

## **Deep Simplicity John Gribbin**

*Deep Simplicity Deep Simplicity Deep Simplicity Deep Simplicity Ice Age In Search of Schrodinger's Cat The Universe Ice Age Q is for Quantum Space Models of My Life From Here to Infinity The Origins of the Future The Reason Why Andrew Carnegie Chaos Theory The Stuff of the Universe Darwin In 90 Minutes The Birth of Time Seven Pillars of Science Not Fade Away Science: A History Poor Richard's Almanack and Other Writings A Matter of Degrees Science Poorly Made in China The Power of Gold Order in Chaos The Science of Philip Pullman's His Dark Materials Three Scientists and Their Gods Quantum Physics Computing with Quantum Cats Schrodinger's Kittens Planet Earth The Alchemy of Finance In Search of the Edge of Time Money and Power He Knew He Was Right Flexibility in Engineering Design Faraday, Maxwell, and the Electromagnetic Field*

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*Order in Chaos Jul 09 2020 German general Hermann Balck (1897–1982) was considered to be one of World War II's greatest battlefield commanders. His brilliantly fought battles were masterpieces of tactical agility, mobile counterattack, and the technique of Auftragstaktik, or "mission command." However, because he declined to participate in the U.S. Army's military history debriefing program, today he is known only to serious students of the war. Drawing heavily on his meticulously kept wartime journals, Balck discusses his childhood and his career through the First and Second World Wars. His memoir details the command decision-making process as well as operations on the ground during crucial battles, including the Battle of the Marne in World War I and his incredible victories against a larger and better-equipped Soviet army at the Chir River in World War II. Balck also offers observations on Germany's greatest generals, such as Erich Ludendorff and Heinz Guderian, and shares his thoughts on international relations, domestic politics, and Germany's place in history. Available in English for the first time in an expertly edited and annotated edition, this important book provides essential information about the German military during a critical era in modern history.*

*A Matter of Degrees Nov 12 2020 Theorizes that temperature is the most revealing method of measurement, considering such topics as the fixed internal temperature of most mammals, the significance of hydrothermal vents on the ocean floor, and the problem of superconductivity in quantum physics. Reprint.*

*Darwin In 90 Minutes May 19 2021*

*Poor Richard's Almanack and Other Writings Dec 14 2020 " A fascinating compilation of weather forecasts, recipes, jokes, and aphorisms, Poor Richard's Almanack debuted in 1732. This new edition presents hundreds of Franklin's maxims, along with selections from the Letters, Autobiography, and Franklin's Way to Wealth. An ideal resource for writers, public speakers, and students, this practical, charming little book will delight all readers with its folk wisdom"--*

*Models of My Life Dec 26 2021 In this candid and witty autobiography, Nobel laureate Herbert A. Simon looks at his distinguished and varied career, continually asking himself whether (and how) what he learned as a scientist helps to explain other aspects of his life. A brilliant polymath in an age of increasing specialization, Simon is one of those rare scholars whose work defines fields of inquiry. Crossing disciplinary lines in half a dozen fields, Simon's story encompasses an explosion in the information sciences, the transformation of psychology by the information-processing paradigm, and the use of computer simulation for modeling the behavior of highly complex systems. Simon's theory of bounded rationality led to a Nobel Prize in economics, and his work on building machines that think—based on the notion that human intelligence is the rule-governed manipulation of symbols—laid conceptual foundations for the new cognitive science. Subsequently, contrasting metaphors of the maze (Simon's view) and of the mind (neural nets) have dominated the artificial intelligence debate. There is also a warm account of his successful marriage and of an unconsummated love affair, letters to his children, columns, a short story, and political and personal intrigue in academe.*

*Deep Simplicity Sep 03 2022 But the sensitive way in which systems respond to those basic laws, combined with feedback, can explain why, for example, just one vehicle braking on a motorway can cause a traffic jam; how a tiny genetic mutation or environmental change may make a species develop in a wholly different way.*

**The Reason Why Sep 22 2021** "In this ground-breaking and provocative new book Gribbin argues that we owe our existence to the impact of a 'supercomet' with Venus 600 million years ago. But this is only part of the story, just one of the astronomical and geophysical reasons why Earth is special. For the first time, he makes the link between the whole series of cosmic events that have affected the Earth and given rise to our intelligent civilization - a civilization, Gribbin argues, that is unique within our Milky Way Galaxy. Even if other Earths are common, and life itself may be common, the kind of intelligent, technological civilization that has emerged on Earth occurs only here. If humankind can survive the present environmental crises, the whole of the galaxy may become our home. And if not, our demise may be an event of literally universal significance"--Publisher's description.

**Planet Earth Jan 03 2020** A highly entertaining and accessible introduction to our planet from the bestselling author of *In Search of Schrödinger's Cat*, *The Scientists*, and *In Search of the Multiverse* In this lively expedition into the origins, evolution, and workings of our planet, John Gribbin does what he does best: gathers 4.5 billion years of geological history and shares the best bits. Taking an astronomer's perspective, Gribbin follows Earth's development from its beginnings in cosmic gas and dust to the explosion of human life after the last ice age, combining stories of scientific discovery with gripping accounts of geological activity - earthquakes, volcanoes, and climate change. Along the journey we consider Lord Kelvin's time-scale for the life of the sun; the meteorologist who first championed the idea of continental drift; and an intriguing proposal that Earth has expanded substantially in recent millennia. Told in Gribbin's dynamic and beloved voice, this is the perfect introduction to geology and an essential guidebook for anyone wanting to better appreciate the wonders of our shared home.

**In Search of Schrodinger's Cat May 31 2022** 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.

**The Universe Apr 29 2022** *The Universe: A Biography* makes cosmology accessible to everyone. John Gribbin navigates the latest frontiers of scientific discovery to tell us what we really know about the history of the universe. Along the way, he describes how the universe began; what the early universe looked like; how its structure developed; and what emerged to hold it all together. He describes where the elements came from; how stars and galaxies formed; and the story of how life emerged. He even looks to the future: is the history of the universe going to end with a Big Crunch or a Big Rip?

**Q is for Quantum Feb 25 2022** In the ultimate guide to the ultimate mystery--the quantum world--an award-winning scientist and a master of popular science writing explains recent breakthroughs and the wondrous possibilities that lie in the future. Illustrations throughout.

**The Alchemy of Finance Dec 02 2019** New chapter by Soros on the secrets to his success along with a new Preface and Introduction. New Foreword by renowned economist Paul Volcker "An extraordinary . . . inside look into the decision-making process of the most successful money manager of our time. Fantastic." —*The Wall Street Journal* George Soros is unquestionably one of the most powerful and profitable investors in the world today. Dubbed by *BusinessWeek* as "the Man who Moves Markets," Soros made a fortune competing with the British pound and remains active today in the global financial community. Now, in this special edition of the classic investment book, *The Alchemy of Finance*, Soros presents a theoretical and practical account of current financial trends and a new paradigm by which to understand the financial market today. This edition's expanded and revised Introduction details Soros's innovative investment practices along with his views of the world and world order. He also describes a new paradigm for the "theory of reflexivity" which underlies his unique investment strategies. Filled with expert advice and valuable business lessons, *The Alchemy of Finance* reveals the timeless principles of an investing legend. This special edition will feature a new chapter by Soros on the secrets of his success and a new Foreword by the Honorable Paul Volcker, former Chairman of the Federal Reserve. George Soros (New York, NY) is President of Soros Fund Management and Chief Investment Advisor to Quantum Fund N.V., a \$12 billion international investment fund. Besides his numerous ventures in finance, Soros is also extremely active in the worlds of education, culture, and economic aid and development through his Open Society Fund and the Soros Foundation.

**Quantum Physics Apr 05 2020** Presents a guide to quantum physics including the history of quantum theory, its basic principles, and future applications.

**Money and Power Sep 30 2019** From the bestselling, prize-winning author of "The Last Tycoons" and "House of Cards" comes a revelatory history of Goldman Sachs, the most dominant, feared, and controversial investment bank in the world.

**Not Fade Away Feb 13 2021** Buddy Holly was killed at 22 when the plane he was travelling in crashed on 3 February 1959. Although this was less than two years after Holly's first hit record, Don McLean described this as 'the day the

music died.' But Sonny Curtis, Holly's friend and musical colleague, told us that the music didn't die, because 'Buddy Holly lives every time you play rock'n'roll.' Fifty years after Holly's death, his lasting influence is clear; a musical based on his life seems set to run for longer than his lifetime and artists as diverse as Blink 182 and Bob Dylan call him an inspiration. The Beatles chose *That'll Be the Day* by Buddy's group The Crickets as their first attempt at recording, as well as taking the idea for their name. Clearly, the music didn't die! John Gribbin, an ardent fan since he was twelve, presents this labour of love written in the spirit of Sonny Curtis' lyric, as a celebration of Holly's all too brief life, and as an introduction, for all those not around in 1959, to the man and his astonishing musical legacy. "Not Fade Away" also includes - uniquely - a full and detailed account of every Holly recording session, which any Buddy fan will devour.

*In Search of the Edge of Time* Oct 31 2019

*Deep Simplicity* Oct 04 2022 Over the past two decades, no field of scientific inquiry has had a more striking impact across a wide array of disciplines—from biology to physics, computing to meteorology—than that known as chaos and complexity, the study of complex systems. Now astrophysicist John Gribbin draws on his expertise to explore, in prose that communicates not only the wonder but the substance of cutting-edge science, the principles behind chaos and complexity. He reveals the remarkable ways these two revolutionary theories have been applied over the last twenty years to explain all sorts of phenomena—from weather patterns to mass extinctions. Grounding these paradigm-shifting ideas in their historical context, Gribbin also traces their development from Newton to Darwin to Lorenz, Prigogine, and Lovelock, demonstrating how—far from overturning all that has gone before—chaos and complexity are the triumphant extensions of simple scientific laws. Ultimately, Gribbin illustrates how chaos and complexity permeate the universe on every scale, governing the evolution of life and galaxies alike.

*The Birth of Time* Apr 17 2021 "Gribbin takes us through the history of cosmological discoveries, focusing in particular on the seventy years since the Big Bang model of the origin of the universe. He explains how conflicting views of the age of the universe and stars converged in the 1990s because scientists (including Gribbin) were able to use data from the Hubble Space Telescope that measured distances across the universe."--BOOK JACKET. Title Summary field provided by Blackwell North America, Inc. All Rights Reserved

*The Science of Philip Pullman's His Dark Materials* Jun 07 2020 HIS DARK MATERIALS IS SOON TO BE AN HBO ORIGINAL SERIES STARRING DAFNE KEEN, RUTH WILSON, JAMES McAVOY, AND LIN-MANUEL MIRANDA! Philip Pullman's *His Dark Materials* trilogy is renowned for its mystery and magic. What's the truth behind it all? Is the golden compass actually based in science? How does the subtle knife cut through anything? Could there be a bomb like the one made with Lyra's hair? How do the Gallivespians' lodestone resonators really work? And, of course, what are the *Dark Materials*? Drawing on string theory and spacetime, quantum physics and chaos theory, award-winning science writers Mary and John Gribbin reveal the real science behind Philip Pullman's bestselling fantasy trilogy in entertaining and crystal-clear prose. Don't miss Philip Pullman's epic new trilogy set in the world of *His Dark Materials*! \*\* THE BOOK OF DUST \*\* *La Belle Sauvage*—now in paperback *The Secret Commonwealth*—coming October 3

*Science* Oct 12 2020 This title begins with Galileo and takes the reader through to the scientific developments of string theory. An accessible narrative history, it focuses on the way in which science has progressed by building on what went before and details the work of science's greatest minds.

*He Knew He Was Right* Aug 29 2019 Jim Lovelock is an iconic figure in British science, a prophet whose prophecies are coming true. This is his definitive authorised biography. Lovelock is best known as the 'father' of Gaia theory, which is now established as the most useful way of understanding the dramatic changes happening to the environment of the Earth. But few people know about his early work as a chemist and inventor - work which included inventing the detectors used to search for life on Mars, and blowing the whistle on the depletion of ozone layer. In his personal life, he was a Quaker and conscientious objector in World War Two (later changing his mind in view of the evils of Nazism), supported his family for a time by selling his own blood, and gave up a salary and security to become an independent scientist based in an English village - from which all his best known work emerged. As he approaches his 90th birthday, looking forward to going into space, this book truly reveals an independent, original and inspiring life.

*Seven Pillars of Science* Mar 17 2021 John Gribbin, author of *Six Impossible Things*, shortlisted for the Royal Society Insight Investment Science Book Prize, presents a tour of seven fundamental scientific truths that underpin our very existence. These 'pillars of science' also defy common sense. For example, solid things are mostly empty space, so how do they hold together? There appears to be no special 'life force', so how do we distinguish living things from inanimate objects? And why does ice float on water, when most solids don't? You might think that question hardly needs asking, and yet if ice didn't float, life on Earth would never have happened. The answers to all of these questions were sensational in their day, and some still are. Throughout history, science has been able to think the unthinkable - and Gribbin brilliantly shows the surprising secrets on which our understanding of life is based.

*From Here to Infinity* Nov 24 2021 Presents an introduction to astronomy, including the planets, stars, galaxies, and the field of cosmology.

*Space* Jan 27 2022 The story of the exploration of deep space that has largely taken place in the final decades of the 20th century. Space probes have now visited all of the major planets of our Solar System. However, beyond the Solar System, across the final frontier of space, astronomers are now able to explore the Universe by proxy, using

evidence from light, radio waves, X-rays and other information gathered by telescopes and satellites. Space provides an insight into the way that astronomers work, explaining how they make the discoveries that make headlines, as well as the stories behind those headlines. John Gribbin puts deep space into perspective with the aid of specially commissioned illustrations and photographs from astronomical telescopes.

**Ice Age Jul 01 2022** On 24 June 1837, Louis Agassiz stunned the learned members of the Swiss Society of Natural Sciences by addressing them, in his role as President, not with an anticipated lecture on fossil fishes, but with a passionate presentation on the existence of Ice Ages. No one was convinced. He even dragged the reluctant members of the Society up into the mountains to see the evidence for themselves, pointing out the scars on the hard rocks left by glaciation (which some of those present tried to explain away as having been produced by the wheels of passing carriages). Extraordinarily, it would take a further 140 years before the Ice Age theory was fully proved and understood.

**Faraday, Maxwell, and the Electromagnetic Field Jun 27 2019** The story of two brilliant nineteenth-century scientists who discovered the electromagnetic field, laying the groundwork for the amazing technological and theoretical breakthroughs of the twentieth century. Two of the boldest and most creative scientists of all time were Michael Faraday (1791-1867) and James Clerk Maxwell (1831-1879). This is the story of how these two men - separated in age by forty years - discovered the existence of the electromagnetic field and devised a radically new theory which overturned the strictly mechanical view of the world that had prevailed since Newton's time. The authors, veteran science writers with special expertise in physics and engineering, have created a lively narrative that interweaves rich biographical detail from each man's life with clear explanations of their scientific accomplishments. Faraday was an autodidact, who overcame class prejudice and a lack of mathematical training to become renowned for his acute powers of experimental observation, technological skills, and prodigious scientific imagination. James Clerk Maxwell was highly regarded as one of the most brilliant mathematical physicists of the age. He made an enormous number of advances in his own right. But when he translated Faraday's ideas into mathematical language, thus creating field theory, this unified framework of electricity, magnetism and light became the basis for much of later, 20th-century physics. Faraday's and Maxwell's collaborative efforts gave rise to many of the technological innovations we take for granted today - from electric power generation to television, and much more. Told with panache, warmth, and clarity, this captivating story of their greatest work - in which each played an equal part - and their inspiring lives will bring new appreciation to these giants of science.

**The Origins of the Future Oct 24 2021** Gribbin focuses on ten controversial, unanswered issues in the physical sciences and explains how current cutting-edge research may yield solutions in the very near future. He explores ideas concerning the creation of the universe, the possibility of other forms of life, and the fate of the expanding cosmos.

**The Stuff of the Universe Jun 19 2021**

**Poorly Made in China Sep 10 2020** An insider reveals what can—and does—go wrong when companies shift production to China. In this entertaining behind-the-scenes account, Paul Midler tells us all that is wrong with our effort to shift manufacturing to China. Now updated and expanded, *Poorly Made in China* reveals industry secrets, including the dangerous practice of quality fade—the deliberate and secret habit of Chinese manufacturers to widen profit margins through the reduction of quality inputs. U.S. importers don't stand a chance, Midler explains, against savvy Chinese suppliers who feel they have little to lose by placing consumer safety at risk for the sake of greater profit. This is a lively and impassioned personal account, a collection of true stories, told by an American who has worked in the country for close to two decades. *Poorly Made in China* touches on a number of issues that affect us all.

**Ice Age Mar 29 2022** "John and Mary Gribbin tell the remarkable story of how we came to understand the phenomenon of Ice Ages, focusing on the key personalities obsessed with the search for answers. How frequently do Ice Ages occur? How do astronomical rhythms affect the Earth's climate? Have there always been two polar ice caps? Is it true that tiny changes in the heat balance of the Earth could plunge us back into full Ice Age conditions? With startling new material on how the last major Ice Epoch could have hastened human evolution, *Ice Age* explains why the Earth was once covered in ice - and how that made us human."--BOOK JACKET.

**The Power of Gold Aug 10 2020** Incorporating myth, history and contemporary investigation, Bernstein tells the story of how human beings have become intoxicated, obsessed, enriched, impoverished, humbled and proud for the sake of gold. From the past to the future, Bernstein's portrayal of gold is intimately linked to the character of humankind.

**Schrodinger's Kittens Feb 02 2020** Accessible exploration of one of the most exciting areas of scientific inquiry - the nature of light. Following on from his bestseller, *SCHRODINGER'S CAT*, John Gribbin presents the recent dramatic improvements in experimental techniques that have enabled physicists to formulate and test new theories about the nature of light. He describes these theories not in terms of hard-to-imagine entities like spinning subnuclear particles, but in terms of the fate of two small cats, separated at a tender age and carried to opposite ends of the universe. In this way Gribbin introduces the reader to such new developments as quantum cryptography, through which unbreakable codes can be made, and goes on to possible future developments such as the idea that the 'entanglement' of quantum particles could be a way to build a STAR TREK style teleportation machine.

**Deep Simplicity Aug 02 2022** The world around us seems to be a complex place. But, as John Gribbin explains, chaos and complexity obey simple laws - essentially, the same straightforward principles that Isaac Newton

discovered more than 300 years ago.

**Flexibility in Engineering Design** Jul 29 2019 A guide to using the power of design flexibility to improve the performance of complex technological projects, for designers, managers, users, and analysts. Project teams can improve results by recognizing that the future is inevitably uncertain and that by creating flexible designs they can adapt to eventualities. This approach enables them to take advantage of new opportunities and avoid harmful losses. Designers of complex, long-lasting projects—such as communication networks, power plants, or hospitals—must learn to abandon fixed specifications and narrow forecasts. They need to avoid the “flaw of averages,” the conceptual pitfall that traps so many designs in underperformance. Failure to allow for changing circumstances risks leaving significant value untapped. This book is a guide for creating and implementing value-enhancing flexibility in design. It will be an essential resource for all participants in the development and operation of technological systems: designers, managers, financial analysts, investors, regulators, and academics. The book provides a high-level overview of why flexibility in design is needed to deliver significantly increased value. It describes in detail methods to identify, select, and implement useful flexibility. The book is unique in that it explicitly recognizes that future outcomes are uncertain. It thus presents forecasting, analysis, and evaluation tools especially suited to this reality. Appendixes provide expanded explanations of concepts and analytic tools.

**Three Scientists and Their Gods** May 07 2020 Examines the concepts of information, meaning, and purpose, describes the function of information at various levels of organization, and discusses the theories of Edward Fredkin, Edward O. Wilson, and Kenneth Blouiding

**Deep Simplicity** Nov 05 2022 'Gribbin takes us through the basics with his customary talent for accessibility and clarity' Sunday Times The world around us can be a complex, confusing place. Earthquakes happen without warning, stock markets fluctuate, weather forecasters seldom seem to get it right - even other people continue to baffle us. How do we make sense of it all? In fact, John Gribbin reveals, our seemingly random universe is actually built on simple laws of cause and effect that can explain why, for example, just one vehicle braking can cause a traffic jam; why wild storms result from a slight atmospheric change; even how we evolved from the most basic materials. Like a zen painting, a fractal image or the pattern on a butterfly's wings, simple elements form the bedrock of a sophisticated whole. Synthesizing chaos and complexity theory for the perplexed, *Deep Simplicity* brilliantly illuminates the harmony underlying our existence.

**Andrew Carnegie** Aug 22 2021 The definitive biography of an industrial genius, philanthropist, and enigma.

**Computing with Quantum Cats** Mar 05 2020 Pioneering study of the science behind quantum computing and what the new quantum reality will mean for mankind. The quantum computer is no longer the stuff of science fiction. Pioneering physicists are on the brink of unlocking a new quantum universe which provides a better representation of reality than our everyday experiences and common sense ever could. The birth of quantum computers -- which, like Schrodinger's famous 'dead and alive' cat, rely on entities like electrons, photons or atoms existing in two states at the same time -- is set to turn the computing world on its head. In his fascinating study of this cutting-edge technology, John Gribbin updates his previous views on the nature of quantum reality, arguing for a universe of many parallel worlds where 'everything is real'. Looking back to Alan Turing's work on the Enigma machine and the first electronic computer, Gribbin explains how quantum theory developed to make quantum computers work in practice as well as in principle. He takes us beyond the arena of theoretical physics to explore their practical applications -- from machines which learn through 'intuition' and trial and error to unhackable laptops and smartphones. And he investigates the potential for this extraordinary science to create a world where communication occurs faster than light and teleportation is possible."

**Science: A History** Jan 15 2021 In this book, John Gribbin tells the story of the people who made science and the turbulent times they lived in. As well as famous figures such as Copernicus, Darwin and Einstein, there are also the obscure, the eccentric, even the mad. This diverse cast includes, among others, Andreas Vesalius, landmark 16th-century anatomist and secret grave-robber; the flamboyant Galileo, accused of heresy for his ideas; the obsessive, competitive Newton, who wrote his rivals out of the history books; Gregor Mendel, the Moravian monk who founded modern genetics; and Louis Agassiz, so determined to prove the existence of ice ages that he marched his colleagues up a mountain to show them the evidence.

**Chaos Theory** Jul 21 2021