

Strange Attractors

Turbulence, Strange Attractors, and Chaos - David Ruelle 1995

The present collection of reprints covers the main contributions of David Ruelle, and coauthors, to the theory of chaos and its applications. Several of the papers reproduced here are classics in the field. Others (that were published in less accessible places) may still surprise the reader. The collection contains mathematical articles relevant to chaos, specific articles on the theory, and articles on applications to hydrodynamical turbulence, chemical oscillations, etc. A sound judgement of the value of techniques and applications is crucial in the interdisciplinary field of chaos. For a critical assessment of what has been achieved

in this area, the present volume is an invaluable contribution.

Strange Attractors #2 - Charles Soule
2016-07-06

As Professor Brownfield gains greater influence over Heller, Heller's obsession with "correcting" New York only grows, terrifying his loved ones.
Strange Attractors - William Sleator 1992-01

Coexistence and Persistence of Strange

Attractors - Antonio Pumarino 2006-11-14

Although chaotic behaviour had often been observed numerically earlier, the first mathematical proof of the existence, with positive probability (persistence) of strange attractors was given by Benedicks and Carleson

for the Henon family, at the beginning of 1990's. Later, Mora and Viana demonstrated that a strange attractor is also persistent in generic one-parameter families of diffeomorphisms on a surface which unfolds homoclinic tangency. This book is about the persistence of any number of strange attractors in saddle-focus connections. The coexistence and persistence of any number of strange attractors in a simple three-dimensional scenario are proved, as well as the fact that infinitely many of them exist simultaneously.

Strange Attractors - Charles Soule 2017-06-20

"Dr. Spencer Brownfield, an elderly, disgraced former professor, believes that for thirty years he has been the sole person standing between New York City and complete cataclysmic collapse via his 'adjustments' - tiny, Butterfly-Effect-like changes he makes to the city. Now, though, he is dying, and disaster looms over New York. Enter Heller Wilson, a brilliant mathematics student, who discovers the theories

of this ailing, perhaps insane, genius. Can Wilson take what little he's learned and save the city in time?" -- page [4] of cover.

Coexistence and Persistence of Strange Attractors - Antonio Pumarino 2014-01-15

Strange Attractors #1 - Charles Soule
2016-06-01

Dr. Brownfield believes that a series of cataclysmic events are coming to New York City, and someone has to keep the city safe after he's gone. Enter Heller Wilson, a brilliant mathematics student, who discovers that his ailing, perhaps insane, mentor has been saving New York City from societal collapse by a series of "adjustments," a la the Butterfly Effect. But now, all signs point toward an impending disaster. Can Wilson take what little he's learned and save the city in time?

Strange Attractors - Edie Meidav 2019

"Has a stunning surprise or lucky encounter ever propelled you in an unanticipated direction? Are

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you doing what you always thought you would be doing with your life or has some unseen magnetism changed your course? And has that redirection come to seem inevitable? Edie Meidav and Emmalie Dropkin asked leading contemporary writers to consider these questions, which they characterize through the metaphor of "the strange attractor," a scientific theory describing "an inevitable occurrence which arises out of chaos." Meidav's introduction and the thirty-five pieces collected here offer imaginative, arresting, and memorable replies to this query, including guidance from a yellow fish, a typewriter repairman, a cat, a bear, a bicycle, and a Buddhist professor of writing. Absorbing and provoking, this is nonfiction to be read in batches and bursts and returned to again and again"--

Strange Attractors - Julien C. Sprott 1993

Chaos and fractals are new mathematical ideas that have revolutionized our view of the world. They have application in virtually every

academic discipline. This book shows examples of the artistic beauty that can arise from very simple equations, and teaches the reader how to produce an endless variety of such patterns. Disk includes a full working version of the program.

Strange Attractors: Signs of Chaos - 1989

Multidimensional Strange Attractors and Turbulence - I. S. Aranson 1989

The authors explore the origin of multidimensional strange attractors and their role in describing turbulence. It includes an analytical estimation of the deminsions of strange attractors for models described by differential-difference equations and discusses the conditions in which space-homogeneous chaos is stable with respect to random perturbations in flow systems.

Chaotic Evolution and Strange Attractors - D. Ruelle 1989-09-07

This book, based on lectures given at the

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Accademia dei Lincei, is an accessible and leisurely account of systems that display a chaotic time evolution. This behaviour, though deterministic, has features more characteristic of stochastic systems. The analysis here is based on a statistical technique known as time series analysis and so avoids complex mathematics, yet provides a good understanding of the fundamentals. Professor Ruelle is one of the world's authorities on chaos and dynamical systems and his account here will be welcomed by scientists in physics, engineering, biology, chemistry and economics who encounter nonlinear systems in their research.

The Lorenz Equations - Colin Sparrow

2012-12-06

The equations which we are going to study in these notes were first presented in 1963 by E. N. Lorenz. They define a three-dimensional system of ordinary differential equations that depends on three real positive parameters. As we vary the parameters, we change the behaviour of the

flow determined by the equations. For some parameter values, numerically computed solutions of the equations oscillate, apparently forever, in the pseudo-random way we now call "chaotic"; this is the main reason for the immense amount of interest generated by the equations in the eighteen years since Lorenz first presented them. In addition, there are some parameter values for which we see "preturbulence", a phenomenon in which trajectories oscillate chaotically for long periods of time before finally settling down to stable stationary or stable periodic behaviour, others in which we see "intermittent chaos", where trajectories alternate between chaotic and apparently stable periodic behaviours, and yet others in which we see "noisy periodicity", where trajectories appear chaotic though they stay very close to a non-stable periodic orbit. Though the Lorenz equations were not much studied in the years between 1963 and 1975, the number of man, woman, and computer hours

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spent on them in recent years - since they came to the general attention of mathematicians and other researchers - must be truly immense.

Strange Attractors - William Sleator 1990

Max finds himself in possession of a time travel device which is eagerly sought by two desperate men, the scientist who invented it and the scientist's alter ego from a different timeline.

Strange Attractors for Periodically Forced Parabolic Equations - Kening Lu 2013-06-28

The authors prove that in systems undergoing Hopf bifurcations, the effects of periodic forcing can be amplified by the shearing in the system to create sustained chaotic behavior. Specifically, strange attractors with SRB measures are shown to exist. The analysis is carried out for infinite dimensional systems, and the results are applicable to partial differential equations.

Application of the general results to a concrete equation, namely the Brusselator, is given.

Strange Attractors - Rebecca Goldstein 1994-02
Viking.

Strange Attractors #4 - Charles Soule

2016-09-07

Heller solicits the help of his fellow New Yorkers in helping to protect the city as he finds himself starting to believe in Dr. Brownfield's bizarre theories.

Strange Attractors - Jeffrey A. Carver

2014-12-02

Shipworld! For John Bandicut, Earth is but a memory. Stranded at the edge of the galaxy in a structure populated with beings from a thousand worlds, Bandicut finds unexpected friends—only to be caught up in a cascade of forces that threaten the Shipworld itself. Confronting an entity known as the boojum, Bandicut discovers greater peril than ever in his journey into the unknown. Volume 2 of The Chaos Chronicles, from the Nebula-nominated author of Eternity's End. Original print publication by Tor Books.

REVIEWS: "A dazzling, thrilling, innovative space opera...probably Carver's best effort to date." —Kirkus Reviews "An irresistibly readable

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story line reinforced by fascinating speculative science. Readers who come this far will be hooked for the series' duration." —Booklist
"Carver's latest novel showcases his own fertile imagination and his talent for creating a host of engagingly sympathetic characters." —Library Journal
"Carver is at his rousing best in this wild ride into the heart of an enigmatic world beyond the Milky Way. This is science fiction out at the frontier. Maybe beyond the frontier." —Jack McDevitt

Strange Attractors - Harriett Hawkins 1995

Strange Attractors - Julien C. Sprott 1993
Chaos and fractals are new mathematical ideas that have revolutionized our view of the world. They have application in virtually every academic discipline. This book shows examples of the artistic beauty that can arise from very simple equations, and teaches the reader how to produce an endless variety of such patterns. Disk includes a full working version of the program.

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