

Hartmut Logemann  
Eugene P. Ryan

# Ordinary Differential Equations

Analysis, Qualitative Theory and  
Control



Springer

# Ordinary Differential Equations Analysis Qualitative Theory And Control Springer Undergraduate Mathematics

**Jin-Ying Zhang**

## **Ordinary Differential Equations Analysis Qualitative Theory And Control Springer Undergraduate Mathematics:**

**Ordinary Differential Equations** Hartmut Logemann, Eugene P. Ryan, 2014-07-08 The book comprises a rigorous and self contained treatment of initial value problems for ordinary differential equations. It additionally develops the basics of control theory which is a unique feature in current textbook literature. The following topics are particularly emphasised: existence uniqueness and continuation of solutions, continuous dependence on initial data, flows, qualitative behaviour of solutions, limit sets, stability theory, invariance principles, introductory control theory, feedback and stabilization. The last two items cover classical control theoretic material such as linear control theory and absolute stability of nonlinear feedback systems. It also includes an introduction to the more recent concept of input to state stability. Only a basic grounding in linear algebra and analysis is assumed. Ordinary Differential Equations will be suitable for final year undergraduate students of mathematics and appropriate for beginning postgraduates in mathematics and in mathematically oriented engineering and science.

**Set-Valued, Convex, and Nonsmooth Analysis in Dynamics and Control** Rafal K. Goebel, 2024-06-26 Set valued analysis, convex analysis and nonsmooth analysis are relatively modern branches of mathematical analysis that have become increasingly relevant in current control theory and control engineering literature. This book serves as a broad introduction to analytical tools in these fields and to their applications in dynamical and control systems and is the first to cover these topics with this scope and at this level. Both continuous time and discrete time multivalued dynamics modeled by differential and difference inclusions are considered. Set Valued Convex and Nonsmooth Analysis in Dynamics and Control: An Introduction is aimed at graduate students in control engineering and applied mathematics and researchers in control engineering who have no prior exposure to set valued convex and nonsmooth analysis. The book will also be of interest to advanced undergraduate mathematics students and mathematicians with no prior exposure to the topic. The expected mathematical background is a course on nonlinear differential equations, dynamical systems and a course on real analysis. Knowledge of some control theory is helpful but not essential.

## **Ordinary Differential Equations And Applications**

Enrique Fernandez-cara, 2023-07-26 Differential equations can bring mathematics to life, describing phenomena originating in physics, chemistry, biology, economics, and more. Used by scientists and engineers alike, differential equations are also the starting point of much purely mathematical activity. They also play a role in the formulation and resolution of problems in harmonic analysis, differential geometry, and probability calculus. A large part of functional analysis has therefore been motivated by the need to solve questions in the analysis of differential systems, as with numerical analysis. Differential equations are doubly relevant: they are significant in many areas of mathematics and an important machinery for applying mathematics to real world problems. This book therefore aims to provide a rigorous introduction to the theoretical study of differential equations and to demonstrate their utility with applications in many fields. Ordinary Differential Equations and Applications originates from several courses given by the author for decades at the University of Seville. It aims to bring

together rigorous mathematical theory and the rich variety of applications for differential equations. The book examines many aspects of differential equations: their existence, uniqueness and regularity, alongside their continuous dependence on data and parameters. Delving into permanent interpretation of the laws of differential equations, we also look at the role of data and how their solutions behave. Each chapter finishes with a collection of exercises, many of which also contain useful hints.

**Stability and Stabilization** William J. Terrell, 2009-02-15 Stability and Stabilization is the first intermediate level textbook that covers stability and stabilization of equilibria for both linear and nonlinear time invariant systems of ordinary differential equations. Designed for advanced undergraduates and beginning graduate students in the sciences, engineering and mathematics, the book takes a unique modern approach that bridges the gap between linear and nonlinear systems. Presenting stability and stabilization of equilibria as a core problem of mathematical control theory, the book emphasizes the subject's mathematical coherence and unity and it introduces and develops many of the core concepts of systems and control theory. There are five chapters on linear systems and nine chapters on nonlinear systems, an introductory chapter, a mathematical background chapter, a short final chapter on further reading, and appendixes on basic analysis, ordinary differential equations, manifolds and the Frobenius theorem and comparison functions and their use in differential equations. The introduction to linear system theory presents the full framework of basic state space theory, providing just enough detail to prepare students for the material on nonlinear systems. Focuses on stability and feedback stabilization. Bridges the gap between linear and nonlinear systems for advanced undergraduates and beginning graduate students. Balances coverage of linear and nonlinear systems. Covers cascade systems. Includes many examples and exercises.

[Introduction to the Qualitative Theory of Differential Systems](#) Jaume Llibre, Antonio E. Teruel, 2013-10-30 The book deals with continuous piecewise linear differential systems in the plane with three pieces separated by a pair of parallel straight lines. Moreover, these differential systems are symmetric with respect to the origin of coordinates. This class of systems, driven by concrete applications, is of interest in engineering, in particular in control theory and the design of electric circuits. By studying these particular differential systems, we will introduce the basic tools of the qualitative theory of ordinary differential equations, which allow us to describe the global dynamics of these systems, including the infinity. The behavior of their solutions, their parametric stability or instability and their bifurcations are described. The book is very appropriate for a first course in the qualitative theory of differential equations or dynamical systems, mainly for engineers, mathematicians and physicists.

[The Bulletin of Mathematics Books](#), 1992 **MATHEMATICAL MODELS - Volume I** Jerzy A. Filar, Jacek B.

Krawczyk, 2009-09-19 Mathematical Models is a component of Encyclopedia of Mathematical Sciences in the global Encyclopedia of Life Support Systems (EOLSS) which is an integrated compendium of twenty one Encyclopedias. The Theme on Mathematical Models discusses matters of great relevance to our world such as Basic Principles of Mathematical Modeling, Mathematical Models in Water Sciences, Mathematical Models in Energy Sciences, Mathematical Models of Climate and

Global Change Infiltration and Ponding Mathematical Models of Biology Mathematical Models in Medicine and Public Health Mathematical Models of Society and Development These three volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

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Books and Serials in Print ,1989 *Books in Series* , 1876-1949 R.R. Bowker Company,1982 Mathematical Education

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,1988 **The Qualitative Theory of Ordinary Differential Equations** Fred Brauer,John A. Nohel,1989-01-01 This is a very good book with many well chosen examples and illustrations American Mathematical Monthly This highly regarded text presents a self contained introduction to some important aspects of modern qualitative theory for ordinary differential equations It is accessible to any student of physical sciences mathematics or engineering who has a good knowledge of calculus and of the elements of linear algebra In addition algebraic results are stated as needed the less familiar ones are proved either in the text or in appendixes The topics covered in the first three chapters are the standard theorems concerning linear systems existence and uniqueness of solutions and dependence on parameters The next three chapters the heart of the book deal with stability theory and some applications such as oscillation phenomena self excited oscillations and the regulator problem of Lurie One of the special features of this work is its abundance of exercises routine computations completions of mathematical arguments extensions of theorems and applications to physical problems Moreover they are found in the body of the text where they naturally occur offering students substantial aid in understanding the ideas and concepts discussed The level is intended for students ranging from juniors to first year graduate students in mathematics physics or engineering however the book is also ideal for a one semester undergraduate course in ordinary differential equations or for engineers in need of a course in state space methods

Subject Catalog Library of Congress,

**Differential Equations** Viorel Barbu,2016-11-16 This textbook is a comprehensive treatment of ordinary differential equations concisely presenting basic and essential results in a rigorous manner Including various examples from physics mechanics natural sciences engineering and automatic theory Differential Equations is a bridge between the abstract theory of differential equations and applied systems theory Particular attention is given to the existence and uniqueness of the Cauchy problem linear differential systems stability theory and applications to first order partial differential equations Upper undergraduate students and researchers in applied mathematics and systems theory with a background in advanced calculus will find this book particularly useful Supplementary topics are covered in an appendix enabling the book to be completely self contained

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