[DOC] Sette Brevi Lezioni Di Fisica Opere Di Carlo Rovelli

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Sette brevi lezioni di fisica-Carlo Rovelli 2017-05-25T00:00:00+02:00 Ci sono frontiere della conoscenza dove brucia il nostro desiderio di sapere: sono nelle profondità più minute del tessuto dello spazio, nelle origini del cosmo, nella natura del tempo, nella destinazione dei buchi neri. Qui, a contatto con l'oceano di quanto non sappiamo, bellezza e mistero ci lasciano senza fiato. Queste 'lezioni' delineano una rapida panoramica della rivoluzione avvenuta nella fisica del XX secolo e della ricerca in corso, discorrendo, con ammirevole trasparenza, della teoria della relatività generale di Einstein, della meccanica quantistica, dell'architettura del cosmo, delle particelle elementari, della gravità quantistica, della probabilità e del calore dei buchi neri, della natura del tempo e di altro ancora.
Seven Brief Lessons on Physics-Carlo Rovelli 2016-03-01 The New York Times bestseller from the author of The Order of Time and Reality Is Not What It Seems "One of the year's most entrancing books about science."—The Wall Street Journal "Clear, elegant...a whirlwind tour of some of the biggest ideas in physics."—The New York Times Book Review This playful, entertaining, and mind-bending introduction to modern physics briskly explains Einstein's general relativity, quantum mechanics, elementary particles, gravity, black holes, the complex architecture of the universe, and the role humans play in this weird and wonderful world. Carlo Rovelli, a renowned theoretical physicist, is a delightfully poetic and philosophical scientific guide. He takes us to the frontiers of our knowledge: to the most minute reaches of the fabric of space, back to the origins of the cosmos, and into the workings of our minds. The book celebrates the joy of discovery. "Here, on the edge of what we know, in contact with the ocean of the unknown, shines the mystery and the beauty of the world," Rovelli writes. "And it's breathtaking."
What is Time? What is Space?-Carlo Rovelli 2015
There Are Places in the World Where Rules Are Less Important Than Kindness-Carlo Rovelli 2020-11-05 One of our most beloved scientists and the international bestselling author of Seven Brief Lessons on Physics, Carlo Rovelli is also a masterful storyteller. In this collection of writings, the logbook of an intelligence always on the move, he follows his curiosity and invites us on a voyage through science, literature, philosophy and politics. Written with his usual clarity and wit, these pieces, most of which were first published in Italian newspapers, range widely across time and space: from Newton's alchemy to Einstein's mistakes, from Nabokov's lepidoptery to Dante's cosmology, from travels in Africa to the consciousness of an octopus, from mind-altering psychedelic substances to the meaning of atheism. Charming, pithy and elegant, this book is the perfect gateway to the universe of one of the most influential physicists of our age.
Sette brevi lezioni di relatività-Giuseppe Vatinno 2015
Monster of God: The Man-Eating Predator in the Jungles of History and the Mind-David Quammen 2004-09-17 "Rich detail and vivid anecdotes of adventure....A treasure trove of exotic fact and hard thinking."—The New York Times Book Review, front page For millennia, lions, tigers, and their man-eating kin have kept our dark, scary forests dark and scary, and their predatory majesty has been the stuff of folklore. But by the year 2150 big predators may only exist on the other side of glass barriers and chain-link fences. Their gradual disappearance is changing the very nature of our existence. We no longer occupy an intermediate position on the food chain; instead we survey it invulnerably from above—so far above that we are in danger of forgetting that we even belong to an ecosystem. Casting his expert eye over the rapidly diminishing areas of wilderness where predators still reign, the award-winning author of The Song of the Dodo examines the fate of lions in India's Gir forest, of saltwater crocodiles in northern Australia, of brown bears in the mountains of Romania, and of Siberian tigers in the Russian Far East. In the poignant and troublesome ferocity of these embattled creatures, we recognize something primeval deep within us, something in danger of vanishing forever.
The Order of Time-Carlo Rovelli 2019-12-10 One of TIME's Ten Best Nonfiction Books of the Decade "Meet the new Stephen Hawking . . . The Order of Time is a dazzling book." --The Sunday Times From the bestselling author of Seven Brief Lessons on Physics, comes a concise, elegant exploration of time. Why do we remember the past and not the future? What does it mean for time to "flow"? Do we exist in time or does time exist in us? In lyric, accessible prose, Carlo Rovelli invites us to consider questions about the nature of time that continue to puzzle physicists and philosophers alike. For most readers this is unfamiliar terrain. We all experience time, but the more scientists learn about it, the more mysterious it remains. We think of it as uniform and universal, moving steadily from past to future, measured by clocks. Rovelli tears down these assumptions one by one, revealing a strange universe where at the most fundamental level time disappears. He explains how the theory of quantum gravity attempts to understand and give meaning to the resulting extreme landscape of this timeless world. Weaving together ideas from philosophy, science and literature, he suggests that our perception of the flow of time depends on our perspective, better understood starting from the structure of our brain and emotions than from the physical universe. Already a bestseller in Italy, and written with the poetic vitality that made Seven Brief Lessons on Physics so appealing, The Order of Time offers a profoundly intelligent, culturally rich, novel appreciation of the mysteries of time.
L'ordine del tempo-Carlo Rovelli 2017-05-25T00:00:00+02:00 Come le "Sette brevi lezioni di fisica", che ha raggiunto un pubblico immenso in ogni parte del mondo, questo libro tratta di qualcosa della fisica che parla a chiunque e lo coinvolge, semplicemente perché è un mistero di cui ciascuno ha esperienza in ogni istante: il tempo. E un mistero non solo per ogni profano, ma anche per i fisici, che hanno visto il tempo trasformarsi in modo radicale, da Newton a Einstein, alla meccanica quantistica, infine alle teorie sulla gravità a loop, di cui Rovelli stesso è uno dei principali teorici. Nelle equazioni di Newton era sempre presente, ma oggi nelle equazioni fondamentali della fisica il tempo sparisce. Passato e futuro non si oppongono più come a lungo si è pensato. E a dileguarsi per la fisica è proprio ciò che chiunque crede sia l'unico elemento sicuro: il presente. Sono tre esempi degli incontri straordinari su cui si concentra questo libro, che è uno sguardo su ciò che la fisica è stata e insieme ci introduce nell'officina dove oggi la fisica si sta facendo.
Reality Is Not What It Seems-Carlo Rovelli 2018 "What are the elementary ingredients of the world? Do time and space exist? And what exactly is reality? In elegant and accessible prose, theoretical physicist Carlo Rovelli leads us on a wondrous journey from Democritus to Einstein, from Michael Faraday to gravitational waves, and from classical physics to his own work in quantum gravity. As he shows us how the idea of reality has evolved over time, Rovelli offers deeper explanations of the theories he introduced so concisely in Seven Brief Lessons on Physics"--page 4 of cover.
Anaximander-Carlo Rovelli 2016-09 "Marvelous. . . . A wonderful book."--Humana.Mente "Rovelli is the dream author to conduct us on this journey."--Nonfiction.fr "At this point in time, when the prestige of science is at a low and even simple issues like climate change are mired in controversy, Carlo Rovelli gives us a necessary reflection on what science is, and where it comes from. Rovelli is a deeply original thinker, so it is not surprising that he has novel views on the important questions of the nature and origin of science."--Lee Smolin, founding member and researcher at the Perimeter Institute for Theoretical Physics and author of The Trouble with Physics Winner of the Prix du Livre Haute Maurienne de l'Astronomie Carlo Rovelli, a leading theoretical physicist, uses the figure of Anaximander as the starting point for an examination of scientific thinking itself: its limits, its strengths, its benefits to humankind, and its controversial relationship with religion. Anaximander, the sixth-century BC Greek philosopher, is often called the first scientist because he was the first to suggest that order in the world was due to natural forces, not supernatural ones. He is the first person known to understand that the Earth floats in space; to believe that the sun, the moon, and the stars rotate around it--seven centuries before Ptolemy; to argue that all animals came from the sea and evolved; and to posit that universal laws control all change in the world. Anaximander taught Pythagoras, who would build on Anaximander's scientific theories by applying mathematical laws to natural phenomena. In the award-winning The First Scientist: Anaximander and His Legacy, translated here for the first time in English, Rovelli restores Anaximander to his place in the history of science by carefully reconstructing his theories from what is known to us and examining them in their historical and philosophical contexts. Rovelli demonstrates that Anaximander's discoveries and theories were decisive influences, putting Western culture on its path toward a scientific revolution. Developing this connection, Rovelli redefines science as a continuous redrawing of our conceptual image of the world. He concludes that scientific thinking--the legacy of Anaximander--is only reliable when it constantly tests the limits of our current knowledge.
Scientifica Historica-Brian Clegg 2019-10-01 Scientifica Historica is an illustrated, essay-based review of those books that marked the development of science from ancient civilizations to the new millennium. The book is divided into five eras and explores the leading scientific pioneers, discoveries and books within them: Ancient World – looks at the beginnings of language, plus the first ever scientific documents produced and translated Renaissance in Print – explores the effects of the invention of the printing press and the exploration of the seas and skies Modern Classical – surveys the nineteenth century and the development of science as a profession Post-Classical – dissects the twentieth century and the introduction of relativity, quantum theory and genetics The Next Generation – reviews the period from 1980 to the modern day, showing how science has become accessible to the general public Plus an introduction to the history and development of writing and books in general, and a list of the 150 greatest science books published. From carvings and scrolls to glossy bound tomes, this book beautifully illustrates the evolution of scientific communication to the world. By recounting the history of science via its key works—those books written by the keenest minds our world has known—this book reflects the physical results of brilliant thought manifested in titles that literally changed the course of knowledge.
Sette lezioni di astronomia-Ivan Spelti 2016-01-20 Un corso di base in Astronomia, in sette lezioni, in cui il taglio didattico coniuga scoperte, notizie e biografie entro un percorso storico che parte dall'antichità e giunge fino ai nostri giorni. Astronomia antica, rivoluzione copernicana, Galileo e Newton, stelle e nebulose, relatività ed espansione dell'universo, le moderne idee sulla struttura dell'universo, i mondi extraterrestri, sono gli argomenti trattati, al fine di costruire un primo sapere unitario sull'Astronomia. La prima delle scienze. Si dice così dell'Astronomia. Ma come si è sviluppata la conoscenza del cosmo dall'antichità e come procede oggi? L'autore ci propone un lungo viaggio volto a conoscere la "storia delle idee sul cielo" e le ultime novità sulle attuali conoscenze dell'universo del Big Bang. All'amico che tempo fa gli scrisse "hai già pronto il materiale, perché non lo sintetizzi in sette lezioni?" l'autore rispose "forse attendevo il tuo invito: quanto poi al sintetizzarlo... è accaduto l'esatto contrario!" Le lezioni sono organizzate partendo dalle schede proposte ai corsisti di una Libera Università e si rivolgono al lettore appassionato di astronomia, ma non abituato a formule complicate. La ricca Appendice sviluppa alcuni degli argomenti e ne introduce dei nuovi: come funziona il GPS e cos'è il Principio Antropico.
Mind and Places-Anna Anzani 2020-05-12 This book explores the contributions of psychological, neuroscientific and philosophical perspectives to the design of contemporary cities. Pursuing an innovative and multidisciplinary approach, it addresses the need to re-launch knowledge and creativity as major cultural and institutional bases of human communities. Dwelling is a form of knowledge and re-invention of reality that involves both the tangible dimension of physical places and their mental representation. Findings in the neuroscientific field are increasingly opening stimulating perspectives on the design of spaces, and highlight how our ability to understand other people is strongly related to our corporeity. The first part of the book focuses on the contributions of various disciplines that deal with the spatial dimension, and explores the dovetailing roles that science and art can play from a multidisciplinary perspective. In turn, the second part formulates proposals on how to promote greater integration between the aesthetic and cultural dimension in spatial design. Given its scope, the book will benefit all scholars, academics and practitioners who are involved in the process of planning, designing and building places, and will foster an international exchange of research, case studies, and theoretical reflections to confront the challenges of designing conscious places and enable the development of communities.
The Origin of the World-Pierre Michon 2013-10-22 A young teacher takes his first job in a sleepy French town and falls under the spell the seductive and charming Yvonne.
Traitor to the Throne-Alwyn Hamilton 2017-03-07 The sizzling, un-put-downable sequel to the New York Times bestselling Rebel of the Sands, by Goodreads Choice Awards Best Debut Author of 2016 Alwyn Hamilton! Mere months ago, gunslinger Amani al'Hiza fled her dead-end hometown on the back of a mythical horse with the mysterious foreigner Jin, seeking only her own freedom. Now she's fighting to liberate the entire desert nation of Miraji from a bloodthirsty sultan who slew his own father to capture the throne. When Amani finds herself thrust into the epicenter of the regime—the Sultan's palace—she's determined to bring the tyrant down. Desperate to uncover the Sultan's secrets by spying on his court, she tries to forget that Jin disappeared just as she was getting closest to him, and that she's a prisoner of the enemy. But the longer she remains, the more she questions whether the Sultan is really the villain she's been told he is, and who's the real traitor to her sun-bleached, magic-filled homeland. Forget everything you thought you knew about Miraji, about the rebellion, about djinni and Jin and the Blue-Eyed Bandit. In Traitor to the Throne, the only certainty is that everything will change. Rebel of the Sands was a New York Times bestseller, published in fifteen countries and the recipient of four starred reviews and multiple accolades, with film rights optioned by Willow Smith. And its sequel is even better.
Quantum Physics for Poets-Leon M. Lederman The Times Literary Supplement called their previous book, Symmetry and the Beautiful Universe: [A] tour de force of physics made simple.Quantum theory is the bedrock of contemporary physics and the basis of understanding matter in its tiniest dimensions and the vast universe as a whole. But for many, the theory remains an impenetrable enigma.Nobel Prize laureate Leon M. Lederman and Fermi lab theoretical physicist Christopher T. Hill seek to remedy this situation by both drawing on their scientific expertise and their talent for communicating science to the general reader. In this lucid, informative book, designed for the curious, they make the seemingly daunting subject of quantum physics accessible, appealing, and exciting.Their story is partly historical, covering the many Eureka moments when great scientists-Max Planck, Albert Einstein, Niels Bohr, Werner Heisenberg, Erwin Schrödinger, and others-struggled to come to grips with the bizarre realities that quantum research revealed. Although their findings were indisputably proven in experiments, they were so strange and counterintuitive that Einstein refused to accept quantum theory, despite its great success.The authors explain the many strange and even eerie aspects of quantum reality at the subatomic level, from particles that can be many places simultaneously and sometimes act more like waves, to the effect that a human can have on their movements by just observing them!Finally, Drs. Lederman and Hill delve into quantum physics' latest and perhaps most breathtaking offshoots-field theory and string theory. The intricacies and ramifications of these two theories will give the reader much to ponder. In addition, the authors describe the diverse applications of quantum theory in its almost countless forms of modern technology throughout the world.Using eloquent analogies and illustrative examples, Quantum Physics for Poets render even the most profound reaches of quantum theory understandable and something for us all to savor.Leon M. Lederman, Nobel Laureate (Batavia, IL), is Resident Scholar at the Illinois Mathematics and Science Academy, Director Emeritus of Fermi National Accelerator Laboratory, Pritzker Professor of Science at the Illinois Institute of Technology, the author of the highly acclaimed The God Particle, the editor of Portraits of Great American Scientists, and a contributor to Science Literacy for the Twenty-First Century. Dr. Lederman and coauthor Christopher T. Hill are also the coauthors of Symmetry and the Beautiful Universe.Christopher T. Hill, PhD (Batavia, IL), is chairman of the Department of Theoretical Physics and a theoretical physicist (Scientist III) at Fermi National Accelerator Laboratory.
Black Holes: the Reith Lectures-Stephen Hawking 2016-05-05 "It is said that fact is sometimes stranger than fiction, and nowhere is that more true than in the case of black holes. Black holes are stranger than anything dreamed up by science fiction writers." In 2016 Professor Stephen Hawking delivered the BBC Reith Lectures on a subject that has fascinated him for decades - black holes. In these flagship lectures the legendary physicist argues that if we could only understand black holes and how they challenge the very nature of space and time, we could unlock the secrets of the universe.
Quantum Gravity-Carlo Rovelli 2007-11-29 Quantum gravity is perhaps the most important open problem in fundamental physics. It is the problem of merging quantum mechanics and general relativity, the two great conceptual revolutions in the physics of the twentieth century. The loop and spinfoam approach, presented in this 2004 book, is one of the leading research programs in the field. The first part of the book discusses the reformulation of the basis of classical and quantum Hamiltonian physics required by general relativity. The second part covers the basic technical research directions. Appendices include a detailed history of the subject of quantum gravity, hard-to-find mathematical material, and a discussion of some philosophical issues raised by the subject. This fascinating text is ideal for graduate students entering the field, as well as researchers already working in quantum gravity. It will also appeal to philosophers and other scholars interested in the nature of space and time.
While the Shark is Sleeping-Milena Agus 2013-01-03 The Sevilla Mendoza family, long-time residents of the Sardinian coast, are not quite what you'd call conventional'. At the heart of the family is a girl in the throes of a dangerous affair with a married man. With a nervous mother, a dreamer for a father and an obsessive piano player for a little brother, she finds herself living a double life: one as a good daughter, the other on an erotic journey that will change her forever. While the Shark is Sleeping is an enchanting story of the loss of innocence and the desire to be loved. Extraordinary and startling' Grazia The most irresistible, untamed and imaginative sex' writer today' Il Corriere della Sera
Over Us, Over You-Whitney G. 2017-06-21 Subject: Delete this message after you read it... Dear Hayley, I'm assuming you're still hungover, so I'll make this brief. Last night, you slipped under my sheets (without my permission), and we almost had sex. I got the hell out of the bed once I realized it was you, and I took you home. That's the story. The end. Period. Just in case you've forgotten, you're my best friend's little sister. We will never be anything more. (We can't be anything more.) Our previous friendship is still unresolved--or "over" in your terms, so I'd prefer if we worked on becoming 'just friends' again since you're in town. Nonetheless, I'm not a man who leaves questions unanswered--even the drunken ones, so to properly close our inappropriate conversation: 1) Yes, I liked the way your lips felt against mine when you were on top of me. 2) Yes, I do "prefer" rough sex, but I'm pretty sure I wasn't rough with you. 3) No, I had no idea you were still a virgin... This message never happened, Corey
Fashion, Faith, and Fantasy in the New Physics of the Universe-Roger Penrose 2017-09-05 One of the world's leading physicists questions some of the most fashionable ideas in physics today, including string theory What can fashionable ideas, blind faith, or pure fantasy possibly have to do with the scientific quest to understand the universe? Surely, theoretical physicists are immune to mere trends, dogmatic beliefs, or flights of fancy? In fact, acclaimed physicist and bestselling author Roger Penrose argues that researchers working at the extreme frontiers of physics are just as susceptible to these forces as anyone else. In this provocative book, he argues that fashion, faith, and fantasy, while sometimes productive and even essential in physics, may be leading today's researchers astray in three of the field's most important areas—string theory, quantum mechanics, and cosmology. Arguing that string theory has veered away from physical reality by positing six extra hidden dimensions, Penrose cautions that the fashionable nature of a theory can cloud our judgment of its plausibility. In the case of quantum mechanics, its stunning success in explaining the atomic universe has led to an uncritical faith that it must also apply to reasonably massive objects, and Penrose responds by suggesting possible changes in quantum theory. Turning to cosmology, he argues that most of the current fantastical ideas about the origins of the universe cannot be true, but that an even wilder reality may lie behind them. Finally, Penrose describes how fashion, faith, and fantasy have ironically also shaped his own work, from twistor theory, a possible alternative to string theory that is beginning to acquire a fashionable status, to "conformal cyclic cosmology," an idea so fantastic that it could be called "conformal crazy cosmology." The result is an important critique of some of the most significant developments in physics today from one of its most eminent figures.
How To Understand E =mc2-Christophe Galfard 2017-09-21 Do something amazing and learn a new skill thanks to the Little Ways to Live a Big Life books! The beginning of the 20th century heralded a scientific revolution: what a few brilliant minds uncovered about our reality in the first twenty years has shaped the history of our species. And one of them in particular stands out: Einstein, with his celebrated E=mc2. In this remarkable and insightful book, Christophe Galfard describes how E=mc2 is a direct consequence of the Theory of Special Relativity, the theory of how objects move and behave, at speeds close to the speed of light. He considers Einstein's legacy in the light of the 21st century, with fresh hindsight, and considers its impact on our vision of reality. The reader will discover that far from being just a formula, it is a brand new understanding of the nature of space and time. Some of the greatest scientific breakthroughs in the history of science have been made by geniuses who managed to merge and unite hitherto separated domains of knowledge. Galfard explores two unifications with Einstein's theories, and looks at the even bigger picture of how E=mc2 has changed our world, and what it entails for the future. Throughout, Galfard takes the reader on an extremely entertaining journey, using simple, jargon-free language to help the reader gain a deeper understanding of science. With humour and patience, he guides us through the world of particles, anti-matter and much more to bring us closer to an ultimate understanding of reality as we understand it today.
Selected Poems and Fragments-Friedrich Hölderlin 2007-02-22 Friedrich Hölderlin (1770-1843) is now recognized as one of Europe's supreme poets. He first found his true voice in the epigrams and odes he wrote when transfigured by his love for the wife of a rich banker. He later embarked on an extraordinarily ambitious sequence of hymns exploring cosmology and history, from mythological times to the discovery of America and his own era. The 'Canticles of Night', by contrast, include enigmatic fragments in an unprecedented style, which anticipates the Symbolists and Surrealists. Together the works collected here show Hölderlin's use of Classical and Christian imagery and his exploration of cosmology and history in an attempt to find meaning in an uncertain world.
Lectures On Computation-Richard P. Feynman 1996-09-08 Covering the theory of computation, information and communications, the physical aspects of computation, and the physical limits of computers, this text is based on the notes taken by one of its editors, Tony Hey, on a lecture course on computation given b
The Incredible Journey of Plants-Stefano Mancuso 2020-03-24 In this richly illustrated volume, a leading neurobiologist presents fascinating stories of plant migration that reveal unexpected connections between nature and culture. When we talk about migrations, we should study plants to understand that these phenomena are unstoppable. In the many different ways plants move, we can see the incessant action and drive to spread life that has led plants to colonize every possible environment on earth. The history of this relentless expansion is unknown to most people, but we can begin our exploration with these surprising tales, engagingly told by Stefano Mancuso. Generation after generation, using spores, seeds, or any other means available, plants move in the world to conquer new spaces. They release huge quantities of spores that can be transported thousands of miles. The number and variety of tools through which seeds spread is astonishing: we have seeds dispersed by wind, by rolling on the ground, by animals, by water, or by a simple fall from the plant, which can happen thanks to propulsive mechanisms, the swaying of the mother plant, the drying of the fruit, and much more. In this accessible, absorbing overview, Mancuso considers how plants convince animals to transport them around the world, and how some plants need particular animals to spread; how they have been able to grow in places so inaccessible and inhospitable as to remain isolated; how they resisted the atomic bomb and the Chernobyl disaster; how they are able to bring life to sterile islands; how they can travel through the ages, as they sail around the world.
Paroles-Jacques Prevert 1958-06-01 In the years immediately following World War II, Jacques Prevert spoke directly to and for the French who had come of age during the German Occupation. First published in 1946 by Les Editions de Minuit, a press with its origins in the Underground...
The Universe in Your Hand-Christophe Galfard 2016-04-19 "If Ms. Frizzle were a physics student of Stephen Hawking, she might have written THE UNIVERSE IN YOUR HAND, a wild tour through the reaches of time and space, from the interior of a proton to the Big Bang to the rough suburbs of a black hole. It's friendly, excitable, erudite, and cosmic." —Jordan Ellenberg, New York Times besteselling author of How Not To Be Wrong Quantum physics, black holes, string theory, the Big Bang, dark matter, dark energy, parallel universes: even if we are interested in these fundamental concepts of our world, their language is the language of math. Which means that despite our best intentions of finally grasping, say, Einstein's Theory of General Relativity, most of us are quickly brought up short by a snarl of nasty equations or an incomprehensible graph. Christophe Galfard's mission in life is to spread modern scientific ideas to the general public in entertaining ways. Using his considerable skills as a brilliant theoretical physicist and successful young adult author, The Universe in Your Hand employs the immediacy of simple, direct language to show us, not explain to us, the theories that underpin everything we know about our universe. To understand what happens to a dying star, we are asked to picture ourselves floating in space in front of it. To get acquainted with the quantum world, we are shrunk to the size of an atom and then taken on a journey. Employing everyday similes and metaphors, addressing the reader directly, and writing stories rather than equations renders these astoundingly complex ideas in an immediate and visceral way. Utterly captivating and entirely unique, The Universe in Your Hand will find its place among other classics in the field.
Covariant Loop Quantum Gravity-Carlo Rovelli 2014-11-13 A comprehensible introduction to the most fascinating research in theoretical physics: advanced quantum gravity. Ideal for researchers and graduate students.
The Pope of Physics-Gino Segrè 2016-10-18 Enrico Fermi is unquestionably among the greats of the world's physicists, the most famous Italian scientist since Galileo. Called the Pope by his peers, he was regarded as infallible in his instincts and research. His discoveries changed our world; they led to weapons of mass destruction and conversely to life-saving medical interventions. This unassuming man struggled with issues relevant today, such as the threat of nuclear annihilation and the relationship of science to politics. Fleeing Fascism and anti-Semitism, Fermi became a leading figure in America's most secret project: building the atomic bomb. The last physicist who mastered all branches of the discipline, Fermi was a rare mixture of theorist and experimentalist. His rich legacy encompasses key advances in fields as diverse as comic rays, nuclear technology, and early computers. In their revealing book, The Pope of Physics, Gino Segré and Bettina Hoerlin bring this scientific visionary to life. An examination of the human dramas that touched Fermi's life as well as a thrilling history of scientific innovation in the twentieth century, this is the comprehensive biography that Fermi deserves.
Biocentrism-Robert Lanza 2009 Robert Lanza is one of the most respected scientists in the world a US News and World Report cover story called him a genius and a renegade thinker, even likening him to Einstein. Lanza has teamed with Bob Berman, the most widely read astronomer in the world, to produce Biocentrism, a revolutionary new view of the universe. Every now and then a simple yet radical idea shakes the very foundations of knowledge. The startling discovery that the world was not flat challenged and ultimately changed the way people perceived themselves and their relationship with the world. For most humans of the 15th century, the notion of Earth as ball of rock was nonsense. The whole of Western, natural philosophy is undergoing a sea change again, increasingly being forced upon us by the experimental findings of quantum theory, and at the same time, toward doubt and uncertainty in the physical explanations of the universes genesis and structure. Biocentrism completes this shift in worldview, turning the planet upside down again with the revolutionary view that life creates the universe instead of the other way around. In this paradigm, life is not an accidental byproduct of the laws of physics. Biocentrism takes the reader on a seemingly improbable but ultimately inescapable journey through a foreign universe our own from the viewpoints of an acclaimed biologist and a leading astronomer. Switching perspective from physics to biology unlocks the cages in which Western science has unwittingly managed to confine itself. Biocentrism will shatter the readers ideas of life--time and space, and even death. At the same time it will release us from the dull worldview of life being merely the activity of an admixture of carbon and a few other elements; it suggests the exhilarating possibility that life is fundamentally immortal. The 21st century is predicted to be the Century of Biology, a shift from the previous century dominated by physics. It seems fitting, then, to begin the century by turning the universe outside-in and unifying the foundations of science with a simple idea discovered by one of the leading life-scientists of our age. Biocentrism awakens in readers a new sense of possibility, and is full of so many shocking new perspectives that the reader will never see reality the same way again.
The Measure of the World-Denis Guedj 2001-09 A novel based on the 1792 attempt to measure the prime meridian follows a group of scientific pioneers sent by the revolutionary government of France to accomplish this important task.
Your Brain Is a Time Machine: The Neuroscience and Physics of Time-Dean Buonomano 2017-04-04 "Beautifully written, eloquently reasoned...Mr. Buonomano takes us off and running on an edifying scientific journey." —Carol Tavris, Wall Street Journal In Your Brain Is a Time Machine, leading neuroscientist Dean Buonomano embarks on an "immensely engaging" exploration of how time works inside the brain (Barbara Kiser, Nature). The human brain, he argues, is a complex system that not only tells time, but creates it; it constructs our sense of chronological movement and enables "mental time travel"—simulations of future and past events. These functions are essential not only to our daily lives but to the evolution of the human race: without the ability to anticipate the future, mankind would never have crafted tools or invented agriculture. This virtuosic work of popular science will lead you to a revelation as strange as it is true: your brain is, at its core, a time machine.
Myth and History in the Bible-Giovanni Garbini 2003-06-01 The Old Testament, and biblical scholarship itself, distinguishes between mythical and historical. This book argues that only historical thing in the Bible is the Bible itself, a superb product of Jewish thought. What is narrated in the Bible is only myth. But this myth about Israel's past was still built with fragments of history, or rather with written traditions that were different from those expressed in the actual text, and obviously more ancient. These essays follow in the spirit of his controversial History and Ideology in Ancient Israel, which combine detailed philological reseaerch, a wide knowledge of ancient Near Eastern literature and Biblical Archaeology--and a radical way of understanding what the biblical text is really telling us. This is an erudite and thought-provoking book, which should not be ignored by anyone who finds the origin of the Bible a fascinating and still largely unknown phenomenon.
Mr Tompkins in Paperback-George Gamow 2012-03-26 Since his first appearance over sixty years ago, Mr Tompkins has become known and loved by many thousands of readers as the bank clerk whose fantastic dreams and adventures lead him into a world inside the atom. George Gamow's classic provides a delightful explanation of the central concepts in modern physics, from atomic structure to relativity, and quantum theory to fusion and fission. Roger Penrose's foreword introduces Mr Tompkins to a new generation of readers and reviews his adventures in light of recent developments in physics.
The First Scientist-Carlo Rovelli 2011 Translated into English for the first time, an award-winning theoretical physicist discusses the theories of Anaximander, the sixth-century BC Greek philosopher, and examines the influence he had on scientific thinking in a historical and philosophical context.
This Explains Everything-John Brockman 2013-01-22 Drawn from the cutting-edge frontiers of science, This Explains Everything will revolutionize your understanding of the world. What is your favorite deep, elegant, or beautiful explanation? This is the question John Brockman, publisher of Edge.org ("The world's smartest website"—The Guardian), posed to the world's most influential minds. Flowing from the horizons of physics, economics, psychology, neuroscience, and more, This Explains Everything presents 150 of the most surprising and brilliant theories of the way of our minds, societies, and universe work. Jared Diamond on biological electricity • Nassim Nicholas Taleb on positive stress • Steven Pinker on the deep genetic roots of human conflict • Richard Dawkins on pattern recognition • Nobel Prize-winning physicist Frank Wilczek on simplicity • Lisa Randall on the Higgs mechanism • BRIAN Eno on the limits of intuition • Richard Thaler on the power of commitment • V. S. Ramachandran on the "neural code" of consciousness • Nobel Prize winner ERIC KANDEL on the power of psychotherapy • Mihaly Csikszentmihalyi on "Lord Acton's Dictum" • Lawrence M. Krauss on the unification of electricity and magnetism • plus contributions by Martin J. Rees • Kevin Kelly • Clay Shirky • Daniel C. Dennett • Sherry Turkle • Philip Zimbardo • Lee Smolin • Rebecca Newberger Goldstein • Seth Lloyd • Stewart Brand • George Dyson • Matt Ridley
A Brief History of Infinity-Paolo Zellini 2005 In A Brief History of Infinity, the infinite in all its forms - viewed from the perspective of mathematicians, philosophers, and theologians - is explored, as Zellini strives to explain this fundamental principle. What is the difference between trueand false infinity? How might we explain away the puzzle of Zeno's paradox? And how is the concept of infinity helping us as we wrestle with the fundamental uncertainties of the quantum world? Paolo Zellini shows that the concept of the infinite is a multifaceted one, and eloquently demonstrates the manner in which humanity has attempted to comprehend that concept for millenia.
General Relativity: The most beautiful of theories-Carlo Rovelli 2015-02-17 Generalising Newton's law of gravitation, general relativity is one of the pillars of modern physics. While applications in the beginning were restricted to isolated effects such as a proper understanding of Mercury's orbit, the second half of the twentieth century saw a massive development of applications. These include cosmology, gravitational waves, and even very practical results for satellite based positioning systems as well as different approaches to unite general relativity with another very successful branch of physics – quantum theory. On the occassion of general relativity's centennial, leading scientists in the different branches of gravitational research review the history and recent advances in the main fields of applications of the theory, which was referred to by Lev Landau as "the most beautiful of the existing physical theories". Contributions from: Andy C. Fabian, AnthonyL. Lasenby, Astrophysical black Holes Neil Ashby, GNSS and other applications of General Relativity Gene Byrd, Arthur Chernin, Pekka Teerikorpi, Mauri Vaaltonen,Observations of general Relativity at strong and weaks limits Ignazio Ciufolini, General Relativity and dragging of inertial frames Carlo Rovelli, The strange world of quantum spacetime
Quantum Mechanics and Experience-David Z. ALBERT 2009-06-30
Rosicrucian Enlightenment-F.A. Yates 2013-10-08 First Published in 1999. Routledge is an imprint of Taylor & Francis, an informa company.

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