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A large variety of systems exhibit complicated evolution with time; this complicated behaviour is named chaos. Chaos in dynamic

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systems provides scientists, mathematicians and engineers with the basic tools that they need to have a good grasp of chaotic dynamics and this important frequently-encountered behaviour.

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Chaos theory is a branch of mathematics focusing on the study of chaos—states of dynamical systems whose apparently random states of disorder and irregularities are often governed by deterministic laws that are highly sensitive to initial conditions. Chaos theory is an interdisciplinary theory stating that, within the apparent randomness of chaotic complex systems, there are underlying patterns, interconnectedness, constant feedback loops, repetition, self-similarity, fractals, and ...

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Chaos theory - Wikipedia

Chaos - an introduction to dynamical systems / Kathleen Alligood, Tim Sauer, James A. Yorke. p. cm. — (Textbooks in mathematical sciences) Includes bibliographical references and index. 1.

Differentiable dynamical systems. 2. Chaotic behavior in systems. I. Sauer, Tim. II. Yorke, James A. III. Title. IV. Series. QA614.8.A44 1996 003 .85—dc20 95-51304 CIP

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Analysis - Dynamical systems theory and chaos | Britannica

Chaos in Dynamical Systems - August 2002. In Chapter 3 we have concentrated on geometric aspects of chaos. In particular, we have discussed the fractal dimension characterization of strange attractors

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and their natural invariant measures, as well as issues concerning phase space dimensionality and embedding.

Dynamical properties of chaotic systems (Chapter 4 ...

Even simple nonlinear dynamical systems often exhibit seemingly random behavior that has been called chaos. The branch of dynamical systems that deals with the clean definition and investigation of chaos is called chaos theory. History. The concept of dynamical systems theory has its origins in Newtonian mechanics. There, as in other natural sciences and engineering disciplines, the evolution rule of dynamical systems is given implicitly by a relation that gives the state of the system only ...

Dynamical systems theory - Wikipedia

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Hyperbolic systems are precisely defined dynamical systems that exhibit the properties ascribed to chaotic systems. In hyperbolic systems the tangent space perpendicular to a trajectory can be well separated into two parts: one with the points that converge towards the orbit (the stable manifold) and another of the points that diverge from the orbit (the unstable manifold).

[Dynamical system - Wikipedia](#)

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