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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

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loves finding math in places where you'd least expect it—and then using it to illuminate life's mysteries, big and small.

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Edition, Steven H. Strogatz*

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Strogatz, Steven H. (Steven Henry)
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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 ...

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*Nonlinear Dynamics and Chaos /
Taylor & Francis Group*

Nonlinear Dynamics and Chaos: With
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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,

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superconducting Josephson junctions, and crickets that chirp in unison. In each case, the research involved close collaborations with experimentalists.

*Steven Strogatz / Department of
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Book Description This textbook is

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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

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points, linearization about fixed points,
and many others.

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The chaotic waterwheel with Howard
Stone, Division of Applied Sciences,
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