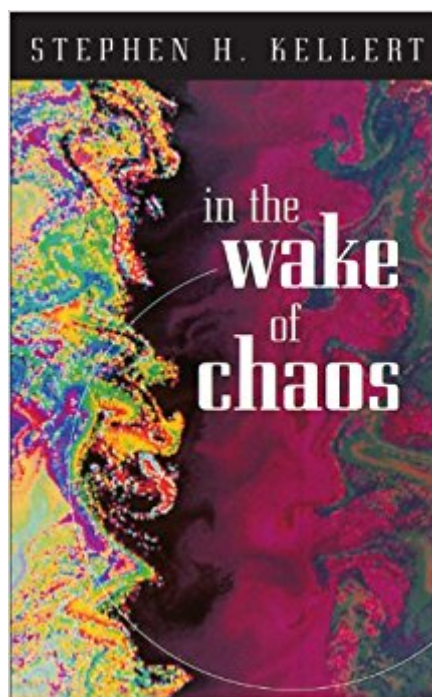


The book was found

In The Wake Of Chaos: Unpredictable Order In Dynamical Systems (Science And Its Conceptual Foundations Series)



Synopsis

Chaos theory has captured scientific and popular attention. What began as the discovery of randomness in simple physical systems has become a widespread fascination with "chaotic" models of everything from business cycles to brainwaves to heart attacks. But what exactly does this explosion of new research into chaotic phenomena mean for our understanding of the world? In this timely book, Stephen Kellert takes the first sustained look at the broad intellectual and philosophical questions raised by recent advances in chaos theory—its implications for science as a source of knowledge and for the very meaning of that knowledge itself.

Book Information

Series: Science and Its Conceptual Foundations series

Paperback: 190 pages

Publisher: University Of Chicago Press; New edition edition (December 15, 1994)

Language: English

ISBN-10: 0226429768

ISBN-13: 978-0226429762

Product Dimensions: 5.2 x 0.8 x 8 inches

Shipping Weight: 7 ounces (View shipping rates and policies)

Average Customer Review: 3.1 out of 5 stars 5 customer reviews

Best Sellers Rank: #511,024 in Books (See Top 100 in Books) #65 in [Books > Science & Math > Physics > Chaos Theory](#) #142 in [Books > Science & Math > Physics > System Theory](#) #2865 in [Books > Science & Math > History & Philosophy](#)

Customer Reviews

This book takes the first sustained look at the broad intellectual and philosophical questions raised by recent advances in chaos theory- its implications for science as a source of knowledge and how we see our world in general.

This got placed without my intention. Something in your website is cheating me. I've been a strong customer but now I can't find any way to get out of that fix and am seriously considering quitting use of your facility. You don't seem to offer any kind of a phone contact that would allow me to address the problem.

excellent

Among the loads of literature on chaos theory, this one is definitely different and the one to check up on.

Kellert examines the challenges that a deterministic view of the world faces in light of chaos and quantum theory. After a brief overview of chaos theory, he starts to describe its impact upon our ability to predict systems. This leads into the challenges presented to the traditional scientific view of the world as being deterministic--like a movie where if one knows the current state of a system and all the applicable laws of nature then one can know the state of the system at any time in the future or past just by working through the differential equations. He then explores how this lack of determinism leads to a new view of how we identify if we "understand" something. Finally, he examines the biases in science that led us to systematically ignore research into chaotic systems. Despite being a small book, Kellert's writing style is dense and verbose. He approaches the dialog from a very formal thesis statements approach where he introduces each chapter, outlines each section, re-introduces the segment, summarizes the segment, then summarizes the chapter. Not that this is a 'bad' approach, but it can be tedious. Kellert often takes three or four sentences to say what could be put more elegantly into a single one. Overall, I would still recommend this book to anyone who reads about chaos theory and then questions the overall implications. Also, it is perfect ammunition for anyone working with traditional scientists who want everything to be put into a neatly wrapped box with a nice tidy bow.

The author investigates the question: with all the research (and hype) in chaos theory, what has been the actual impact on our understanding of the world? I give the book 5 stars for completing its stated mission, being readable and enjoyable, and for not pandering to a lull. Kellert approaches this question from a philosophical, but down-to-earth, view. From the start, this is certainly not a "gee-whiz" hop-on-the-bandwagon book. In fact, the prologue begins: "Chaos theory is not as interesting as it sounds. How could it be?" Yet, Kellert is not out to dismiss chaos theory, but rather to make sense of what the implications of chaos theory are. Unpredictability and determinism are two such topics potentially affected by chaos theory. Quantum mechanics is another topic influenced by chaos theory. And later in the book he ponders the historical question: why did it take so long for nonlinear dynamics (chaotic systems) to come under study? There is very little math. The intended audience seems to be those who have some notion of chaos theory already, and although an introductory chapter is included, it would be helpful to understand conceptually what a Lyapunov

exponent is and what bifurcation means. The book is footnoted sufficiently but not overdone. It is heavily (but not annoyingly) referenced with everyone from Poincare to Prigogine. Despite the years that have passed since initial publication, I do not think this book has become obsolete. Another way to say this is: chaos theory (and its results) is still not the mind-shattering revolution that some have made it out to be. If you have some science and math background and have been asking yourself "So, just what the heck does all this talk about chaos theory really mean??", then this book is for you.

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

In the Wake of Chaos: Unpredictable Order in Dynamical Systems (Science and Its Conceptual Foundations series) [Differential Equations, Dynamical Systems, and an Introduction to Chaos [DIFFERENTIAL EQUATIONS, DYNAMICAL SYSTEMS, AND AN INTRODUCTION TO CHAOS BY Hirsch, Morris W. (Author) Mar-26-2012] By Hirsch, Morris W. (Author) [2012] [Paperback]

Jeaniene Frost Books Checklist and Reading Order : Night Prince series in order, Night Huntress series in order, Broken Destiny series in order and Night Huntress World series in order

Charlaine Harris Schulz Books 2017 Checklist: The Aurora Teagarden Series in Order, Cemetery Girl Series in Order, Harper Connelly Series in Order, Lily Bard Series in Order and more!

The Wonders of the Colorado Desert (Southern California), Vol. 1 of 2: Its Rivers and Its Mountains, Its Canyons and Its Springs, Its Life and Its ... Journey Made Down the Overflow of the Colo

Stephen King Series Reading Order: Series List - In Order: The Dark Tower series, Shining series, Talisman series, The Green Mile series, stand-alone novels, ... (Listastik Series Reading Order Book 30)

W.E.B. Griffin Series Reading Order: Series List - In Order: Presidential Agent series, Badge of Honor series, The Corps series, Honor Bound series, Brotherhood ... (Listastik Series Reading Order Book 14)

Dale Brown Series Reading Order: Series List - In Order: Patrick McLanahan series, Acts of War series, Independent series, Dreamland series (Listastik Series Reading Order Book 24)

J.A. Jance Series Reading Order: Series List - In Order: J.P. Beaumont series, Joana Brady Mysteries series, Ali Reynolds series, Walker Family series (Listastik Series Reading Order Book 13)

Anne McCaffrey Series Reading Order: Series List - In Order: Dragonriders of Pern series, Acorna series, Catteni sequence, Brainships, The Talent series, ... (Listastik Series Reading Order Book 21)

Robert Ludlum Series Reading Order: Series List - In Order: Jason Bourne series, Covert-One series, Janson series, Stand-alone novels (Listastik Series Reading Order Book 15)

Differential Equations, Dynamical Systems, and an Introduction to Chaos, Second Edition (Pure and Applied Mathematics)

Differential Equations, Dynamical Systems, and an Introduction to Chaos, Third Edition

Differential Equations, Dynamical Systems, and an Introduction to Chaos

Chaos: An Introduction to Dynamical

Systems (Textbooks in Mathematical Sciences) Chaos in Dynamical Systems Evolution As Entropy:
Toward a Unified Theory of Biology (Science and Its Conceptual Foundations series) SERIES
READING ORDER: DIANA GABALDON: Reading Order of Entire Outlander universe in reading
order, Outlander series only, Lord John Grey series, short stories, novellas Alexander McCall Smith
Series Reading Order: Series List - In Order: No. 1 Ladies' Detective Agency, 44 Scotland
Street, Isabel Dalhousie, Portuguese Irregular ... (Listastik Series Reading Order Book 31)
Loose-leaf Version for Genetics: A Conceptual Approach 6E & Sapling Plus for Genetics: A
Conceptual Approach 6E (Six-Month Access)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)