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Strogatz has managed to cover a wide range of concepts in significant detail while providing examples to illustrate his major points. The beginning of the text starts of with one dimensional nonlinear systems of first order (like the logistic equation), and Strogatz outlines the typical framework that one uses to analyze such systems.

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Nonlinear Dynamics And

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Steven H. Strogatz. 4.5 out of 5 stars

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especially students taking a first  
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~~Nonlinear Dynamics and Chaos 2nd Edition, Steven H. Strogatz~~

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Steven Strogatz is an applied mathematician who works in the areas of nonlinear dynamics and complex



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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.

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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,

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Chaos, Nonlinear theories,

Science/Mathematics, Chemistry -

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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 ...~~

"Nonlinear Dynamics and Chaos is an excellent book that effectively demonstrates the power and beauty of the theory of dynamical systems. Its readers will want to learn more."

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About the Author. Steven Strogatz is the Schurman Professor of Applied Mathematics at Cornell University. His honors include MIT's ...

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~~Nonlinear Dynamics and Chaos: With  
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Steven Henry Strogatz (/ˈstroʊˈæts/; born August 13, 1959) is an American mathematician and the Jacob Gould Schurman Professor of Applied Mathematics at Cornell University. He is known for his work on nonlinear systems, including contributions to the study of synchronization in dynamical systems, for his research in a variety of areas of applied mathematics, including mathematical biology and complex network theory, and for his outreach work in the public communication of mathematics.

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Steven H. Strogatz This textbook is aimed at newcomers to nonlinear dynamics and chaos, especially

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students taking a first course in the subject. The presentation stresses analytical methods, concrete examples, and geometric intuition.

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2.2 Fixed Points and Stability Analyze the following equations graphically. In each case, sketch the vector field on the real line, find all the fixed points, classify their stability, and sketch the graph of  $x(t)$ .

2.2.1  $\dot{x} = 4x^2 - 16$

The analytical solution is:

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