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Dr. John Guckenheimer's research has focused on three areas - neuroscience, algorithms for periodic orbits, and dynamics in systems with multiple time scales. ... Nonlinear Oscillations, Dynamical Systems and Bifurcation of Vector Fields (with Philip Holmes), Springer-Verlag, 1983, 453 pp.

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Proceedings of the Symposium on Dynamical Systems and Nonlinear Oscillations. Symposium on Dynamical Systems and Nonlinear Oscillations, Kyoto, Japan, 10 – 13 July 1985. ... Dynamical Systems on Dragon Domains (M Mizutani & S Ito) Another Construction of Counterexamples to Coleman's Conjecture (N Oka)

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John Guckenheimer - Wikipedia

Nonlinear dynamical systems, describing changes in variables over time, may appear chaotic, unpredictable, or counterintuitive, contrasting with much simpler linear systems.

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Introduction: Differential Equations and Dynamical Systems 1.0. Existence and Uniqueness of Solutions 1.1. The Linear System $x = Ax$ 1.2. Flows and Invariant Subspaces 1.3. The Nonlinear System $x = f(x)$ 1.4. Linear and Nonlinear Maps 1.5. Closed Orbits, Poincare Maps, and Forced Oscillations 1.6. Asymptotic Behavior 1.7.

MAE5790-1 Course introduction and overview

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Nonlinear Oscillations, Dynamical Systems, and Bifurcations of Vector Fields "The book is rewarding reading . . . The elementary chapters are suitable for an introductory graduate course for mathematicians and physicists . . . Its excellent survey of the mathematical literature makes it a valuable reference."

Nonlinear system - Wikipedia

• Nonlinear Oscillations, Dynamical Systems, and Bifurcations of Vector Fields (Applied Mathematical Sciences Vol. 42) by John Guckenheimer and Philip Holmes, Springer, 1983. In many ways a precursor to our current textbook. A great reference text. 1.4 Other

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