age-appropriate workbooks for grade 3 to grade 8. Developed with the latest standards-based teaching methods that provide targeted practice in science fundamentals to ensure successful learning!

The new Big Bang Theory, Black Holes and the Multiverse explained Dr Roger Wood 2021-04-13 The key proposal within the discussed GLEW theory is that the quantum particles of gravity (gravitons) move faster than the accepted speed of light photons. Gravity is asserted as the smallest of all particles (known, undiscovered and never to be discovered) within all quantum and cosmological theory. Gravity particles are constantly interacting with other fundamental particles in order to maintain balance and order within the Multiverse. When gravity travels at the speed of light, it is both carrying photons and taking them to a speed where they are neither visible nor detectable: gravitons and photons travel together as Gravity-Light Energized Waves (abbreviated to GLEW, pronounced glue). That is, non-detectable photons travel faster than the asserted mathematical speed of light, expressed as c. When GLEW streams decelerate to the point where photons are travelling at a velocity that light becomes detectable, this is the point at which the Gravity-Light Acceleration-Related Energy (GLARE) threshold velocity is achieved.

The Writing Thief Ruth Culham 2016-08-26 It's been said that good writers borrow while great writers steal. Writing thieves read widely, dive deeply into texts, and steal bits and pieces from great texts as models for their own writing. Ruth Culham admits to being a writing thief--and she wants you and your students to become writing thieves, too! A major part of good writing instruction is finding the right mentor texts to share with students. Within this book, you'll discover more than 90 excellent mentor texts, along with straight-forward activities that incorporate the traits of writing across informational, narrative, and argument modes. Chapters also include brief essays from beloved writing thieves such as Lester Laminack, David L. Harrison, Lisa Yee, Nicola Davies, Ralph Fletcher, Toni Buzzeo, Lola Schaefer, and Kate Messner, detailing the reading that has influenced their own writing. Ruth's renowned easy-going style and friendly tone make this a book you'll turn to again and again as you guide your students to reach their full potential as deep, thoughtful readers and great writers. There's a writing thief in each of us when we learn how to read with a writer's eye!

A More Beautiful Question Warren Berger 2014-03-04 To get the best answer-in business, in life-you have to ask the best possible question. Innovation expert Warren Berger shows that ability is both an art and a science. It may be the most underappreciated tool at our disposal, one we learn to use well in infancy-and then abandon as we grow older. Critical to learning, innovation, success, even to happiness-yet often discouraged in our schools and workplaces-it can unlock new business opportunities and reinvent industries, spark creative insights at many levels, and provide a transformative new outlook on life. It is the ability to question-and to do so deeply, imaginatively, and “beautifully.” In this fascinating exploration of the surprising power of questioning, innovation expert Warren Berger reveals that powerhouse businesses like Google, Nike, and Netflix, as well as hot Silicon Valley startups like Pandora and Airbnb, are fueled by the ability to ask fundamental, game-changing questions. But Berger also shares human stories of people using questioning to solve everyday problems-from “How can I adapt my career in a time of constant change?” to “How can I step back from the daily rush and figure out what really makes me happy?” By showing how to approach questioning with an open, curious mind and a willingness to work through a series of “Why,” “What if,” and “How” queries, Berger offers an inspiring framework of how we can all arrive at better solutions, fresh possibilities, and greater success in business and life.

The Physics Book DK 2020-03-05 Explore the laws and theories of physics in this accessible introduction to the forces that shape our Universe, our planet, and our everyday lives. Using a bold, graphic-led approach The Physics Book sets out more than 80 key concepts and discoveries that have defined the subject and influenced our technology since the beginning of time. With the focus firmly on unpicking the thought behind each theory - as well as exploring when and how each idea and breakthrough came about - seven themed chapters examine the history and developments in areas such as energy and matter, and electricity and magnetism, as well as quantum, nuclear, and particle physics. Eureka moments abound: from Pythagoras's observations of the pleasing harmonies created by vibrating strings, and Galileo's experiments with spheres, to Isaac Newton's apple and his conclusions about gravity and the laws of motion. You'll also learn about Albert Einstein's insights into relativity; how the accidental discovery of cosmic microwave background radiation confirmed the Big Bang theory; the search for the Higgs boson particle; and why most of our Universe is missing. If you've ever wondered exactly how physicists formulated - and proved - these abstract concepts, The Physics Book is the book for you.

Lise Meitner Rachel Barron 2000 A biography of the Austrian scientist whose discoveries in nuclear physics played a major part in developing atomic energy.

Answer is Blowing in the Wind Robin Moulik 2016-04-01 With a thought-provoking insight into the possibility of life beyond Earth within the universe, the story explores the history of our past, present and the future ahead. It helps our understanding of the ages of the Galaxy, the Solar System and other planetary systems in the Milky Way that could answer mankind?s all speculations on life beyond Earth. This book is an ode to all the great achievements of humanity and to those courageous brave men and women who dared to venture into the mysterious space that is beyond our planet to discover other unknown worlds and rewrite the history of mankind. Answer is Blowing in the Wind also portrays the current developments in space science and technology and space discoveries that are unfolding many unknown secrets of the Universe today.

The Man Who Changed Everything Basil Mahon 2015-04-08 This is the first biography in twenty years of James Clerk Maxwell, one of the greatest scientists of our time and yet a man relatively unknown to the wider public. Approaching science with a freshness unbound by convention or previous expectations, he produced some of the most original scientific thinking of the nineteenth century — and his discoveries went on to shape the twentieth century.

Einstein Walter Isaacson 2008-09-04 NOW A MAJOR SERIES 'GENIUS' ON NATIONAL GEOGRAPHIC, PRODUCED BY RON HOWARD AND STARRING GEOFFREY RUSH Einstein is the great icon of our age: the kindly refugee from oppression whose wild halo of hair, twinkling eyes, engaging humanity and extraordinary brilliance made his face a symbol and his name a synonym for genius. He was a rebel and nonconformist from boyhood days. His character, creativity and imagination were related, and they drove both his life and his science. In this marvellously clear and accessible narrative, Walter Isaacson explains how his mind worked and the mysteries of the universe that he discovered. Einstein's success came from questioning conventional wisdom and marvelling at mysteries that struck others as mundane. This led him to embrace a worldview based on respect for free spirits and free individuals. All of which helped make Einstein into a rebel but with a reverence for the harmony of nature, one with just the right blend of imagination and wisdom to transform our understanding of the universe. This new biography, the first since all of Einstein's papers have become available, is the fullest picture yet of one of the key figures of the twentieth century. This is the first full biography of Albert Einstein since all of his papers have become available -- a fully realised portrait of this extraordinary human being, and great genius. Praise for EINSTEIN by Walter Isaacson:- 'YOU REALLY MUST READ THIS.' Sunday Times 'As pithy as Einstein himself.' New Scientist '[A] brilliant biography, rich with newly available archival material.' Literary Review 'Beautifully written, it renders the physics understandable.' Sunday Telegraph 'Isaacson is excellent at explaining the science. ' Daily Express

Lise Meitner Ruth Lewin Sime 1996 Traces the life of a Jewish physicist who had to flee Nazi Germany, codiscovered nuclear fission with Otto Hahn and Fritz Strassmann, but was denied recognition when the work received a Nobel Prize

Human Frontiers Michael Bhaskar 2022-08-02 Why has the flow of big, world-changing ideas slowed down? A provocative look at what happens next at the frontiers of human knowledge. The history of humanity is the history of big ideas that expand our frontiers—from the wheel to space flight, cave painting to the massively multiplayer game, monotheistic religion to quantum theory. And yet for the past few decades, apart from a rush of new gadgets and the explosion of digital technology, world-changing ideas have been harder to come by. Since the 1970s, big ideas have happened incrementally—recycled, focused in narrow bands of innovation. In this provocative book, Michael Bhaskar looks at why the flow of big, world-changing ideas has slowed, and what this means for the future. Bhaskar argues that the challenge at the frontiers of knowledge has arisen not because we are unimaginative and bad at realizing big ideas but because we have already pushed so far. If we compare the world of our great-great-great-grandparents to ours today, we can see how a series of transformative ideas revolutionized almost everything in just a century and a half. But recently, because of short-termism, risk aversion, and fractious decision making, we have built a cautious, unimaginative world. Bhaskar shows how we can start to expand the frontier again by thinking big—embarking on the next Universal Declaration of Human Rights or Apollo mission—and embracing change.

The Travel Diaries of Albert Einstein Albert Einstein 2018-05-29 Albert Einstein’s travel diary to the Far East and Middle East In the fall of 1922, Albert Einstein, along with his then-wife, Elsa Einstein, embarked on a five-and-a-half-month voyage to the Far East and Middle East, regions that the renowned physicist had never visited before. Einstein's lengthy itinerary consisted of stops in Hong Kong and Singapore, two brief stays in China, a six-week whirlwind lecture tour of Japan, a twelve-day tour of Palestine, and a three-week visit to Spain. This handsome edition makes available the complete journal that Einstein kept on this momentous journey. The telegraphic-style diary entries record Einstein's musings on science, philosophy, art, and politics, as well as his immediate impressions and broader thoughts on such events as his inaugural lecture at the future site of the Hebrew University in Jerusalem, a garden party hosted by the Japanese Empress, an audience with the King of Spain, and meetings with other prominent colleagues and statesmen. Entries also contain passages that reveal Einstein's stereotyping of members of various nations and raise questions about his attitudes on race. This beautiful edition features stunning facsimiles of the diary's pages, accompanied by an English translation, an extensive historical introduction, numerous illustrations, and annotations. Supplementary materials include letters, postcards, speeches, and articles, a map of the voyage, a chronology, a bibliography, and an index. Einstein would go on to keep a journal for all succeeding trips abroad, and this first volume of his travel diaries offers an initial, intimate glimpse into a brilliant mind encountering the great, wide world.

Dinosaurs and Dioramas Sarah J Chicone 2016-06-16 Two experienced exhibit designers lead you through the complex process of design and installation of natural history exhibitions. The authors introduce the history and function of natural history museums and their importance in teaching visitors the basic principles of science. The book then offers you practical tricks and tips of the trade, to allow museums, aquaria, and zoos—large or small—to tell the story of nature and science. From overall concept to design, construction, and evaluation, the book carries you through the process step-by-step, with emphasis on the importance of collaboration and teamwork for a successful installation. A crucial addition to the bookshelf of anyone involved in exhibit design or natural history museums.

The Order of Time Carlo Rovelli 2018-04-26 'A dazzling book ... the new Stephen Hawking' Sunday Times The bestselling author of Seven Brief Lessons on Physics takes us on an enchanting, consoling journey to discover the meaning of time 'We are time. We are this space, this clearing opened by the traces of memory inside the connections between our neurons. We are memory. We are nostalgia. We are longing for a future that will not come.' Time is a mystery that does not cease to puzzle us. Philosophers, artists and poets have long explored its meaning while scientists have found that its structure is different from the simple intuition we have of it. From Boltzmann to quantum theory, from Einstein to loop quantum gravity, our understanding of time has been undergoing radical transformations. Time flows at a different speed in different places, the past and the future differ far less than we might think, and the very notion of the present evaporates in the vast universe. With his extraordinary charm and sense of wonder, bringing together science, philosophy and art, Carlo Rovelli unravels this mystery. Enlightening and consoling, The Order of Time shows that to understand ourselves we need to reflect on time -- and to understand time we need to reflect on ourselves. Translated by Simon Carnell and Erica Segre

Einstein's Wife Allen Esterson 2020-02-25 Was Einstein's first wife his uncredited coauthor, unpaid assistant, or his unacknowledged helpmeet? The real “Mileva Story.” Albert Einstein's first wife, Mileva Einstein-Marić, was forgotten for decades. When a trove of correspondence between them beginning in their student days was discovered in 1986, her story began to be told. Some of the tellers of the “Mileva Story” made startling claims: that she was a brilliant mathematician who surpassed her husband, and that she made uncredited contributions to his most celebrated papers in 1905, including his paper on special relativity. This book, based on extensive historical research, uncovers the real “Mileva Story.” Mileva was one of the few women of her era to pursue higher education in science; she and Einstein were students together at the Zurich Polytechnic. Mileva's ambitions for a science career, however, suffered a series of setbacks—failed diploma examinations, a disagreement with her doctoral dissertation adviser, an out-of-wedlock pregnancy by Einstein. She and Einstein married in 1903 and had two sons, but the marriage failed. Was Mileva her husband's uncredited coauthor, unpaid assistant, or his essential helpmeet? It's tempting to believe that she was her husband's secret collaborator, but the authors of Einstein's Wife look at the actual evidence, and a chapter by Ruth Lewin Sime offers important historical context. The story they tell is that of a brave and determined young woman who struggled against a variety of obstacles at a time when science was not very welcoming to women.

The Encyclopaedia Britannica 2020-12-15 This book has been considered by academicians and scholars of great significance and value to literature. This forms a part of the knowledge base for future generations. So that the book is never forgotten we have represented this book in a print format as the same form as it was originally first published. Hence any marks or annotations seen are left intentionally to preserve its true nature.

Cosmic Horizons Steven Soter 2001 Leading scientists offer a collection of essays that furnish illuminating explanations of recent discoveries in modern astrophysics--from the Big Bang to black holes--the possibility of life on other worlds, and the emerging technologies that make such research possible, accompanied by incisive profiles of such key figures as Carl Sagan and Georges Lemaetre. Original.

The Legacy of Albert Einstein Spenta R. Wadia 2007 This indispensable volume contains a compendium of articles covering a vast range of topics in physics which were begun or influenced by the works of Albert Einstein: special relativity, quantum theory, statistical physics, condensed matter physics, general relativity, geometry, cosmology and unified field theory. An essay on the societal role of Einstein is included. These articles, written by some of the renowned experts, offer an insider's view of the exciting world of fundamental science. Sample Chapter(s). Chapter 1: Einstein and the Search for Unification (625 KB). Contents: Einstein and the Search for Unification (D Gross); Einstein and Geometry (M Atiyah); String Theory and Einstein's Dream (A Sen); Black Hole Entropy in String Theory: A Window into the Quantum Structure of Gravity (A Dabholkar); The Winding Road to Quantum Gravity (A Ashtekar); Brownian Functionals in Physics and Computer Science (S N Majumdar); Bose-Einstein Condensation: Where Many Become One and So There is Plenty of Room at the Bottom (N Kumar); Many Electrons Strongly Avoiding Each Other: Strange Goings On (T V Ramakrishnan); Einstein and the Quantum (V Singh); Einstein's Legacy: Relativistic Cosmology (J V Narlikar); Einstein's Universe: The Challenge of Dark Energy (S Sarkar); Gravitational Radiation OCo In Celebration of Einstein's Annus Mirabilis (B S Sathyaprakash); Albert Einstein: Radical Pacifist and Democrat (T Jayaraman). Readership: Physicists, mathematicians and academics."