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field of dynamical systems.
Both are studies of smooth
systems, focusing on
properties that seem to be
manifestly non-smooth.
Bifurcation theory is
concerned with the sudden
changes that occur in a

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system when one or more
parameters are varied.

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Bifurcation theory and
catastrophe theory are two

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Content: Preface Chapter 1

Bifurcations of Equilibria

1 Families and Deformations

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1.1 Families of Vector
Fields 1.2 The Space of
Jets 1.3

Dynamical Systems V: Bifurcation Theory and Catastrophe Theory

Definition. Bifurcation

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theory refers to the study of qualitative changes to the state of a system as a parameter is varied. It can be applied to steady state systems, or to dynamical systems and can be understood best at the level

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of a mathematical model,
although recent techniques
allow the method to be
applied to experiments with
feedback control.

**Dynamical Systems Theory,
Bifurcation Analysis |**

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Bifurcation theory is the mathematical study of changes in the qualitative or topological structure of a given family, such as the integral curves of a family of vector fields, and the

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solutions of a family of differential equations. Most commonly applied to the mathematical study of dynamical systems, a bifurcation occurs when a small smooth change made to the parameter values of a

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system causes a sudden
'qualitative' or topological
change in its behavior.

Bifurcations occur in both
continuous

**Bifurcation theory -
Wikipedia**

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Introduction to Dynamical Systems John K. Hunter

The purpose of the present chapter is once again to show on concrete new examples that chaos in one-dimensional unimodal mappings, dynamical chaos in

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systems of ordinary
differential equations,
diffusion chaos in systems
of the equations with
partial derivatives and
chaos in Hamiltonian and
conservative systems are
generated by cascades of

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bifurcations under universal
bifurcation Feigenbaum ...

Bifurcation Theory of Dynamical Chaos | IntechOpen

In dynamical systems, a
bifurcation occurs when a
small smooth change made to

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the parameter values (the bifurcation parameters) of a system causes a sudden "qualitative" or topological change in its behaviour. Generally, at a bifurcation, the local stability properties of equilibria,

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periodic orbits or other
invariant sets changes. 1

An introduction to bifurcation theory

The above examples show some
of the successes of
bifurcation theory and

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dynamical systems approaches more generally in solving biological puzzles. They provide insights that are not possible from a biophysical or simulation approach. Beyond that, Fig. 2 hints at a deeper level of

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theory than the study of particular bursting systems. All of the examples we have considered arise from a common substrate with modest changes in parameters.

Dynamical systems theory in

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As a parameter is varied, the dynamical systems may have bifurcation points where the qualitative behavior of the dynamical system changes. For example, it may go from having only

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periodic motions to
apparently erratic behavior,
as in the transition to
turbulence of a fluid .

Dynamical system - Wikipedia

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Dynamical systems theory

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(also known as nonlinear dynamics, chaos theory) comprises methods for analyzing differential equations and iterated mappings. It is a mathematical theory that draws on analysis, geometry,

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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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History of dynamical systems

– Scholarpedia

The phase portrait of a dynamical system varies with the parameters. A bifurcation occurs when, as the parameter (s) pass through a critical value, a

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phase portrait that is
topologically...
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