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### **Nonlinear Dynamics**

MATH 412: *Nonlinear Dynamics and Chaos* (Spring 2015) Prof. Matthew Pennybacker Overview. This first course in nonlinear dynamics and chaos is aimed at upper-level undergraduate and graduate students. We will use analytical methods, concrete examples, and geometric intuition to develop the basic theory of dynamical systems, starting with first ...

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The role of computers in nonlinear dynamics, a simple example of a numerical solution method for ODEs (improved Euler scheme). Outline of rest of course. Bifurcations in one dimensional systems

### **Nonlinear dynamics and chaos - Harvard University**

Problems and Solutions in *Nonlinear Dynamics, Chaos and Fractals* by Willi-Hans Steeb International School for Scientific Computing at University of Johannesburg, South Africa Charles Villet Department of Applied Mathematics at University of Johannesburg, South Africa Yorick Hardy Department of Mathematical Sciences at University of South Africa ...

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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:

### **NLD exercises and solutions - Weebly**

Office Hours. Professor: Mark Schumaker MW 2:10-3:30pm and by appointment. Neill 209. email: schumaker@wsu.edu. Homework Assignments for Math 415

### **Homework Assignments for Math 415 - College of Arts and ...**

APMA 1360. Spring 2014 Instructor: John Gemmer Office Hours: Tuesday 9:00-11:00, Thursday 9:00-11:00 Lecture: MWF: 1:00-1:50, Barus and Holley 165 Textbooks ...

### **APMA 1360 - Applied mathematics**

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Math 383/683. Spring 2017 Instructor: John Gemmer Office: Manchester #360 Phone: 336-758-5386 E-mail: gemmerj@wfu.edu Office Hours: Tuesday 3-5, Wednesday 1-2, Thursday 2-4 Lecture: MWF: 9:00-9:50, Manchester 124 Textbooks: Nonlinear Dynamics and Chaos 2nd Edition, S.H. Strogatz, 2014. Course Handouts:

### **Math 383/683 - Wake Forest University**

Lecture Notes: Transparencies from Spring 2003: These notes closely follow the text by Strogatz, and are numbered according to the chapters in that book.

### **SFU Math 467, Dynamical Systems: Documents and Homework**

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### **(PDF) Nonlinear Dynamics and Chaos - researchgate.net**

Nonlinear Dynamics and Chaos Steven Strogatz's written introduction to the modern theory of dynamical systems and differential equations, with many novel applications." —Robert L Devaney, Boston University and author of A First Course in Chaotic Dynamical Systems This textbook is aimed at newcomers to nonlinear dynamics and chaos,

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