

Deep Simplicity John Gribbin

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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.

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.

James Lovelock - John Gribbin 2021-07-13

In 1972, when James Lovelock first proposed the Gaia hypothesis--the idea that the Earth is a living organism that maintains conditions suitable for life--he was ridiculed by the scientific establishment. Today Lovelock's revolutionary insight, though still extremely

controversial, is recognized as one of the most creative, provocative, and captivating scientific ideas of our time. James Lovelock tells for the first time the whole story of this maverick scientist's life and how it served as a unique preparation for the idea of Gaia. Drawing on in-depth interviews with Lovelock himself and unprecedented access to his private papers, John and Mary Gribbin paint an intimate and fascinating portrait of a restless, uniquely gifted freethinker. In a lifetime spanning almost a century, Lovelock has followed a career path that led him from chemistry, to medicine, to engineering, to space science. He worked for the British secret service and contributed to the success of the D-Day landings in World War II. He was a medical experimenter and an accomplished inventor. And he was working with NASA on methods for finding possible life on Mars when he struck upon the idea of Gaia, conceiving of the Earth as a vast, living, self-regulating system. Deftly framed within the

context of today's mounting global-warming crisis, James Lovelock traces the intertwining trajectories of Lovelock's life and the famous idea it brought forth, which continues to provoke passionate debate about the nature and future of life on our planet.

The Power of Gold - Peter L. Bernstein

2005-12-13

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.

Erwin Schrodinger and the Quantum

Revolution - John Gribbin 2012-03-29

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.

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.

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.

Alone in the Universe - John Gribbin 2011-12-01

The acclaimed author of *In Search of Schrödinger's Cat* searches for life on other planets. Are we alone in the universe? Surely amidst the immensity of the cosmos there must be other intelligent life out there. Don't be so sure, says John Gribbin, one of today's best

popular science writers. In this fascinating and intriguing new book, Gribbin argues that the very existence of intelligent life anywhere in the cosmos is, from an astrophysicist's point of view, a miracle. So why is there life on Earth and (seemingly) nowhere else? What happened to make this planet special? Taking us back some 600 million years, Gribbin lets you experience the series of unique cosmic events that were responsible for our unique form of life within the Milky Way Galaxy. Written by one of our foremost popular science writers, author of the bestselling *In Search of Schrödinger's Cat* Offers a bold answer to the eternal question, "Are we alone in the universe?" Explores how the impact of a "supercomet" with Venus 600 million years ago created our moon, and along with it, the perfect conditions for life on Earth. From one of our most talented science writers, this book is a daring, fascinating exploration into the dawning of the universe, cosmic collisions and their consequences, and the uniqueness of

life on Earth.

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?

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.

Filters Against Folly - Garrett Hardin
1986-06-03

"For 20 years Garrett Hardin has been our most

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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

Six Impossible Things - John Gribbin 2019-10-08
A concise and engaging investigation of six interpretations of quantum physics. 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 be described in terms of waves—or entirely in terms of particles. These interpretations were all established by the end of the 1920s, by Erwin Schrödinger, 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.

Cybernetic Revolutionaries - Eden Medina
2014-01-10

A historical study of Chile's twin experiments with cybernetics and socialism, and what they tell us about the relationship of technology and politics. In *Cybernetic Revolutionaries*, Eden Medina tells the history of two intersecting utopian visions, one political and one technological. The first was Chile's experiment

with peaceful socialist change under Salvador Allende; the second was the simultaneous attempt to build a computer system that would manage Chile's economy. Neither vision was fully realized—Allende's government ended with a violent military coup; the system, known as Project Cybersyn, was never completely implemented—but they hold lessons for today about the relationship between technology and politics. Drawing on extensive archival material and interviews, Medina examines the cybernetic system envisioned by the Chilean government—which was to feature holistic system design, decentralized management, human-computer interaction, a national telex network, near real-time control of the growing industrial sector, and modeling the behavior of dynamic systems. She also describes, and documents with photographs, the network's Star Trek-like operations room, which featured swivel chairs with armrest control panels, a wall of screens displaying data, and flashing red lights

to indicate economic emergencies. Studying project Cybersyn today helps us understand not only the technological ambitions of a government in the midst of political change but also the limitations of the Chilean revolution. This history further shows how human attempts to combine the political and the technological with the goal of creating a more just society can open new technological, intellectual, and political possibilities. Technologies, Medina writes, are historical texts; when we read them we are reading history.

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

The Reason Why - John Gribbin 2012

"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.

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.

A Matter of Degrees - Gino Segre 2003-07-01

In a wonderful synthesis of science, history, and imagination, Gino Segrè, an internationally renowned theoretical physicist, embarks on a wide-ranging exploration of how the fundamental scientific concept of temperature is bound up with the very essence of both life and matter. Why is the internal temperature of most mammals fixed near 98.6°? How do geologists use temperature to track the history of our planet? Why is the quest for absolute zero and its quantum mechanical significance the key to understanding superconductivity? And what can we learn from neutrinos, the subatomic "messages from the sun" that may hold the key to understanding the birth-and death-of our solar system? In answering these and hundreds

of other temperature-sensitive questions, Segrè presents an uncanny view of the world around us.

Poorly Made in China - Paul Midler

2011-01-11

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.

From Here to Infinity - John Gribbin 2009-02
Presents an introduction to astronomy, including the planets, stars, galaxies, and the field of cosmology.

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.

The Perfect Swarm - Len Fisher 2011-03-08
The IgNobel Prize-winner and author of *Rock, Paper, Scissors* applies science-based solutions to seemingly complex problems in life.

FIASCO: Blood in the Water on Wall Street - Frank Partnoy 2009-04-06

A paperback edition of a best-selling tour of the cutthroat world of Wall Street derivatives in the 1990s features a new epilogue and tracks the author's experiences as a successful young Morgan Stanley employee, in an account that traces the period's speculative frenzies and the

ways in which they directly contributed to highly publicized losses. Reprint.

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.

The Sixth Winter - John Gribbin 2013-03-04

Frank Rhind was lucky. He saw the Ice Dancer and lived. The town of Hays died. And still they didn't believe Dr. William Stovin's warnings. For

very many years climatologists had been predicting a change in the world's climate but they always believed that the process would take centuries. Now there was a reason to believe differently. Stovin had staked his career and credibility on trying to persuade the U.S. National Science Council to act, but 15,000 years of warmth had lulled mankind into thinking that climatic history was over. Already it was too late. The new Ice Age had begun. One by one the great northern cities - Chicago, Oslo, Montreal, Moscow, Leningrad - came under siege. Some fell and were evacuated, sending their young, old and sick to crowded areas further south. Crops and animals were destroyed. Governments drew lines of catastrophe across their national maps. Doomsday prophets were in full cry. Technological man was overwhelmed. The world had changed. Some time in the year future the next Ice Age will be triggered off. It could happen in a thousand years' time, or in a century

from now. Or it could, quite literally, happen next winter. This book is fiction only because the events described have not yet happened. But it is not science fiction because all the science in the book is fact. When the year arrives that we see the sixth winter resembling 1792 within the space of a decade or so, then the Ice Age will be with us in a matter of weeks - and it will develop very much as described here.

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.

Not Fade Away - John Gribbin 2012-02-01
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.

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 Blouiding
The Only Three Questions That Count - Kenneth L. Fisher 2010-05-28

The Only Three Questions That Count is the first

book to show you how to think about investing for yourself and develop innovative ways to understand and profit from the markets. The only way to consistently beat the markets is by knowing something others don't know. This book will show you how to do just that by using three simple questions. You'll see why CNBC's Mad Money host and money manager James J. Cramer says, "I believe that reading his book may be the single best thing you could do this year to make yourself a better investor. In *The Only Three Questions That Count*, Ken Fisher challenges the conventional wisdoms of investing, overturns glib theories with hard facts, and blows up complacent beliefs about money and the markets. Ultimately, he says, the key to successful investing is daring to challenge yourself and whatever you believe to be true. Packed with more than 100 visuals, usable tools, and a glossary, *The Only Three Questions That Count* is an entertaining and educational experience in the markets unlike any other,

giving you an opportunity to reap the huge rewards that only the markets can offer.

Science: a History, 1543-2001 - John Gribbin 2002

This title begins with Galileo and takes the reader through to the scientific developments of string theory. It is an accessible narrative history, focusing on the way in which science has progressed by building on what went before, and also on the very close relationship between the progress of science and improved technology.

The Birth of Time - John Gribbin 1999-01-01
"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

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Planet Earth - John R. Gribbin 2012-01-01

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.

I Want to Be a Mathematician: An Automathography - Paul R. Halmos 2020-08-03

Money and Power - William D. Cohan 2011-04-12
The bestselling author of the acclaimed *House of Cards* and *The Last Tycoons* turns his spotlight on to Goldman Sachs and the controversy behind its success. From the outside, Goldman Sachs is a perfect company. The Goldman PR machine loudly declares it to be smarter, more ethical, and more profitable than all of its competitors. Behind closed doors, however, the firm constantly straddles the line between conflict of interest and legitimate deal making, wields significant influence over all levels of government, and upholds a culture of power

struggles and toxic paranoia. And its clever bet against the mortgage market in 2007—unknown to its clients—may have made the financial ruin of the Great Recession worse. *Money and Power* reveals the internal schemes that have guided the bank from its founding through its remarkable windfall during the 2008 financial crisis. Through extensive research and interviews with the inside players, including current CEO Lloyd Blankfein, William Cohan constructs a nuanced, timely portrait of Goldman Sachs, the company that was too big—and too ruthless—to fail.

Andrew Carnegie - Joseph Frazier Wall 1970

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

The Search for Superstrings, Symmetry, and the Theory of Everything - John Gribbin

2009-11-29

No one is more successful than this author when it comes to making the cutting edge of physics more accessible to a broad lay audience. In

Schrodinger's Kittens, he took readers to the eerie world of subatomic particles & waves. Now, he explores the most exciting area of research in physics today: string theory. Following a series of major breakthroughs in the 1990s, physicists are putting together a clearer picture of how subatomic particles work. By hypothesizing particles as a single loop of vibrating "string," they are on the brink of discovering a way to explain all of nature's forces in a single theory. Grandly named "superstrings," & incorporating the ideas of "supersymmetry," these models are the prime candidate for the long sought-for "Theory of Everything." Written in clear & accessible language. *The Search for Superstrings, Symmetry, & the Theory of Everything* brings to life the remarkable scientific research that is on the cusp of radically altering our conception of the universe.

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?

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.

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.

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.

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.