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equations with emphasis on the dynamical systems point of view. How-ever, it also covers some classical topics such as differential equations in the complex plane and boundary value (Strum{Liouville) problems. It only requires some basic knowledge from calculus, complex functions, and linear algebra which should be covered in the usual courses.

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Jacobian matrix and determinant - Wikipedia

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Introduction 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.

Differential Equations and Dynamical Systems | SpringerLink

This book provides an introduction to ordinary differential equations and dynamical systems. We start with some simple examples of explicitly solvable equations. Then we prove the fundamental results concerning the initial value problem: existence, uniqueness, extensibility, dependence on initial conditions.

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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-cated dynamical systems as the horseshoe map, homoclinic tangles, and the

DIFFERENTIAL EQUATIONS, TO CHAOS

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