

Deep Simplicity Bringing Order To Chaos And Complexity John Gribbin

Eventually, you will agreed discover a further experience and execution by spending more cash. yet when? accomplish you admit that you require to get those all needs later than having significantly cash? Why dont you attempt to get something basic in the beginning? Thats something that will guide you to understand even more around the globe, experience, some places, similar to history, amusement, and a lot more?

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Four Laws That Drive the Universe - Peter Atkins

2007-09-06

The laws of thermodynamics drive everything that happens in the universe. From the sudden expansion of a cloud of gas to the cooling of hot metal, and from the unfurling of a leaf to the course of life itself - everything is directed and constrained by four simple laws. They establish fundamental concepts such as temperature and heat, and reveal the arrow of time and even the nature of energy itself. Peter Atkins' powerful and compelling introduction explains what the laws are and how they work, using accessible language and virtually no mathematics. Guiding the reader from the Zeroth Law to the Third Law, he introduces the fascinating concept of entropy, and how it not only explains why your desk tends to get messier, but also how its unstoppable rise

constitutes the engine of the universe.

E.I.A.S.C.O. - Frank Partnoy 1997

Deep Simplicity - John R. Gribbin 2004

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.

Faraday, Maxwell, and the Electromagnetic Field - Nancy Forbes 2014-03-11

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.

Seven Pillars of Science - John Gribbin

2022-01-06

The seven fundamental - and surprising - scientific truths of our existence.

Three Scientists and Their Gods - Robert Wright
1988

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 Blouin

In Search of Schrodinger's Cat - John Gribbin

1984-08-01

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 Scientists - John Gribbin 2019-07-30

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.

Deep Simplicity - John Gribbin 2009-08-27

'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.

Quantum Entanglement - Jed Brody 2020-02-18

An exploration of quantum entanglement and the ways in which it contradicts our everyday assumptions about the ultimate nature of reality.

Quantum physics is notable for its brazen defiance of common sense. (Think of Schrödinger's Cat, famously both dead and alive.)

An especially rigorous form of quantum contradiction occurs in experiments with entangled particles. Our common assumption is that objects have properties whether or not anyone is observing them, and the measurement of one can't affect the other. Quantum entanglement—called by Einstein “spooky action at a distance”—rejects this assumption, offering impeccable reasoning and irrefutable evidence of the opposite. Is quantum entanglement mystical, or just mystifying? In this volume in the MIT Press Essential Knowledge series, Jed Brody equips readers to decide for themselves. He explains how our commonsense assumptions impose constraints—from which entangled particles break free. Brody explores such concepts as local realism, Bell's inequality, polarization, time dilation, and special relativity. He introduces readers to imaginary physicists Alice and Bob and their photon analyses; points out that it's easier to reject falsehood than establish the truth; and reports that some physicists explain entanglement by arguing that we live in a cross-section of a

higher-dimensional reality. He examines a variety of viewpoints held by physicists, including quantum decoherence, Niels Bohr's Copenhagen interpretation, genuine fortuitousness, and QBism. This relatively recent interpretation, an abbreviation of “quantum Bayesianism,” holds that there's no such thing as an absolutely accurate, objective probability “out there,” that quantum mechanical probabilities are subjective judgments, and there's no “action at a distance,” spooky or otherwise.

The Big Picture - Sean Carroll 2016-05-10

The instant New York Times bestseller about humanity's place in the universe—and how we understand it. “Vivid...impressive....Splendidly informative.”—The New York Times “Succeeds spectacularly.”—Science “A tour de force.”—Salon Already internationally acclaimed for his elegant, lucid writing on the most challenging notions in modern physics, Sean Carroll is emerging as one of the greatest humanist thinkers of his generation as he brings his extraordinary intellect to bear not only on Higgs bosons and extra dimensions but now also on our deepest personal questions: Where are we? Who are we? Are our emotions, our beliefs, and our hopes and dreams ultimately meaningless out there in the void? Do human purpose and meaning fit into a scientific worldview? In short chapters filled with intriguing historical anecdotes, personal asides, and rigorous exposition, readers learn the difference

between how the world works at the quantum level, the cosmic level, and the human level—and then how each connects to the other. Carroll's presentation of the principles that have guided the scientific revolution from Darwin and Einstein to the origins of life, consciousness, and the universe is dazzlingly unique. Carroll shows how an avalanche of discoveries in the past few hundred years has changed our world and what really matters to us. Our lives are dwarfed like never before by the immensity of space and time, but they are redeemed by our capacity to comprehend it and give it meaning. *The Big Picture* is an unprecedented scientific worldview, a tour de force that will sit on shelves alongside the works of Stephen Hawking, Carl Sagan, Daniel Dennett, and E. O. Wilson for years to come.

Deep Simplicity - John Gribbin 2005-04-05

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.

Ice Age - John Gribbin 2001

"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.

Models of My Life - Herbert A. Simon 1996-10-08

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.

How Things Are: Science Tool Kit For The Mind -
John Brockman 1910

The Universe - John Gribbin 2008-01-31

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?

Benjamin Franklin - Carl Van Doren 1952

Schrodinger's Kittens - John Gribbin 2012-12-31
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.

The Theoretical Minimum - Leonard Susskind

2014-04-22

A master teacher presents the ultimate introduction to classical mechanics for people who are serious about learning physics "Beautifully clear explanations of famously 'difficult' things," -- Wall Street Journal If you ever regretted not taking physics in college -- or simply want to know how to think like a physicist -- this is the book for you. In this bestselling introduction to classical mechanics, physicist Leonard Susskind and hacker-scientist George Hrabovsky offer a first course in physics and associated math for the ardent amateur. Challenging, lucid, and concise, *The Theoretical Minimum* provides a tool kit for amateur scientists to learn physics at their own pace.

Not Fade Away - John Gribbin 2012

A new, popular biography of Buddy Holly, published on the 50th anniversary of his tragic death.

Order in Chaos - Hermann Balck 2015-06-23

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.

13.8 - John Gribbin 2016-09-08

The 20th century gave us two great theories of physics: the general theory of relativity, which describes the behaviour of things on a very large scale, including the entire Universe; and quantum theory, which describes the behaviour of things on a very small scale, the sub-atomic world. The refusal of the Universe to reveal an equation that combines these two great ideas has caused some people to doubt our whole understanding of physics. In this landmark new book, popular science master John Gribbin tells the dramatic

story of the quest that has led us to discover the true age of the Universe (13.8 billion years) and the stars (just a little bit younger). This discovery, Gribbin argues, is one of humankind's greatest achievements and shows us that physics is on the right track to finding the 'Theory of Everything'. 13.8 provides an eye-opening look at this cutting-edge area of modern cosmology and physics, and tells the compelling story of what modern science has achieved - and what it can still achieve.

Dancing Naked in the Mind Field - Kary Mullis
2010-11-17

Here is a multidimensional playland of ideas from the world's most eccentric Nobel-Prize winning scientist. Kary Mullis is legendary for his invention of PCR, which redefined the world of DNA, genetics, and forensic science. He is also a surfer, a veteran of Berkeley in the sixties, and perhaps the only Nobel laureate to describe a possible encounter with aliens. A scientist of boundless curiosity, he refuses to accept any proposition based on secondhand or hearsay evidence, and always looks for the "money trail" when scientists make announcements. Mullis writes with passion and humor about a wide range of topics: from global warming to the O. J. Simpson trial, from poisonous spiders to HIV, from scientific method to astrology. *Dancing Naked in the Mind Field* challenges us to question the authority of scientific dogma even as

it reveals the workings of an uncannily original scientific mind.

Guesstimation - Lawrence Weinstein 2009-02-09
Guesstimation is a book that unlocks the power of approximation--it's popular mathematics rounded to the nearest power of ten! The ability to estimate is an important skill in daily life. More and more leading businesses today use estimation questions in interviews to test applicants' abilities to think on their feet. *Guesstimation* enables anyone with basic math and science skills to estimate virtually anything--quickly--using plausible assumptions and elementary arithmetic. Lawrence Weinstein and John Adam present an eclectic array of estimation problems that range from devilishly simple to quite sophisticated and from serious real-world concerns to downright silly ones. How long would it take a running faucet to fill the inverted dome of the Capitol? What is the total length of all the pickles consumed in the US in one year? What are the relative merits of internal-combustion and electric cars, of coal and nuclear energy? The problems are marvelously diverse, yet the skills to solve them are the same. The authors show how easy it is to derive useful ballpark estimates by breaking complex problems into simpler, more manageable ones--and how there can be many paths to the right answer. The book is written in a question-and-answer format with lots of hints along the way. It includes a

handy appendix summarizing the few formulas and basic science concepts needed, and its small size and French-fold design make it conveniently portable. Illustrated with humorous pen-and-ink sketches, Guesstimation will delight popular-math enthusiasts and is ideal for the classroom.

The Alchemy of Finance - George Soros

2015-06-15

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.

Andrew Carnegie - Joseph Frazier Wall 1970

The definitive biography of an industrial genius, philanthropist, and enigma.

Galaxies: A Very Short Introduction - John Gribbin 2008-03-27

Galaxies are the building blocks of the Universe: standing like islands in space, each is made up of many hundreds of millions of stars in which the chemical elements are made, around which planets form, and where on at least one of those planets intelligent life has emerged. Our own galaxy, the Milky Way, is just one of several hundred million other galaxies that we can now observe through our telescopes. Yet it was only in the 1920s that we realised that there is more to

the Universe than the Milky Way, and that there were in fact other 'islands' out there. In many ways, modern astronomy began with this discovery, and the story of galaxies is therefore the story of modern astronomy. Since then, many exciting discoveries have been made about our own galaxy and about those beyond: how a supermassive black hole lurks at the centre of every galaxy, for example, how enormous forces are released when galaxies collide, how distant galaxies provide a window on the early Universe, and what the formation of young galaxies can tell us about the mysteries of Cold Dark Matter. In this Very Short Introduction, renowned science writer John Gribbin describes the extraordinary things that astronomers are learning about galaxies, and explains how this can shed light on the origins and structure of the Universe. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

[The Science of Philip Pullman's His Dark Materials](#) - John Gribbin 2017-11-16

The amazing true science behind the fiction of His Dark Materials, ideal for fans of the original trilogy and The Book of Dust, with an introduction

by Philip Pullman. Award-winning science writers Mary and John Gribbin reveal how the world of Pullman's His Dark Materials trilogy (Northern Lights, The Subtle Knife and The Amber Spyglass) is rooted in astonishing scientific truth. Drawing on string theory and spacetime, quantum physics and chaos theory, they answer fascinating questions such as: could parallel worlds like Will's and Lyra's really exist? How does the subtle knife cut through anything? Could there be a bomb like the one made with Lyra's hair? And, of course, what are the Dark Materials?

Cybersemiotics - Søren Brier 2008-01-01

Cybersemiotics not only builds a bridge between science and culture, it provides a framework that encompasses them both.

Filters Against Folly - Garrett Hardin 1986-06-03

"For 20 years Garrett Hardin has been our most hardnosed thinker about ecological problems...Filters Against Folly makes provocative reading." -- Michael Crichton The ecological problems facing our world present a forum for experts to offer slogans and solutions on all sides of the issue, but leave most of us confused and unsure of the future. In this bracing book, Garrett Hardin offers a plan for clear thinking about these dangers. He shows how the filters of literacy, understanding what words really mean; numeracy, being able to quantify and interpret information; and ecolacy, assessment of complex

interactions over time, can allow anyone to make sensible judgments about ecological issues--even in the face of a barrage of confusing expertise.

"Filters Against Folly offers an antidote to some of the more perverse and dangerous irrationalities of our time: wishful self-delusion, educated

incapacity, and foolhardy optimism...If ever this book were needed, it is needed today." -- Lynton

K. Caldwell, School of Public Environmental Affairs, Indiana University

Get Your Startup Story Straight - David Riemer

2022-01-11

THE HOW-TO GUIDE FOR INNOVATORS TO IMPROVE THEIR IDEAS AND SUCCESSFULLY LAUNCH THEM THROUGH THE POWER OF

NARRATIVE In a world that's been turned upside down by a pandemic, social upheavals, environmental disasters, and economic disruptions, the need for reinvention is

paramount. While many entrepreneurs and innovators have brilliant ideas, they desperately need the skills to successfully articulate their vision to investors, prospective customers, employees, and stakeholders. In this informative and empowering book, David Riemer breaks down the storytelling clutter so you can gain the attention you need to be successful. Storytelling is foundational. If you have a groundbreaking invention in mind or have a plan to solve worldwide problems, *Get Your Startup Story Straight* is the tool you need to create better

customer-focused solutions, motivate more backers to your project, and ultimately dominate in the market. Broken down into three acts, this

book will allow you to discover the building blocks of your narrative, the storytelling techniques to convey your ideas clearly, and the archetypes for

inspiration. Equipped with a better understanding of your narrative, you will be able to: - Maintain a

constant focus on your customer (your protagonist) - Understand what makes them tick

in a more meaningful way - And focus the product development efforts through the lens of

this narrative The author's own words tell it all:

"Innovators are ubiquitous nowadays, and for this community, storytelling is essential." If you are a creator struggling to get others on board, this is the handbook to refine your story to guide your product strategy, shape your company, and ultimately improve lives.

Chaos & Complexity - Brian H. Kaye 1993-08-26

The surprising patterns of chaos and complexity are to be found in many areas of nature and science, examples ranging from cabbages to coastlines. Quite often, those who could benefit most from an understanding of the principles behind chaos and complexity, for example engineers, geologists, medics, chemists and physicists, are denied access to the power and wonders of the field by the mathematical and unnecessarily convoluted way the topic is usually presented. This book opens up the fascinating

opportunities offered by an understanding of this field to the informed layman, using informative and amusing examples of the application of the principles accompanied by many descriptive figures demonstrating the beauty of a science which can now be understood by all!

Ice Age - John R. Gribbin 2002

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.

Chaos, Complexity, and Sociology - Raymond A. Eve 1997-06-12

Provides a collection of articles which examine the emerging myths and theories surrounding the study of chaos and complexity. Useful to sociologists and others interested in chaos and complexity theory, this title focuses on methodological matters, and also presents conceptual models and applications.

Judgment in Managerial Decision Making - Max H. Bazerman 2001-07-27

Author is a leading theorist in negotiation and decision-making.

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.

In Search of the Multiverse - John Gribbin 2010

We once had to abandon the idea of earth being at the centre of the universe. Now, we need to confront an even more profound possibility: the universe itself might just be one universe among many. In Search of the Multiverse takes us on an

extraordinary journey, examining the most fundamental questions in science. What are the boundaries of our universe? Can there be different physical laws from the ones we know? Are there in fact other universes? Do we really live in a multiverse? This book is a search – the ultimate search – exploring the frontiers of reality. Ideas that were once science fiction have now come to dominate modern physics. And, as John Gribbin shows, there is increasing evidence that there really is more to the universe than we can see. Gribbin guides us through the different competing theories (there is more than one multiverse!) revealing what they have in common and what we can come to expect. He gives a brilliant tour of the current state of cosmology. John Gribbin is our best, most accessible guide to the big questions of science. And there is no bigger question than our search for the multiverse.

Deep Simplicity - John Gribbin 2005

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.

Chance and Chaos - David Ruelle 2020-06-16

How do scientists look at chance, or randomness, and chaos in physical systems? In answering this question for a general audience, Ruelle writes in the best French tradition: he has produced an authoritative and elegant book--a model of clarity, succinctness, and a humor bordering at times on the sardonic.

Almost Everyone's Guide to Science - John Gribbin 2000-01-01

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