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dynamics and 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,

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2.2 Fixed Points and Stability Analyze
the following equations graphically. In

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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 -
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Assignments: problem sets (no solutions) Exams (no solutions)
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This course of 25 lectures, filmed at
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intended for newcomers to nonlinear

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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, Chaotic Dynamics of

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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
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of short communications, regular papers, and review papers) concerning the fundamentals of the following subjects:

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The textbook and accompanying

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fractals, and other subjects Strogatz explores in his popular book.

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Existence, uniqueness and smooth
dependence of solutions of ODE's on
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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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Nonlinear Dynamics And Chaos: With
Applications To Physics ...
Dynamical systems theory (also
known as nonlinear dynamics, chaos

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theory) comprises methods for analyzing 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

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History of dynamical systems -
Scholarpedia

Nonlinear Dynamics and Chaos
Steven Strogatz's written introduction
to the modern theory of dynamical
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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
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Line, Fixed Points and Stability) 16:
Sections 2.4 (Linear Stability Analysis)
19: Martin Luther King, Jr. Day: 21:
Sections 2.5-2.7 (Existence and
Uniqueness, Impossibility of

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MATH 412: Nonlinear Dynamics and
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Nonlinear evolution equations widely describe phenomena in various fields of science, such as plasma, nuclear physics, chemical reactions, optics,

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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–Mahony equation (FBBM) with the Riemann–

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numerical solution of fractional differential equations,” *Nonlinear Dynamics*, vol. 29, no. 1–4, pp. 3–22, 2002.

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Steven Strogatz (Westview Press).

Paperback can be purchased at Tapir bookstore (426 NOK). Dictionary

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First lecture Tuesday August 19. ...

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