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Bifurcation Theory of Dynamical Chaos | IntechOpen
A general introduction to nonlinear dynamical systems, with an emphasis on applications, is in [10]. An introduction to bifurcation theory in continuous and

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discrete dynamical systems is [6]. For a rigorous but accessible introduction to chaos in discrete dynamical systems, see [3].

Dynamical Systems - Springer Bifurcation Theory of Chaotic and Quasiperiodic Systems. Bifurcation theory has intensively investigated varied topics that bear on chaotic and quasiperiodic dynamics. Much of this theory has been developed in the context of discrete time dynamical systems defined by iteration of mappings.

Bifurcation - Scholarpedia x Preface to the First Edition. ear dynamical

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systems or systems theory. Certain classical results, such as Andronov-Hopf and homoclinic bifurcation in two-dimensional systems, are presented in great detail, including self-contained proofs.

Dynamical system - Wikipedia Definition. Bifurcation 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 of a mathematical model, although recent techniques

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allow the method to be applied to experiments with feedback control.

*Dynamical Systems V:
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Bifurcation theory and catastrophe theory are two of the best known areas within the 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 system when one or more parameters are varied.

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Bifurcation theory. Most
commonly applied to the
mathematical study of
dynamical systems, a*

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bifurcation occurs when a small smooth change made to the parameter values (the bifurcation parameters) of a system causes a sudden 'qualitative' or topological change in its behaviour. Bifurcations occur in both continuous systems (described by ODEs, ...

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*Dynamical Systems V:
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*Introduction to Dynamical
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*Dynamical systems are a
fundamental part of chaos
theory, logistic map*

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dynamics, bifurcation theory, the self-assembly and self-organization processes, and the edge of chaos concept.

*Bifurcation theory -
Wikipedia*

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 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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*Dynamical Systems Theory,
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Bifurcation theory is concerned with the description of the topological variation of the orbit structure of dynamical systems which depend on a parameter. This chapter discusses several concepts of stability which may be an appropriate guide for a systematic future study of bifurcations.

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