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Introduction to

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Steven Strogatz -

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Bifurcations in two  
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Part 4 Nonlinear Dynamics: Feigenbaum and Universality

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chaos, fractal and physics  
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Introduction How to  
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21: Hopf Bifurcations

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Introduction to System

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chaos, especially students taking a first course in the subject. The presentation stresses analytical

methods, concrete examples, and geometric intuition. The theory is developed systematically, starting with first-order differential equations and their bifurcations, followed by phase plane analysis, limit cycles and their bifurcations, and

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culminating with the  
Lorenz ...

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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

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the graph of  $x(t)$ . 2.2.1

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

The analytical solution is:

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sets (no solutions) Exams

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Description. This

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focuses on nonlinear

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applications. It takes an intuitive approach with emphasis on geometric thinking, computational and analytical methods and makes extensive use of demonstration software.

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MIT ...

This course of 25  
lectures, filmed at

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Cornell University in  
Spring 2014, is intended  
for newcomers to  
nonlinear dynamics and  
chaos. It closely follows  
Prof. ...

Nonlinear Dynamics and  
Chaos - Steven Strogatz,  
Cornell ...

S. Strogatz, Nonlinear  
Dynamics and Chaos  
(Addison-Wesley, 1994)

S. Neil Rasband,

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Chaotic Dynamics of  
Nonlinear Systems

(Wiley, 1990) J.

Guckenheimer and P.

Holmes, Nonlinear

Oscillations, Dynamical

Systems, and Bi-

furcations of Vector

Fields (Springer, 1983)

- E. A. Jackson,

Perspectives of Nonlinear

Dynamics, 2 vols.

(Cambridge, 1991)

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Lecture Notes on  
Nonlinear Dynamics (A  
Work in Progress)

Does anybody know  
where I can find the  
solutions of the exercises  
included in the Strogatz  
book on Nonlinear  
Dynamics and Chaos?  
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Fractals aims to be the

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The textbook and

accompanying Student

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aimed at newcomers to

nonlinear dynamics and

chaos, especially students

taking a first course in the

subject. Complete with

graphs and worked-out

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solutions, this manual demonstrates techniques for students to analyze differential equations, bifurcations, chaos, fractals, and other subjects Strogatz explores in his popular book.

Student Solutions  
Manual for Nonlinear  
Dynamics and Chaos ...  
Existence, uniqueness  
and smooth dependence

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of solutions of ODE's on initial conditions and parameters. 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 (3 weeks)

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chaos - Harvard  
Dynamics And  
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This textbook is aimed at newcomers to nonlinear

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Applications To Physics

...

Dynamical systems  
theory (also known as  
nonlinear dynamics,  
chaos theory) comprises  
methods for analyzing

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differential equations and iterated mappings. It is a mathematical theory that draws on analysis, geometry, and topology – areas which in turn had their origins in Newtonian mechanics – and so should perhaps be viewed as a natural development within mathematics, rather than the ...

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Oteven 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

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Chapter 1 (Overview of Nonlinear Dynamics and Chaos) 14: Sections 2.0-2.2 (Introduction to Flows on the Line, Fixed Points and Stability) 16: Sections 2.4 (Linear Stability Analysis) 19:

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Martin Luther King, Jr.

Day: 21: Sections 2.5-2.7

(Existence and  
Uniqueness,

Impossibility of  
Oscillations, Potentials)

23

MATH 412: Nonlinear

Dynamics and Chaos

(Spring 2015)

Nonlinear evolution  
equations widely describe  
phenomena in various

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fields of science, such as plasma, nuclear physics, chemical reactions, optics, shallow water waves, fluid dynamics, signal processing, and image processing. In the present work, the derivation and analysis of Lie symmetries are presented for the time-fractional Benjamin – Bona&#x2013;Mahony equation (FBBM) with

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Numerical solutions of

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approach for the

numerical solution of

fractional differential

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equations, ” Nonlinear  
Dynamics, vol. 29, no.  
1 – 4, pp. 3 – 22, 2002.

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Order HIV Model

Nonlinear dynamics and  
chaos by Steven Strogatz  
(Westview Press).

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English Lectures:  
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R93 and Thursdays  
08.15-10.00 in E5-103.

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August 19. ... Graphical  
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equations. Phase portraits  
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