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This textbook presents a systematic study of the qualitative and geometric theory of nonlinear differential equations and dynamical systems. Although the main topic of the book is the local and global behavior of nonlinear systems and their bifurcations, a thorough treatment of linear systems is given at the beginning of the text.

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everywhere, and software packages that can be used to approximate solutions of differential equations and view the results graphically are widely available. As a consequence, the analysis of nonlinear systems of differential equations is much more accessible than it once was. The discovery of such compli-

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The course will develop a basic theory of ordinary differential equations including the existence & uniqueness of solutions of the initial value

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problem, dependence on initial conditions, theory of linear differential equations and systems, dynamical systems approach to autonomous differential equations local & global behavior, Hartman-Grobman ...

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Differential Equations and Dynamical Systems. International Journal for Theory, Real World Modelling and Simulations. Journal information Editor-in-Chief. ... The Nonexistence of Positive Solutions for A Coupled System of Non-separated Boundary Value Problems Authors. Sabbavarapu Nageswara Rao; Content type: Original Research Published: ...

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and periodic solutions are discussed as well. Finally, there is an introduction to chaos. Beginning with the basics for iterated interval maps and ending with the Smale-Birkhoff theorem and the Melnikov method for homoclinic orbits. Keywords and phrases. Ordinary differential equations, dynamical systems, Sturm-Liouville equations.

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