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Chaos, Stability, and the

Jacobian matrix *Social*

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Intro to bifurcation theory

~~L1.2 Linearity and nonlinear theories. Schrödinger's equation.~~

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Part 1 *Nonlinear Dynamical
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Problems and Solutions in
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and ...

If we let $a = a_r$, $b = b_r$,
and $s = s_r$, then the dynamics

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of the scalar projections

$$\begin{aligned} (a;b) \text{ obeys, } \quad & \frac{d}{dt} a = b(s \\ & ab); \quad \frac{d}{dt} b = a(s - ab): \quad (8) \end{aligned}$$

Thus our ability to decouple
the connectivity modes
yields a dramatically
simplified two dimensional
non-linear system.

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Exact solutions to the
nonlinear dynamics of
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2.2 Fixed Points and
Stability Analyze the
following equations

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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 $x' =$

$$4x^2 - 16$$

The analytical solution is:

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34: Linear versus nonlinear

systems. 2nd order equation

as a coupled system of two

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first-order equations
(damped oscillator).

TFY4305 Nonlinear dynamics
fall 2014

Nonlinear Dynamics and Chaos
Steven Strogatz's written

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Introduction to the modern
theory of dynamical systems
and dif- ferential
equations, with many novel
applications." –Robert L
Devaney, Boston University
and author of A First Course
in Chaotic Dynamical Systems

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This textbook is aimed at newcomers to nonlinear dynamics and chaos,

Electrical Engineering -
HOME

Strogatz book exercise

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olutions Does anybody know
where I can find the
solutions of the exercises
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Chaos Steven H. Equations. Topics included through the first six chapters (which is as far as I have currently read) are bifurcations, stability of

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...

has. $u = \frac{1}{x} + C.$

$$\{\displaystyle u = \frac{1}{x} + C.$$

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$\{x+C\}$ as a general solution (and also $u = 0$ as a particular solution, corresponding to the limit of the general solution when C tends to infinity). The equation is nonlinear because it may be written

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as. $\frac{du}{dx} + u^2 = 0$.

$$\left\{\frac{du}{dx}\right\} + u^2 = 0$$

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

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...

Research in nonlinear
dynamical systems in
particular is interested in

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Qualitative changes of the solution type as parameters are changed (bifurcations) and in chaotic behavior of solutions. Applications include atmospheric science, the behavior of fluids, social and biological

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