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#### **Devaney Books - BU**

MTH715U/MTHM021: Introduction to Dynamical Systems. to evaluate the number and the stability of periodic orbits of one-dimensional maps. to compute invariant distributions and Lyapunov exponents of piecewise linear Markov maps. to determine whether simple one dimensional maps are topologically conjugate.

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Chaos as a spontaneous breakdown of topological supersymmetry. In continuous time dynamical systems, chaos is the phenomenon of the spontaneous breakdown of topological supersymmetry which is an intrinsic property of evolution operators of all stochastic and deterministic (partial) differential equations.

#### Chaos theory - Wikipedia

Robert L. Devaney. In his 1989 book An Introduction to Chaotic Dynamical Systems, Devaney defined a system to be chaotic if it has sensitive dependence on initial conditions, it is topologically transitive (for any two open sets, some points from one set will eventually hit the other set), and its periodic orbits form a dense set.

#### Robert L. Devaney - Wikipedia

PDF | On Feb 1, 1994, Mukul Majumdar and others published Chaotic Dynamical Systems: An Introduction.

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[Smi07] nicely embeds the modern theory of nonlinear dynamical systems into the general sociocultural context. It also provides a very nice popular science introduction to basic concepts of dynamical systems theory, which to some extent relates to the path we will follow in this course.

#### Introduction to Dynamical Systems - QMUL Maths

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#### **Dynamical Systems and Chaos - Johns Hopkins University**

Introduction to Dynamical Systems John K. Hunter Department of Mathematics, University of California at Davis. c John K. Hunter, 2011. Contents Chapter 1. Introduction 1 1.1. First-order systems of ODEs 1 1.2. Existence and uniqueness theorem for IVPs 3 1.3. Linear systems of ODEs 7 ... Solutions of chaotic systems are sensitive to small ...

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