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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 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

2.2Fixed 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 $x' = 4x^2 - 16$ Theanalyticalsolutions:

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MATH 412: Nonlinear Dynamics and Chaos (Spring 2015)

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Read Nonlinear Dynamics and Chaos (Strogatz) Chapter 3 Pages 62-70 (really try to understand the bead on a tilted wire example since we won't officially do this in class but it is interesting). Make sure you are reading along with the class and doing well on the quiz at the beginning of class each day! Continue working on Homework Week 2.

Nonlinear Dynamics

It closely follows Strogatz's book, Nonlinear Dynamics and Chaos: With Applications to Physics, Biology, Chemistry, and Engineering. The mathematical treatment is friendly and informal, but still careful. Analytical methods, concrete examples, and geometric intuition are stressed. Watch the videos [te](#)

Teaching — Steven Strogatz

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