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In the 20 years since the first edition of this book appeared, the ideas and techniques of nonlinear dynamics and chaos have found application to such exciting new fields as systems biology, evolutionary game theory, and sociophysics.

Nonlinear Dynamics and Chaos: With ... - Steven Strogatz

Steven Strogatz is an applied mathematician who works in the areas of nonlinear dynamics and complex systems, often on topics inspired by the curiosities of everyday life. He loves finding math in places where you 'd least expect it—and then using it to illuminate life 's mysteries, big and small.

Steven Strogatz

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This textbook is aimed at newcomers to nonlinear dynamics and chaos, especially students taking a first course in the subject. The presentation stresses analytical methods, concrete examples, and geometric intuition. Sample Solutions for this Textbook We offer sample solutions for Nonlinear Dynamics and Chaos homework problems.

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Nonlinear Dynamics and Chaos 2nd Edition, Steven H. Strogatz

Nonlinear dynamics and chaos : with applications to physics, biology, chemistry, and engineering. by. Strogatz, Steven H. (Steven Henry) Publication date. 2000. Topics. Chaotic behavior in systems, Dynamics, Nonlinear theories, Science/Mathematics, Chemistry - General, Life Sciences - Biology - General, Physics. Publisher.

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This textbook is aimed at newcomers to nonlinear dynamics and chaos, especially students taking a first course in the subject. The presentation stresses analytical methods, concrete examples, and geometric intuition. The theory is developed systematically, starting with first-order differential equations and their bifurcations, followed by phase plane analysis, limit cycles and their bifurcations, and culminating with the Lorenz equations, chaos, iterated maps, period doubling ...

Nonlinear Dynamics and Chaos | Taylor & Francis
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Nonlinear Dynamics and Chaos: With Applications to Physics ...

In the 1990 ' s, my work focused on nonlinear dynamics and chaos applied to physics, engineering, and biology. Several of these projects dealt with coupled oscillators, such as lasers, superconducting Josephson junctions, and crickets that chirp in unison. In each case, the research involved close collaborations with experimentalists.

Steven Strogatz | Department of Mathematics Cornell Arts ...

Book Description This textbook is aimed at newcomers to nonlinear dynamics and chaos, especially students taking a first course in the subject. The presentation stresses analytical methods, concrete examples, and geometric intuition.

Nonlinear Dynamics and Chaos: With Applications to Physics ...

Nonlinear Dynamics and Chaos by Strogatz is an introduction to the qualitative study of systems of first degree differential equations. Topics included through the first six chapters (which is as far as I have currently read) are bifurcations, stability of fixed points, linearization about fixed points, and many others.

Nonlinear Dynamics and Chaos: With Applications to Physics ...

The chaotic waterwheel with Howard Stone, Division of

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