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Nonlinear Dynamics and Chaos (Second Edition) by Steven H. Strogatz: Class Hours: Mondays, Wednesdays, and Fridays from 11:00am to 11:50am: Class Location: Science and Mathematics Learning Center 356: Office Hours: Mondays from 2:00pm to 3:00pm and Wednesdays from 2:00pm to 4:00pm: Office Location: Science and Mathematics Learning Center 226

### MATH 412: Nonlinear Dynamics and Chaos (Spring 2015)

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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

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 ...

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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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