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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 | Lawrence ... The course will mostly deal with the study of the long term behaviour of the solutions of planar differential equations bot linear and non-linear. The text that will be used is: Morris W. Hirsch, Stephen Smale and Robert L. Devaney Differential Equation, Dynamical Systems & An Introductory to Chaos, 2nd ed., Elsevier The syllabus can be found here. MATH 4541 Fall 2010 - People In mathematics, stability theory addresses the stability of solutions of differential equations and of trajectories of dynamical systems under small perturbations of initial conditions. The heat equation, for example, is a stable partial differential equation because small perturbations of initial data lead to small variations in temperature at a later time as a result of the maximum principle. Stability theory - Wikipedia Dynamical Systems and Nonlinear Phenomena. In recent years, there has been an explosion of interest in the study of nonlinear waves and dynamical systems with analytical results, often motivated by the use of computers. The faculty in the Department of Applied Mathematics are actively and intensively involved in this growing field. Applied Mathematics | University Catalog 2016-2017 ... Differential Dynamical Systems Revised Edition (Jan 2017) ISBN 9780898716351 Differential equations are the basis for models of any physical systems that exhibit smooth change. This book combines much of the material found in a traditional course on ordinary differential equations with an introduction to the more modern theory of dynamical systems. James D. Meiss - Applied Mathematics Differential

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