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bifurcation. Bifurcation
diagrams.

Steven Strogatz -
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Chemical Oscillators
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Synchronized **Chaos**
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Communications, with
Kevin Cuomo, MIT
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Steven Strogatz:
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Division of Applied
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***The Joy of x : A
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through the right lens,
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the universal language
of math connects to
literature,
philosophy, ...

***An Introduction to
Chaos Theory with
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The Lorenz Attractor is
likely the most
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Theory. This video
introduces the topics
and their ...

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Steven Strogatz and I
talk about a famous
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***Introduction to
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Greetings, Youtube!
This is the first video in
my series on
Nonlinear Dynamics.
Comment below if you
have any questions,

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and if ...

Chaos and Butterfly Effect - Sixty

Symbols The butterfly effect is associated with the unpredictable world of **chaos**... Two of our physicists have a chat about it. They are ...

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by Prof. S. Banerjee, Department of Electrical Engineering, ...

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analysis of period**

doubling Superstable fixed points and cycles. Intuition behind renormalization, based on self-similarity. Renormalization transformation.

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**Overdamped bead
on a rotating hoop**

Equations of motion.
When can we neglect
the second derivative?
Dimensional analysis
and scaling. A singular
limit. Reading: ...

**MAE5790-8 Index
theory and
introduction to limit
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(with respect to a given
vector field). Properties
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systems with one
degree of freedom.

Particle in a double
well. Symmetry.

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***Bifurcations in two
dimensional systems***

Bifurcations of fixed
points: saddle-node,
transcritical, pitchfork.
Hopf bifurcations.
Other bifurcations of
periodic orbits.
Reading: ...

**MAE5790-17 Chaos
in the Lorenz**

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Liapunov function.

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