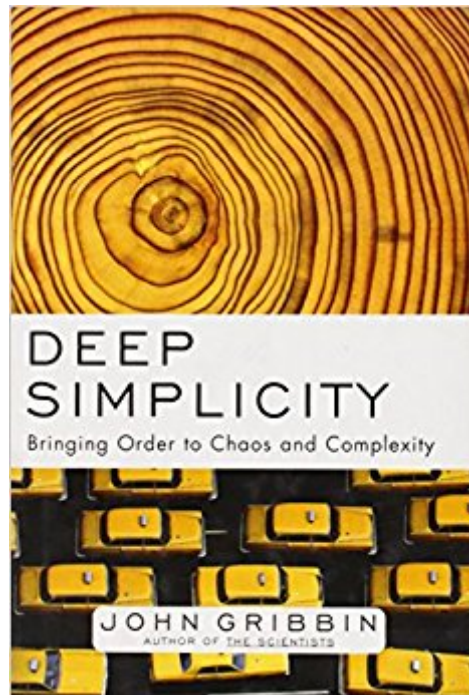


The book was found

Deep Simplicity: Bringing Order To Chaos And Complexity



Synopsis

Over the past two decades, no field of scientific inquiry has had a more striking impact across a wide array of disciplinesâ€”from biology to physics, computing to meteorologyâ€”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 phenomenaâ€”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 howâ€”far from overturning all that has gone beforeâ€”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.

Book Information

Hardcover: 304 pages

Publisher: Random House; Later Printing Used edition (April 5, 2005)

Language: English

ISBN-10: 140006256X

ISBN-13: 978-1400062560

Product Dimensions: 5.7 x 0.9 x 8.6 inches

Shipping Weight: 13.6 ounces (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 starsÂ Â See all reviewsÂ (28 customer reviews)

Best Sellers Rank: #86,687 in Books (See Top 100 in Books) #17 inÂ Books > Science & Math > Physics > Chaos Theory #442 inÂ Books > Science & Math > History & Philosophy

Customer Reviews

+++++This book, by astrophysicist John Gribbin, gives us insight into the concepts of "chaos" and "complexity." Chaos occurs when a small change in the starting conditions of a process produces a big change in the outcome of that process. A complex system is one that is chaotic, and in which the way the system develops feeds back on itself to change the way it is developing. Is there an order or a simplicity that underlies chaos and complexity? According to Gribbin, there is. He states, "the great insight is that chaos and complexity follow simple laws-essentially the same simple laws discovered by Isaac Newton more than three hundred years ago." Gribbin goes on to make this

startling statement: "Chaos begets complexity, and complexity begets life." So what is the theme of this book? Answer: "It is the simplicity that underpins complexity, and thereby makes life possible, that is the theme of this book." The first three chapters tell us about Chaos. They are titled as follows: (1) Order (or simplicity) out of chaos (2) The return of chaos (3) Chaos out of order The next chapter introduces another important concept. It's titled: (4) From chaos to complexity The next two chapters introduce and discuss the most complex system of all. They're entitled: (5) Earthquakes, (mass) extinctions, and emergence (of life) (6) The facts of life The final chapter looks into the biggest question facing science today: "Is there life beyond Earth, elsewhere in our Solar System, or out in the Universe at large?"

[Download to continue reading...](#)

Deep Simplicity: Bringing Order to Chaos and Complexity
Deep Simplicity: Chaos, Complexity and the Emergence of Life (Penguin Press Science)
Simply Complexity: A Clear Guide to Complexity Theory
A Wealth of Common Sense: Why Simplicity Trumps Complexity in Any Investment Plan (Bloomberg)
The Laws of Simplicity (Simplicity: Design, Technology, Business, Life)
Chaos, Gaia, Eros: A Chaos Pioneer Uncovers the Three Great Streams of History
Order, Order, Order - Kids Coding book (Coding Palz - Computer programming for kids)
Christmas Mail Order Angels #1: A collection of 6 historical romantic novellas of mail order brides (Mail Order Angels Collection)
Bringing German to Life: Creative activities for 5-11 (Bringing Languages to Life)
Hidden Order: How Adaptation Builds Complexity (Helix Books)
Biology: A Search For Order in Complexity, 2nd Edition
Sync: How Order Emerges From Chaos In the Universe, Nature, and Daily Life
Digital Asset Management: Content Architectures, Project Management, and Creating Order Out of Media
Chaos: Second Edition for 2016
Order in Chaos: The Memoirs of General of Panzer Troops Hermann Balck
Life's Ratchet: How Molecular Machines Extract Order from Chaos
Deep Learning: Natural Language Processing in Python with Word2Vec: Word2Vec and Word Embeddings in Python and Theano (Deep Learning and Natural Language Processing Book 1)
Deep Learning: Natural Language Processing in Python with GLoVe: From Word2Vec to GLoVe in Python and Theano (Deep Learning and Natural Language Processing)
Deep-Sea Anglerfish and Other Fearsome Fish (Creatures of the Deep)
Deep Learning: Natural Language Processing in Python with Recursive Neural Networks: Recursive Neural (Tensor) Networks in Theano (Deep Learning and Natural Language Processing Book 3)
Deep Wounds, Deep Healing

[Dmca](#)