Einstein John Gribbin

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The Matter Myth
Harvard University Press
Erwin Schrödinger was an Austrian

physicist famous for his contribution to quantum physics. He won the Nobel Prize in 1933 and is best known for his thought experiment of a cat in a box, both alive and dead at the same time, which revealed the seemingly paradoxical nature of quantum mechanics. Schrödinger was working at one of the most fertile and creative moments in the whole history of science. By the time he started university in 1906, Einstein had already published his revolutionary papers on relativity. Now the baton of scientific progress was being passed to a new generation: Werner Heisenberg, Paul Dirac, Niels Bohr, and of course, Schrödinger himself. In this riveting biography John Gribbin takes us into the heart of the quantum revolution. He tells the story of Schrödinger's surprisingly colourful life (he arrived for a position at Oxford University with both his wife and mistress). And with his trademark accessible style

and popular touch, he explains the fascinating world of quantum mechanics, which underpins all of modern science.

Einstein Turtleback

In a book that is both biography and the most exciting form of history, here are eighteen years in the life of a man, Albert Einstein, and a city, Berlin, that were in many ways the defining years of the twentieth century. Einstein in Berlin In the spring of 1913 two of the giants of modern science traveled to Zurich. Their mission: to offer the most prestigious position in the very center of European scientific life to a man who had just six years before been a mere patent clerk. Albert Einstein accepted, arriving in Berlin in March 1914 to take up his new post. In December 1932 he left Berlin forever. “Take a good look,” he said to his wife as they walked away from their house. “You will never see it again.” In between, Einstein’s Berlin years capture in microcosm the odyssey of the twentieth century. It is a century that opens with extravagant hopes--and climaxes in unparalleled calamity. These are tumultuous times, seen through the life of one man who is at once witness to and architect of his day--and ours. He is present at the events that will shape the journey from the commencement of the Great War to the rumblings of the next one. We begin with the eminent scientist, already widely recognized for his special theory of relativity. His personal life is in turmoil, with his marriage collapsing, an

affair under way. Within two years of his arrival in Berlin he makes one of the landmark discoveries of all time: a new theory of gravity--and before long is transformed into the first international pop star of science. He flourishes during a war he hates, and serves as an instrument of reconciliation in the early months of the peace; he becomes first a symbol of the hope of reason, then a focus for the rage and madness of the right. And throughout these years Berlin is an equal character, with its astonishing eruption of revolutionary pathways in art and architecture, in music, theater, and literature. Its wild street life and sexual excesses are notorious. But with the debacle of the depression and Hitler ' s growing power, Berlin will be transformed, until by the end of 1932 it is no longer a safe home for Einstein. Once a hero, now vilified not only as the perpetrator of " Jewish physics " but as the preeminent symbol of all that the Nazis loathe, he knows it is time to leave.

The Essential Einstein Icon Books

A wonderfully readable account of scientific development over the past five hundred years, focusing on the lives and achievements of individual scientists, by the bestselling author of In Search of Schrödinger ' s Cat In this ambitious new book, John Gribbin tells the stories of the people who have made science, and of the times in which they lived and worked. He begins with Copernicus, during the Renaissance, when science replaced mysticism as a means of explaining the workings of

the world, and he continues through the centuries, creating an unbroken genealogy of not only the greatest but also the more obscure names of Western science, a dot-to-dot line linking amateur to genius, and accidental discovery to brilliant deduction. By focusing on the scientists themselves, Gribbin has written an anecdotal narrative enlivened with stories of personal drama, success and failure. A bestselling science writer with an international reputation, Gribbin is among the few authors who could even attempt a work of this magnitude. Praised as "a sequence of witty, information-packed tales" and "a terrific read" by The Times upon its recent British publication, The Scientists breathes new life into such venerable icons as Galileo, Isaac Newton, Albert Einstein and Linus Pauling, as well as lesser lights whose stories have been undeservedly neglected. Filled with pioneers, visionaries, eccentrics and madmen, this is the history of science as it has never been told before.

In Search of the Multiverse

Constable

"John Gribbin tells the stories of the people who have made science, and of the times in which they lived and worked. He begins with Copernicus, during the Renaissance, when science replaced mysticism as a means of explaining the workings of the world, and he continues through the centuries, creating an unbroken genealogy of not only the greatest but also the more obscure names of Western science, a dot-to-dot line linking amateur to genius, and accidental discovery to brilliant

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description.

Richard Feynman **Simon and Schuster**

Drawing on sources that have only emerged or become accessible in recent years, this in-depth biography establishes anew Einstein's complexity. Folsing also tries to reconstruct the physicist's thoughts in the context of contemporary research

Get a Grip on Physics Back Bay Books

Einstein's steadfast refusal to accept certain aspects of quantum theory was rooted in his insistence that physics has to be about reality. Accordingly, he once derided as "spooky action at a distance" the notion that two elementary particles far removed from each other could nonetheless influence each other's properties—a hypothetical phenomenon his fellow theorist Erwin Schr ö dinger termed "quantum entanglement." In a series of ingenious experiments conducted in various locations—from a dank sewage tunnel under the Danube River to the balmy air between a pair of mountain peaks in the Canary Islands—the author and his colleagues have demonstrated the reality of such entanglement using photons, or light quanta, created by laser beams. In principle the lessons learned may be applicable in other areas, including the eventual development of quantum computers.

3-Minute Einstein Simon and Schuster

For Albert Einstein, 1905 was a remarkable year. It was also a miraculous year for the history and future of science. In six short months, from March through September of that year, Einstein published five papers that would transform our understanding of nature. This unparalleled period is the subject of John Rigden's book, which deftly explains what distinguishes 1905 from all other years in the annals of science, and elevates Einstein above all other scientists of the twentieth century. Rigden chronicles the momentous theories that Einstein put forth beginning in March 1905: his particle theory of light, rejected for decades but now a staple of physics; his overlooked dissertation on molecular dimensions; his theory of Brownian motion; his theory of special relativity; and the work in which his famous equation, E = mc2, first appeared. Through his lucid exposition of these ideas, the context in which they were presented, and the impact they had--and still have--on society, Rigden makes the circumstances of Einstein's greatness thoroughly and captivatingly clear. To help readers understand how these ideas continued to develop, he briefly describes Einstein's post-1905 contributions, including the general theory of relativity. One hundred years after Einstein's prodigious accomplishment, this book invites us to learn about ideas that have influenced our lives in almost inconceivable ways, and to

appreciate their author's status as the standard of greatness in twentieth-century science.

Q is for Quantum Dutton Adult

'Gribbin has inspired generations with his popular science writing' Jim Al-Khalili A scintillating collection of short essays that really does cover 'life, the Universe, and everything'. From the mysteries of the subatomic world to the curious property of water that makes our planet inhabitable, master of popular science John Gribbin delves into the astonishing facts that underlie our existence. Some aspects of the quantum world really do seem impossible to 'common sense', but have been proved correct by experiments. Other features of the Universe appear obvious, such as the fact that atoms are mostly empty space. But this familiarity hides the truly amazing truths underpinning these observations. And some things merely seem improbable but are also hiding a Deep Truth, such as the fact that the Moon and Sun look the same size as viewed from Earth. This book will change forever the way you view the world.

Einstein Icon Books

Critical acclaim for John Gribbin "The master of popular science." —Sunday Times (London) "Gribbin explains things very well indeed, and there's not an equation in sight." —David Goodstein, The New York Times Book Review (on Almost Everyone's Guide to Science) "Gribbin breathes life into the core ideas of complexity science, and argues

convincingly that the basic laws, even in biology, will ultimately turn out to be simple." —Nature magazine (on Deep Simplicity) "Gribbin takes us through the basics [of chaos theory] with his customary talent for accessibility and clarity. [His] arguments are driven not by impersonal equations but by a sense of wonder at the presence in the universe and in nature of simple, self-organizing harmonies underpinning all structures, whether they are stars or flowers." —Sunday Times (London) (on Deep Simplicity) "In the true quantum realm, Gribbin remains the premier expositor of the latest developments." —Booklist (on Schr ö dinger's Kittens and the Search for Reality)

Einstein Penguin Books India 2005 marks the 100th anniversary of Einstein's three papers which were the basis for the Theory of Relativity, and that are referred to in the science community as the "Annus Mirabilis."

In Search of the Edge of Time MIT Press

Nobody, as far as I am aware, has told the story of Einstein so succinctly while also being so accurate (or, indeed, so accurately while also being so succinct). -John Gribbin Albert Einstein was an exceptional scientific genius, whose spacetime theories laid the foundations of modern physics. Einstein was not only a brilliant physicist, but also a human rights campaigner, a political activist, and the iconic archetype of the mad, yet brilliant, professor. 3-Minute Einstein is the instant introduction to this great genius of time and of our times. This bite-size biography divides Einstein's life into 3-minute morsels-each presented as an easily digestible visual snack. You can read it at the speed of light. Become an expert on the life history and career highlights of Einstein in 3 hours. Divided into 3 sections on Life, Theories, and Influence-each

containing an hour's worth of fascinating facts. Each topic divided into 3-minute bites that you can digest almost without pausing for thought.

Stephen Hawking Penguin Group

“ An elegant and accessible ” investigation of quantum mechanics for non-specialists— “ highly recommended ” for students of the sciences, sci-fi fans, and anyone interested in the strange world of quantum physics (Forbes) Rules of the quantum world seem to say that a cat can be both alive and dead at the same time and a particle can be in two places at once. And that particle is also a wave; everything in the quantum world can described in terms of waves—or entirely in terms of particles. These interpretations were all established by the end of the 1920s, by Erwin Schr ö dinger, Werner Heisenberg, Paul Dirac, and others. But no one has yet come up with a common sense explanation of what is going on. In this concise and engaging book, astrophysicist John Gribbin offers an overview of six of the leading interpretations of quantum mechanics. Gribbin calls his account “ agnostic, ” explaining that none of these interpretations is any better—or any worse—than any of the others. Gribbin presents the Copenhagen Interpretation, promoted by Niels Bohr and named by Heisenberg; the Pilot-Wave Interpretation, developed by Louis de Broglie; the Many Worlds Interpretation (termed “ excess baggage ” by Gribbin); the Decoherence Interpretation (“ incoherent ”); the Ensemble “ Non-Interpretation ” ; and the Timeless Transactional Interpretation (which theorized waves going both forward and backward in time). All of these interpretations are crazy, Gribbin warns, and some are more crazy than others—but in the quantum world, being more crazy does not necessarily mean more wrong.

Six Impossible Things Turner Publishing Company

'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.

Schrodinger's Kittens Simon and Schuster

One hundred years on from his birth, and 30 since his death, Richard Feynman's discoveries in modern physics are still thoroughly relevant. Magnificently charismatic and fun-loving, he brought a sense of adventure to the study of science. His extraordinary career included war-time work on the atomic bomb at Los Alamos, a profoundly original theory of quantum mechanics, for which he won the Nobel prize, and major contributions to the sciences of gravity, nuclear physics and particle theory. Interweaving personal anecdotes and recollections with clear scientific narrative, acclaimed science writers John and Mary Gribbin reveal a fascinating man with an immense passion for life – a superb teacher, a wonderful showman and one of the greatest scientists of his generation.

13.8 Random House

"A masterly assessment of the way the idea of quanta of radiation became part of 20th-century physics. . . . The book not only deals with a topic of importance and interest to all scientists, but is also a polished literary work, described (accurately) by one of its original reviewers as a scientific detective story."—John Gribbin, New Scientist "Every scientist should have this

book."—Paul Davies, New Scientist

The Scientists Viking

Quantum theory is so shocking that Einstein could not bring himself to accept it. It is so important that it provides the fundamental underpinning of all modern sciences. Without it, we'd have no computers, no science of molecular biology, no understanding of DNA, no genetic engineering. In Search of Schrodinger's Cat tells the complete story of quantum mechanics, a truth stranger than any fiction. John Gribbin takes us step by step into an even more bizarre and fascinating place, requiring only that we approach it with an open mind. He introduces the scientists who developed quantum theory. He investigates the atom, radiation, time travel, the birth of the universe, super conductors and life itself. And in a world full of its own delights, mysteries and surprises, he searches for Schrodinger's Cat - a search for quantum reality - as he brings every reader to a clear understanding of the most important area of scientific study today - quantum physics. In Search of Schrodinger's Cat is a fascinating and delightful introduction to the strange world of the quantum - an essential element in understanding today's world.

Albert Einstein Farrar, Straus and Giroux

In this radically revised and updated edition incorporating the latest scientific findings, acclaimed science writer and cosmologist John Gribbin explores the origins of the Universe and considers its ultimate fate.

On Gravity University of Chicago Press

Covering an epic sweep of science, from the Greek

philosophers right through to Einstein and his groundbreaking work, Mary and John Gribbin have written a compelling account of the personalities and events that lie behind the scientific milestones of history. Find out how a young Isaac Newton caused the first ever UFO scare while flying a home-made paper lantern and how Archimedes was so wrapped up in his work, he didn't notice that his city had been invaded by Romans. centuries have used and built on each other's knowledge in order to make their world changing discoveries. It also puts into perspective the incredible amount we have learnt about our universe in 2000 years.

Quantum **JHU Press**

Discusses the major issues in science, including the structure of particles within the atom, origins of species, and the birth of the universe.

The Evolution of Physics **Cambridge University Press**

Quantum theory is so shocking that Einstein could not bring himself to accept it. It is so important that it provides the fundamental underpinning of all modern sciences. Without it, we'd have no nuclear power or nuclear weapons, no TV, no computers, no science of molecular biology, no understanding of DNA, no genetic engineering. In Search of Schrodinger's Cat tells the complete story of quantum mechanics, a truth stranger than any fiction. John Gribbin takes us step by step into an ever more bizarre and fascinating place, requiring only that we approach it with an open mind. He introduces the scientists who developed quantum theory. He investigates the atom, radiation, time travel, the birth of the universe, superconductors and life

itself. And in a world full of its own delights, mysteries and surprises, he searches for Schrodinger's Cat - a search for quantum reality - as he brings every reader to a clear understanding of the most important area of scientific study today - quantum physics. In Search of Schrodinger's Cat is a fascinating and delightful introduction to the strange world of the quantum - an essential element in understanding today's world.