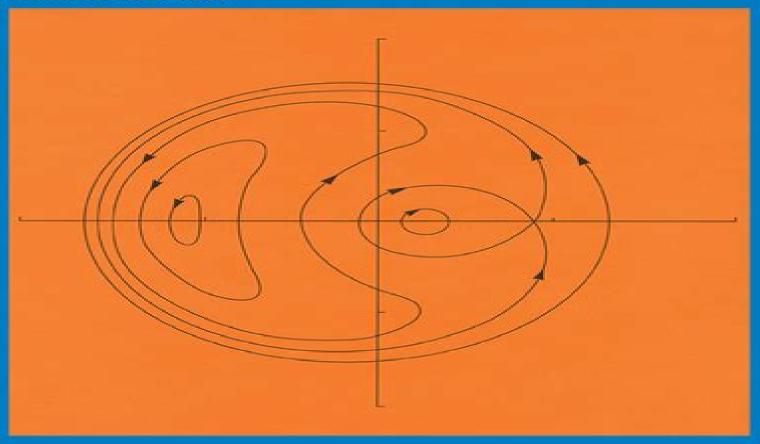
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Raimond A. Struble, 2017-11-29 Detailed treatment covers existence and uniqueness of a solution of the initial value problem properties of solutions properties of linear systems stability of nonlinear systems and two dimensional systems 1962 edition

Modeling by Nonlinear Differential Equations Paul E. Phillipson, Peter Schuster, 2009 This book aims to provide mathematical analyses of nonlinear differential equations which have proved pivotal to understanding many phenomena in physics chemistry and biology Topics of focus are autocatalysis and dynamics of molecular evolution relaxation oscillations deterministic chaos reaction diffusion driven chemical pattern formation solitons and neuron dynamics Included is a discussion of processes from the viewpoints of reversibility reflected by conservative classical mechanics and irreversibility introduced by the dissipative role of diffusion Each chapter presents the subject matter from the point of one or a few key equations whose properties and consequences are amplified by approximate analytic solutions that are developed to support graphical display of exact computer solutions back cover Nonlinear Ordinary Differential Equations R. Grimshaw, 2017-10-19 Ordinary differential equations have long been an important area of study because of their wide application in physics engineering biology chemistry ecology and economics Based on a series of lectures given at the Universities of Melbourne and New South Wales in Australia Nonlinear Ordinary Differential Equations takes the reader from basic elementary notions to the point where the exciting and fascinating developments in the theory of nonlinear differential equations can be understood and appreciated Each chapter is self contained and includes a selection of problems together with some detailed workings within the main text Nonlinear Ordinary Differential Equations helps develop an understanding of the subtle and sometimes unexpected properties of nonlinear systems and simultaneously introduces practical analytical techniques to analyze nonlinear phenomena This excellent book gives a structured systematic and rigorous development of the basic theory from elementary concepts to a point where readers can utilize ideas in nonlinear differential equations

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suitable spaces for studying functional equations This book is a valuable resource for mathematicians Monotone Iterative Techniques for Nonlinear Differential Equations G. S. Ladde, V. Lakshmikantham, A. S. Vatsala, 1985 **Invertible Point** Transformations And Nonlinear Differential Equations Willi-hans Steeb, 1993-06-04 The invertible point transformation is a powerful tool in the study of nonlinear differential and difference equations. This book gives a comprehensive introduction to this technique Ordinary and partial differential equations are studied with this approach The book also covers nonlinear difference equations The connections with Lie symmetries the Painlev property first integrals and the Cartan equivalence method are discussed in detail Most of the evaluations are checked with the computer language REDUCE the book includes 30 REDUCE programs A short introduction to the jet bundle formalism is given **Numerical Solutions of Nonlinear Differential Equations** Mathematics Research Center (United States. Army),1966 **Nonlinear Ordinary Differential Equations** Dominic William Jordan, Peter Smith, 2023 An ideal companion to Nonlinear Ordinary Differential Equations Fourth Edition this text contains over 500 problems and solutions in nonlinear differential equations many of which can be adapted for independent coursework and self study **Implicit Partial Differential Equations** Bernard Dacorogna, Paolo Marcellini, 1999-08-01 Nonlinear partial differential equations has become one of the main tools of mod ern mathematical analysis in spite of seemingly contradictory terminology the subject of nonlinear differential equations finds its origins in the theory of linear differential equations and a large part of functional analysis derived its inspiration from the study of linear pdes In recent years several mathematicians have investigated nonlinear equations particularly those of the second order both linear and nonlinear and either in divergence or nondivergence form Quasilinear and fully nonlinear differential equations are relevant classes of such equations and have been widely examined in the mathematical literature In this work we present a new family of differential equations called implicit partial differential equations described in detail in the introduction c f Chapter 1 It is a class of nonlinear equations that does not include the family of fully nonlinear elliptic pdes We present a new functional analytic method based on the Baire category theorem for handling the existence of almost everywhere solutions of these implicit equations. The results have been obtained for the most part in recent years and have important applications to the calculus of variations nonlin ear elasticity problems of phase transitions and optimal design some results have not been published elsewhere

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