

Reality Is Not What It Seems The Journey To Quantum Gravity

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[The Improbability Principle](#) - David J. Hand 2014-02-11

A well-known statistician presents his theory that extraordinary and rare events are actually commonplace and cites stories of two-time lottery winners and other bizarre coincidences to support his theory that unlikely events statistically must happen. 50,000 first printing.

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.

What is Time? What is Space? - Carlo Rovelli 2015

Helgoland - Carlo Rovelli 2021-03-25

The instant Sunday Times bestseller -- a beautiful story of rebellion and science 'Popular science has rarely been so good' Prospect 'A triumph. . . We are left in a world that is not disenchanted by science, but even more magical' Financial Times In June 1925, twenty-three-year-old Werner Heisenberg, suffering from hay fever, had retreated to the treeless, wind-battered island of Helgoland in the North Sea in order to think. Walking all night, by dawn he had wrestled with an idea that would transform the whole of science and our very conception of the world. In Helgoland Carlo Rovelli tells the story of the birth of quantum physics and its bright young founders who were to become some of the most famous Nobel winners in science. It is a celebration of youthful rebellion and intellectual revolution. An invitation to a magical place. Here Rovelli illuminates competing interpretations of this science and offers his own original view, describing the world we touch as a fabric woven by relations. Where we, as every other thing around us, exist in our interactions with one another, in a never-ending game of mirrors. A dazzling work from a celebrated scientist and master storyteller, Helgoland transports us to dizzying heights, reminding us of the many pleasures of the life of the mind. Translated by Erica Segre and Simon Carnell Chosen as a Book of the Year by The Times, Financial Times, Sunday Times, Guardian and Prospect

The Case Against Reality: Why Evolution Hid the Truth from Our Eyes - Donald Hoffman 2019-08-13

Can we trust our senses to tell us the truth? Challenging leading scientific theories that claim that our senses report back objective reality, cognitive scientist Donald Hoffman argues that while we should take our perceptions seriously, we should not take them literally. How can it be possible that the world we see is not objective reality? And how can our senses be useful if they are not communicating the truth? Hoffman grapples with these questions and more over the course of this eye-opening work. Ever since Homo sapiens has walked the earth, natural selection has favored perception that hides the truth and guides us toward useful action, shaping our senses to keep us alive and reproducing. We observe a speeding car and do not walk in front of it; we see mold growing on bread and do not eat it. These impressions, though, are not objective reality. Just like a file icon on a desktop screen is a useful symbol rather than a genuine representation of what a computer file looks like, the objects we see every day are merely icons, allowing us to navigate the world safely and with ease. The real-world implications for this discovery are huge. From examining why fashion designers create clothes that give the illusion of a more "attractive" body shape to studying how companies use color to elicit specific emotions in consumers, and even dismantling the very notion that spacetime is objective reality, *The Case Against Reality* dares us to question everything we thought we knew about the world we see.

[The Order of Time](#) - Carlo Rovelli 2018-05-08

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*, *Reality Is Not What It Seems*, and *Helgoland*, 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.

Dark Matter and the Dinosaurs - Lisa Randall 2015-10-27

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

Reality is Not What it Seems by Carlo Rovelli (Summary) - QuickRead

Do you want more free books like this? Download our app for free at <https://www.QuickRead.com/App> and get access to hundreds of free book and audiobook summaries. Take a journey through history that leads to today's theory of quantum gravity and the modern physicist's view of the universe. Do time and space exist? What about reality, does it exist? These are the questions that theoretical physicist Carlo Rovelli has spent his life exploring. Beginning with the scholars of ancient Greece, Rovelli takes us on a journey throughout history and shows us how our understanding of reality has changed over time. Digging into the discoveries and theories made by Democritus, Isaac Newton, Albert Einstein, and even his own work in quantum gravity, Rovelli seeks to unify quantum mechanics and general relativity. Through *Reality is Not What it Seems*, you'll explore a world where space is made up of tiny grains, where time disappears, and where a large portion of the universe has yet to be discovered.

Decoding Reality - Vlatko Vedral 2012-02-23

For a physicist, all the world is information. The Universe and its workings are the ebb and flow of information. We are all transient patterns of information, passing on the recipe for our basic forms to future generations using a four-letter digital code called DNA. In this engaging and mind-stretching account, Vlatko Vedral considers some of the deepest questions about the Universe and considers the implications of interpreting it in terms of information. He explains the nature of

information, the idea of entropy, and the roots of this thinking in thermodynamics. He describes the bizarre effects of quantum behaviour — effects such as 'entanglement', which Einstein called 'spooky action at a distance', and explores cutting edge work on harnessing quantum effects in hyperfast quantum computers, and how recent evidence suggests that the weirdness of the quantum world, once thought limited to the tiniest scales, may reach into the macro world. Vedral finishes by considering the answer to the ultimate question: where did all of the information in the Universe come from? The answers he considers are exhilarating, drawing upon the work of distinguished physicist John Wheeler. The ideas challenge our concept of the nature of particles, of time, of determinism, and of reality itself. This edition includes a new foreword from the author, reflecting on changes in the world of quantum information since first publication. Oxford Landmark Science books are 'must-read' classics of modern science writing which have crystallized big ideas, and shaped the way we think.

Covariant Loop Quantum Gravity - Carlo Rovelli 2015

A comprehensible introduction to the most fascinating research in theoretical physics: advanced quantum gravity. Ideal for researchers and graduate students.

Reality Is Broken - Jane McGonigal 2011-01-20

"McGonigal is a clear, methodical writer, and her ideas are well argued. Assertions are backed by countless psychological studies." —The Boston Globe "Powerful and provocative . . . McGonigal makes a persuasive case that games have a lot to teach us about how to make our lives, and the world, better." —San Jose Mercury News "Jane McGonigal's insights have the elegant, compact, deadly simplicity of plutonium, and the same explosive force." —Cory Doctorow, author of *Little Brother* A visionary game designer reveals how we can harness the power of games to boost global happiness. With 174 million gamers in the United States alone, we now live in a world where every generation will be a gamer generation. But why, Jane McGonigal asks, should games be used for escapist entertainment alone? In this groundbreaking book, she shows how we can leverage the power of games to fix what is wrong with the real world—from social problems like depression and obesity to global issues like poverty and climate change—and introduces us to cutting-edge games that are already changing the business, education, and nonprofit worlds. Written for gamers and non-gamers alike, *Reality Is Broken* shows that the future will belong to those who can understand, design, and play games. Jane McGonigal is also the author of *SuperBetter: A Revolutionary Approach to Getting Stronger, Happier, Braver and More Resilient*.

The Explorer Gene - Tom Cheshire 2013-12-03

The remarkable account of an extraordinary family of explorers who spurred innovation and accomplished incredible feats—even when the popular consensus was against them. On May 27, 1931, Auguste Piccard became the first human to enter the stratosphere, flying an experimental balloon he invented himself. Thirty years later, his son Jacques went to the bottom of the earth, descending to the Mariana Trench in a submarine built by him and Auguste. To this day, no one has gone deeper. Bertrand, the third generation, was the first person to fly around the world non-stop in a balloon. Now, he's building his own craft: a solar-powered plane to circumnavigate the globe. In *The Explorer Gene*, Tom Cheshire asks how three generations of one family achieved such extraordinary feats, often with the consensus against them. None of the Piccards set out to explore: Auguste was a physicist, Jacques an economist and Bertrand a psychiatrist. Was it fate, a famous family name — or their explorer gene?

Through Two Doors at Once - Anil Ananthaswamy 2019-06-11

The intellectual adventure story of the "double-slit" experiment, showing how a sunbeam split into two paths first challenged our understanding of light and then the nature of reality itself—and continues to almost two hundred years later. Many of science's greatest minds have grappled with the simple yet elusive "double-slit" experiment. Thomas Young devised it in the early 1800s to show that light behaves like a wave, and in doing so opposed Isaac Newton. Nearly a century later, Albert Einstein showed that light comes in quanta, or particles, and the experiment became key to a fierce debate between Einstein and Niels Bohr over the nature of reality. Richard Feynman held that the double slit embodies the central mystery of the quantum world. Decade after decade, hypothesis after hypothesis, scientists have returned to this ingenious experiment to help them answer deeper and deeper questions about the fabric of the universe. How can a single particle behave both like a particle and a wave? Does a particle exist before we look at it, or does the very act of looking create reality? Are there hidden aspects to

reality missing from the orthodox view of quantum physics? Is there a place where the quantum world ends and the familiar classical world of our daily lives begins, and if so, can we find it? And if there's no such place, then does the universe split into two each time a particle goes through the double slit? With his extraordinarily gifted eloquence, Anil Ananthaswamy travels around the world and through history, down to the smallest scales of physical reality we have yet fathomed. *Through Two Doors at Once* is the most fantastic voyage you can take.

The Reality of Time Flow - Richard T. W. Arthur 2019-04-25

It is commonly held that there is no place for the 'now' in physics, and also that the passing of time is something subjective, having to do with the way reality is experienced but not with the way reality is. Indeed, the majority of modern theoretical physicists and philosophers of physics contend that the passing of time is incompatible with modern physical theory, and excluded in a fundamental description of physical reality. This book provides a forceful rebuttal of such claims. In successive chapters the author explains the historical precedents of the modern opposition to time flow, giving careful expositions of matters relevant to becoming in classical physics, the special and general theories of relativity, and quantum theory, without presupposing prior expertise in these subjects. Analysing the arguments of thinkers ranging from Aristotle, Russell, and Bergson to the proponents of quantum gravity, he contends that the passage of time, understood as a local becoming of events out of those in their past at varying rates, is not only compatible with the theories of modern physics, but implicit in them.

Farewell to Reality - Jim Baggott 2021-11-15

From acclaimed science author Jim Baggott, a lively, provocative, and "intellectually gratifying" critique of modern theoretical physics (*The Economist*). In this stunning new volume, Jim Baggott argues that there is no observational or experimental evidence for many of the ideas of modern theoretical physics: super-symmetric particles, superstrings, the multiverse, the holographic principle, or the anthropic cosmological principle. These theories are not only untrue, it is not even science. It is fairy-tale physics: fantastical, bizarre and often outrageous, perhaps even confidence-trickery. This book provides a much-needed antidote. Informed, comprehensive, and balanced, it offers lay readers the latest ideas about the nature of physical reality while clearly distinguishing between fact and fantasy. With its engaging portraits of many central figures of modern physics, including Paul Davies, John Barrow, Brian Greene, Stephen Hawking, and Leonard Susskind, it promises to be essential reading for all readers interested in what we know and don't know about the nature of the universe and reality itself.

Spooky Action at a Distance - George Musser 2015-11-03

What is space? It isn't a question that most of us normally stop to ask. Space is the venue of physics; it's where things exist, where they move and take shape. Yet over the past few decades, physicists have discovered a phenomenon that operates outside the confines of space and time. The phenomenon—the ability of one particle to affect another instantly across the vastness of space—appears to be almost magical. Einstein grappled with this oddity and couldn't quite resolve it, describing it as "spooky action at a distance." But this strange occurrence has direct connections to black holes, particle collisions, and even the workings of gravity. If space isn't what we thought it was, then what is it? In *Spooky Action at a Distance*, George Musser sets out to answer that question, offering a provocative exploration of nonlocality and a celebration of the scientists who are trying to understand it. Musser guides us on an epic journey of scientific discovery into the lives of experimental physicists observing particles acting in tandem, astronomers discovering galaxies that look statistically identical, and cosmologists hoping to unravel the paradoxes surrounding the big bang. Their conclusions challenge our understanding not only of space and time but of the origins of the universe—and their insights are spurring profound technological innovation and suggesting a new grand unified theory of physics.

The Road to Reality - Roger Penrose 2021-06-09

****WINNER OF THE 2020 NOBEL PRIZE IN PHYSICS**** *The Road to Reality* is the most important and ambitious work of science for a generation. It provides nothing less than a comprehensive account of the physical universe and the essentials of its underlying mathematical theory. It assumes no particular specialist knowledge on the part of the reader, so that, for example, the early chapters give us the vital mathematical background to the physical theories explored later in the book. Roger Penrose's purpose is to describe as clearly as possible our present understanding of the universe and to convey a feeling for its deep beauty and philosophical implications, as well as its intricate logical

interconnections. The Road to Reality is rarely less than challenging, but the book is leavened by vivid descriptive passages, as well as hundreds of hand-drawn diagrams. In a single work of colossal scope one of the world's greatest scientists has given us a complete and unrivalled guide to the glories of the universe that we all inhabit. 'Roger Penrose is the most important physicist to work in relativity theory except for Einstein. He is one of the very few people I've met in my life who, without reservation, I call a genius' Lee Smolin

General Relativity: The Essentials - Carlo Rovelli 2021-08-31

In this short book, renowned theoretical physicist and author Carlo Rovelli gives a straightforward introduction to Einstein's General Relativity, our current theory of gravitation. Focusing on conceptual clarity, he derives all the basic results in the simplest way, taking care to explain the physical, philosophical and mathematical ideas at the heart of "the most beautiful of all scientific theories". Some of the main applications of General Relativity are also explored, for example, black holes, gravitational waves and cosmology, and the book concludes with a brief introduction to quantum gravity. Written by an author well known for the clarity of his presentation of scientific ideas, this concise book will appeal to university students looking to improve their understanding of the principal concepts, as well as science-literate readers who are curious about the real theory of General Relativity, at a level beyond a popular science treatment.

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.

The Grand Biocentric Design - Robert Lanza 2020-11-17

What if life isn't just a part of the universe . . . what if it determines the very structure of the universe itself? The theory that blew your mind in Biocentrism and Beyond Biocentrism is back, with brand-new research revealing the startling truth about our existence. What is consciousness? Why are we here? Where did it all come from—the laws of nature, the stars, the universe? Humans have been asking these questions forever, but science hasn't succeeded in providing many answers—until now. In *The Grand Biocentric Design*, Robert Lanza, one of Time Magazine's "100 Most Influential People," is joined by theoretical physicist Matej Pavšič and astronomer Bob Berman to shed light on the big picture that has long eluded philosophers and scientists alike. This engaging, mind-stretching exposition of how the history of physics has led us to Biocentrism—the idea that life creates reality—takes readers on a step-by-step adventure into the great science breakthroughs of the past centuries, from Newton to the weirdness of quantum theory, culminating in recent revelations that will challenge everything you think you know about our role in the universe. This book offers the most complete explanation of the science behind Biocentrism to date, delving into the origins of the memorable principles introduced in previous books in this series, as well as introducing new principles that complete the theory. The authors dive deep into topics including consciousness, time, and the evidence that our observations—or even knowledge in our minds—can affect how physical objects behave. *The Grand Biocentric Design* is a one-of-a-kind, groundbreaking explanation of how the universe works, and an exploration of the science behind the astounding fact that time, space, and reality itself, all ultimately depend upon us.

White Noise - Don DeLillo 1999-06-01

A brilliant satire of mass culture and the numbing effects of technology, *White Noise* tells the story of Jack Gladney, a teacher of Hitler studies at a liberal arts college in Middle America. Jack and his fourth wife, Babbette, bound by their love, fear of death, and four ultramodern offspring, navigate the rocky passages of family life to the background babble of brand-name consumerism. Then a lethal black chemical cloud, unleashed by an industrial accident, floats over their lives, an "airborne toxic event" that is a more urgent and visible version of the white noise engulfing the Gladneys—the radio transmissions, sirens, microwaves,

and TV murmurings that constitute the music of American magic and dread.

Discworld and Philosophy - Nicolas Michaud 2016-08-09

In *Discworld*, unlike our own frustrating *Roundworld*, everything makes sense. The world is held up by elephants standing on the back of a swimming turtle who knows where he's going, the sun goes round the world every day, so it doesn't have to be very hot, and things always happen because someone intends them to happen. Millions of fans are addicted to Pratchett's *Discworld*, and the interest has only intensified since Pratchett's recent death and the release of his final *Discworld* novel, *The Shepherd's Crown*, in September 2015. The philosophical riches of *Discworld* are inexhaustible, yet the brave explorers of *Discworld and Philosophy* cover a lot of ground. From discussion of Moist von Lipwig's con artistry showing the essential con of the financial system, to the examination of everyone's favorite *Discworld* character, the murderous luggage, to the lawless Mac Nac Feegles and what they tell us about civil government, to the character Death as he appears in several *Discworld* novels, *Discworld and Philosophy* gives us an in-depth treatment of Pratchett's magical universe. Other chapters look at the power of *Discworld's* witches, the moral viewpoint of the golems, how William de Worde's newspaper illuminates the issue of censorship, how fate and luck interact to shape our lives, and why the more simple and straightforward *Discworld* characters are so much better at seeing the truth than those with enormous intellects but little common sense.

Helgoland - Carlo Rovelli 2021-05-25

Named a Best Book of 2021 by the Financial Times and a Best Science Book of 2021 by The Guardian "Rovelli is a genius and an amazing communicator... This is the place where science comes to life." —Neil Gaiman "One of the warmest, most elegant and most lucid interpreters to the laity of the dazzling enigmas of his discipline...[a] momentous book" —John Banville, The Wall Street Journal A startling new look at quantum theory, from the New York Times bestselling author of *Seven Brief Lessons on Physics*, *The Order of Time*, and *Anaximander*. One of the world's most renowned theoretical physicists, Carlo Rovelli has entranced millions of readers with his singular perspective on the cosmos. In *Helgoland*, he examines the enduring enigma of quantum theory. The quantum world Rovelli describes is as beautiful as it is unnerving. Helgoland is a treeless island in the North Sea where the twenty-three-year-old Werner Heisenberg made the crucial breakthrough for the creation of quantum mechanics, setting off a century of scientific revolution. Full of alarming ideas (ghost waves, distant objects that seem to be magically connected, cats that appear both dead and alive), quantum physics has led to countless discoveries and technological advancements. Today our understanding of the world is based on this theory, yet it is still profoundly mysterious. As scientists and philosophers continue to fiercely debate the meaning of the theory, Rovelli argues that its most unsettling contradictions can be explained by seeing the world as fundamentally made of relationships rather than substances. We and everything around us exist only in our interactions with one another. This bold idea suggests new directions for thinking about the structure of reality and even the nature of consciousness. Rovelli makes learning about quantum mechanics an almost psychedelic experience. Shifting our perspective once again, he takes us on a riveting journey through the universe so we can better comprehend our place in it.

There Are Places in the World Where Rules Are Less Important Than Kindness - Carlo Rovelli 2022-05-10

A delightful intellectual feast from the bestselling author of *Seven Brief Lessons on Physics* and *The Order of Time* One of the world's most prominent physicists and fearless free spirit, Carlo Rovelli is also a masterful storyteller. His bestselling books have introduced millions of readers to the wonders of modern physics and his singular perspective on the cosmos. This new collection of essays reveals a curious intellect always on the move. Rovelli invites us on an accessible and enlightening voyage through science, literature, philosophy, and politics. Written with his usual clarity and wit, this journey ranges widely across time and space: from Newton's alchemy to Einstein's mistakes, from Nabokov's lepidopterology to Dante's cosmology, from mind-altering psychedelic substances to the meaning of atheism, from the future of physics to the power of uncertainty. Charming, pithy, and elegant, this book is the perfect gateway to the universe of one of the most influential minds of our age.

Reality Is Not What It Seems - Carlo Rovelli 2018-01-23

"The man who makes physics sexy . . . the scientist they're calling the next Stephen Hawking." —The Times Magazine From the New York

Times-bestselling author of *Seven Brief Lessons on Physics*, *The Order of Time*, and the forthcoming *Helgoland*, a closer look at the mind-bending nature of the universe. 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*. Rovelli invites us to imagine a marvelous world where space breaks up into tiny grains, time disappears at the smallest scales, and black holes are waiting to explode—a vast universe still largely undiscovered.

We Have No Idea - Jorge Cham 2018-05-08

Prepare to learn everything we still don't know about our strange and mysterious universe. Humanity's understanding of the physical world is full of gaps. Not tiny little gaps you can safely ignore —there are huge yawning voids in our basic notions of how the world works. PHD Comics creator Jorge Cham and particle physicist Daniel Whiteson have teamed up to explore everything we don't know about the universe: the enormous holes in our knowledge of the cosmos. Armed with their popular infographics, cartoons, and unusually entertaining and lucid explanations of science, they give us the best answers currently available for a lot of questions that are still perplexing scientists, including: * Why does the universe have a speed limit? * Why aren't we all made of antimatter? * What (or who) is attacking Earth with tiny, superfast particles? * What is dark matter, and why does it keep ignoring us? It turns out the universe is full of weird things that don't make any sense. But Cham and Whiteson make a compelling case that the questions we can't answer are as interesting as the ones we can. This fully illustrated introduction to the biggest mysteries in physics also helpfully demystifies many complicated things we do know about, from quarks and neutrinos to gravitational waves and exploding black holes. With equal doses of humor and delight, Cham and Whiteson invite us to see the universe as a possibly boundless expanse of uncharted territory that's still ours to explore.

The Kingdom of Speech - Tom Wolfe 2016-08-30

The maestro storyteller and reporter provocatively argues that what we think we know about speech and human evolution is wrong. "A whooping, joy-filled and hyperbolic raid on, of all things, the theory of evolution." (Dwight Garner, *New York Times*) Tom Wolfe, whose legend began in journalism, takes us on an eye-opening journey that is sure to arouse widespread debate. *THE KINGDOM OF SPEECH* is a captivating, paradigm-shifting argument that speech--not evolution--is responsible for humanity's complex societies and achievements. From Alfred Russel Wallace, the Englishman who beat Darwin to the theory of natural selection but later renounced it, and through the controversial work of modern-day anthropologist Daniel Everett, who defies the current wisdom that language is hard-wired in humans, Wolfe examines the solemn, long-faced, laugh-out-loud zig-zags of Darwinism, old and Neo, and finds it irrelevant here in the Kingdom of Speech.

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*, *Reality Is Not What It Seems*, *Helgoland*, and *Anaximander* 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.

Information—Consciousness—Reality - James B. Glattfelder 2019-04-10

This open access book chronicles the rise of a new scientific paradigm offering novel insights into the age-old enigmas of existence. Over 300 years ago, the human mind discovered the machine code of reality: mathematics. By utilizing abstract thought systems, humans began to decode the workings of the cosmos. From this understanding, the current scientific paradigm emerged, ultimately discovering the gift of technology. Today, however, our island of knowledge is surrounded by ever longer shores of ignorance. Science appears to have hit a dead end when confronted with the nature of reality and consciousness. In this fascinating and accessible volume, James Glattfelder explores a radical paradigm shift uncovering the ontology of reality. It is found to be information-theoretic and participatory, yielding a computational and programmable universe.

Loop Quantum Gravity For Everyone - Rodolfo Gambini 2020-01-08

'In this remarkably well-written text, the authors introduce readers gently to the conceptual bricks of LQG without using any mathematics (quite an achievement). The debate started with the discovery that the space-time geometry of general relativity can be written in terms of the electromagnetic field. This led to intersecting graphs called loops. Now known as spin networks, they are the foundations of LQG. This slender volume discusses applications of LQG to black holes and cosmology and introduces the notion of spin foam, acknowledging that as yet the theory, though elegant, has no experimental confirmation ... This book offers a fascinating introduction to an esoteric realm otherwise accessible to only a fortunate few. Summing Up: Highly recommended. Upper-division undergraduates. Graduate students and faculty researchers.' CHOICE Choice Outstanding Academic Title for 2020 Loop quantum gravity is one of the main contenders to unify Einstein's general theory of relativity and quantum mechanics, therefore providing a quantum theory of gravity. If these words do not mean much to you, do not worry, we will define them in simple terms. This book describes loops quantum gravity and its applications to cosmology, black holes and spin foams without using formulas. It is concise and has a light style that makes for easy reading yet covering many of the cutting-edge developments in the field. It also addresses some of the controversies that surround these topics as they are incomplete science.

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* and *Helgoland* "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 Reality? - Ervin Laszlo 2016-10-04

Ervin Laszlo's tour de force, *What is Reality?*, is the product of a half-century of deep contemplation and cutting-edge scholarship. Addressing many of the paradoxes that have confounded modern science over the years, it offers nothing less than a new paradigm of reality, one in which the cosmos is a seamless whole, informed by a single, coherent consciousness manifest in us all. Bringing together science, philosophy, and metaphysics, Laszlo takes aim at accepted wisdom, such as the dichotomies of mind and body, spirit and matter, being and nonbeing, to show how we are all part of an infinite cycle of existence unfolding in spacetime and beyond. Augmented by insightful commentary from a dozen scholars and thinkers, along with a foreword by Deepak Chopra and an introduction by Stanislav Grof, *What is Reality?* offers a fresh and liberating understanding of the meaning and purpose of existence.

Quantum Reality - Nick Herbert 2011-09-21

This clearly explained layman's introduction to quantum physics is an accessible excursion into metaphysics and the meaning of reality. Herbert exposes the quantum world and the scientific and philosophical controversy about its interpretation.

The Possibility Principle - Mel Schwartz 2017-08-31

How would you like to experience your life? It's an intriguing question,

and yet we've been conditioned to believe our life visions and goals are often unattainable—until now. With *The Possibility Principle*, psychotherapist Mel Schwartz offers a revolutionary approach to living the life we choose. Though science has vastly expanded our knowledge, it has also led us to adopt a worldview where we see ourselves as insignificant specks living in a mechanical universe. Now, insights from quantum physics reveal that our universe is, in fact, a vibrantly intelligent reality and that each of us plays a vital role in shaping it. In this groundbreaking book, Schwartz shows us how to integrate this new quantum worldview into our everyday lives, allowing us to transcend our limitations and open to infinite possibilities. *The Possibility Principle* reveals how we can apply the three core tenets of quantum physics—inseparability, uncertainty, and potentiality—to live the life we choose, free from the wounds of our past and the constraints of our old beliefs. You can learn to: Develop a mastery of your thinking as you free yourself from the replication of old thought patterns Utilize the concept of wave collapse to realize that you are not imprisoned by your genes, brain chemistry, or past traumas Overcome anxiety and depression through a shift of mind Thrive in resilient relationships and develop powerful communication skills that foster empowerment and intimate connection Embrace uncertainty to ride the waves of personal change

The Beginning of Infinity - David Deutsch 2011-03-31

A bold and all-embracing exploration of the nature and progress of knowledge from one of today's great thinkers. Throughout history, mankind has struggled to understand life's mysteries, from the mundane to the seemingly miraculous. In this important new book, David Deutsch, an award-winning pioneer in the field of quantum computation, argues that explanations have a fundamental place in the universe. They have unlimited scope and power to cause change, and the quest to improve them is the basic regulating principle not only of science but of all successful human endeavor. This stream of ever improving explanations has infinite reach, according to Deutsch: we are subject only to the laws of physics, and they impose no upper boundary to what we can eventually understand, control, and achieve. In his previous book, *The Fabric of Reality*, Deutsch describe the four deepest strands of existing knowledge—the theories of evolution, quantum physics, knowledge, and computation—arguing jointly they reveal a unified fabric of reality. In this new book, he applies that worldview to a wide range of issues and unsolved problems, from creativity and free will to the origin and future of the human species. Filled with startling new conclusions about human choice, optimism, scientific explanation, and the evolution of culture, *The Beginning of Infinity* is a groundbreaking book that will become a classic of its kind.

THE BOOK THAT HAPPENED - Is Reality but Sheer Coincidence? - Pergel Attila 2021-04-09

This is the book of awkward questions. It doesn't promise easy entertainment—it provides understanding at a level that we never reached in school. Do the past, present, and future exist? What are miracles made of? Why can't science define what time truly is? Is it that simple to understand infinity? You will find a multitude of logical deductions and thought experiments in this book. You will realize how astonishingly wonderful our reality is. This book aims to provide an understanding of the universe. It will help you understand time and space, dimensions, infinity, and coincidence. Did the universe simply happen? By sheer chance? And the people in it? Are we just a product of coincidence? Or were we called to existence by some higher power? The answers will be provided by you—the reader. The book brings up a series of questions that spark up thoughts, inspire, provoke, and point out contradictions and paradoxes. It doesn't try to persuade you. It doesn't shove the author's truth down your throat. It shows things. It reveals things. It shows that one inch is extremely far from being an exact distance measurement. It reminds you that the speed of an arrow shot from a truck, equals the truck's and its own speed, whereas the same logic doesn't work with a ray of light. The book takes the scientific definitions of time, space, geometric points, and line segments - and shows you their incompetence. You'll see how ungrounded of a scientific base we have, and yet we build our daily lives on it. Can you define the present time? What really is the present? Just think about it: you started reading this blurb half a minute ago: in the past. You will pay for the book in five minutes: in the future. Right? And now? Are you reading at home, having bought the book two hours ago? Only one thing is for sure: you are a winner if you can talk about reading *The Book that Happened* in the past tense. Come along now. Start the adventure with Attila Pergel and get your ticket for this fantastic journey that will send you flying from the atomic nucleus to the edge of the universe!

Summary of Reality Is Not What It Seems - [Review Keypoints and Takeaways] - PenZen Summaries 2022-11-28

The summary of *Reality Is Not What It Seems - The Journey to Quantum Gravity* presented here include a short review of the book at the start followed by quick overview of main points and a list of important takeaways at the end of the summary. The Summary of *The Real World Is Not What It Appears To Be*. provides a concise summary of the long and winding road that has been travelled by modern science, beginning with the cosmological observations of ancient Greece and ending with the complex theories of quantum mechanics. These ideas provide an easily digestible perspective on the many twists and turns that have occurred in the history of modern physics, as well as an overview of the difficult questions that physicists continue to struggle with today. *Reality Is Not What It Seems* summary includes the key points and important takeaways from the book *Reality Is Not What It Seems* by Carlo Rovelli. Disclaimer: 1. This summary is meant to preview and not to substitute the original book. 2. We recommend, for in-depth study purchase the excellent original book. 3. In this summary key points are rewritten and recreated and no part/text is directly taken or copied from original book. 4. If original author/publisher wants us to remove this summary, please contact us at support@mocktime.com.

The Love Hypothesis - Ali Hazelwood 2021-09-14

The Instant New York Times Bestseller and TikTok Sensation! As seen on THE VIEW! A BuzzFeed Best Summer Read of 2021 When a fake relationship between scientists meets the irresistible force of attraction, it throws one woman's carefully calculated theories on love into chaos. As a third-year Ph.D. candidate, Olive Smith doesn't believe in lasting romantic relationships—but her best friend does, and that's what got her into this situation. Convincing Anh that Olive is dating and well on her way to a happily ever after was always going to take more than hand-wavy Jedi mind tricks: Scientists require proof. So, like any self-respecting biologist, Olive panics and kisses the first man she sees. That man is none other than Adam Carlsen, a young hotshot professor—and well-known ass. Which is why Olive is positively floored when Stanford's reigning lab tyrant agrees to keep her charade a secret and be her fake boyfriend. But when a big science conference goes haywire, putting Olive's career on the Bunsen burner, Adam surprises her again with his unyielding support and even more unyielding...six-pack abs. Suddenly their little experiment feels dangerously close to combustion. And Olive discovers that the only thing more complicated than a hypothesis on love is putting her own heart under the microscope.

Science in the Soul - Richard Dawkins 2018-06-12

NEW YORK TIMES BESTSELLER • The legendary biologist and bestselling author mounts a timely and passionate defense of science and clear thinking with this career-spanning collection of essays, including twenty pieces published in the United States for the first time. For decades, Richard Dawkins has been a brilliant scientific communicator, consistently illuminating the wonders of nature and attacking faulty logic. *Science in the Soul* brings together forty-two essays, polemics, and paeans—all written with Dawkins's characteristic erudition, remorseless wit, and unjaded awe of the natural world. Though it spans three decades, this book couldn't be more timely or more urgent. Elected officials have opened the floodgates to prejudices that have for half a century been unacceptable or at least undercover. In a passionate introduction, Dawkins calls on us to insist that reason take center stage and that gut feelings, even when they don't represent the stirred dark waters of xenophobia, misogyny, or other blind prejudice, should stay out of the voting booth. And in the essays themselves, newly annotated by the author, he investigates a number of issues, including the importance of empirical evidence, and decries bad science, religion in the schools, and climate-change deniers. Dawkins has equal ardor for "the sacred truth of nature" and renders here with typical virtuosity the glories and complexities of the natural world. Woven into an exploration of the vastness of geological time, for instance, is the peculiar history of the giant tortoises and the sea turtles—whose journeys between water and land tell us a deeper story about evolution. At this moment, when so many highly placed people still question the fact of evolution, Dawkins asks what Darwin would make of his own legacy—"a mixture of exhilaration and exasperation"—and celebrates science as possessing many of religion's virtues—"explanation, consolation, and uplift"—without its detriments of superstition and prejudice. In a world grown irrational and hostile to facts, *Science in the Soul* is an essential collection by an indispensable author. Praise for *Science in the Soul* "Compelling . . . rendered in gloriously spiky and opinionated prose . . . [Dawkins is] one of the great science popularizers of the last half-

century.”—The Christian Science Monitor “Dawkins is a ferocious polemicist, a defender of reason and enemy of superstition.”—John Horgan, Scientific American
The Fabric of Reality - David Deutsch 2011-04-14

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