

Po-Fang Hsieh
Yasutaka Sibuya

BASIC THEORY OF ORDINARY DIFFERENTIAL EQUATIONS



Springer

Basic Theory Of Ordinary Differential Equations

John Guckenheimer, Philip Holmes



Basic Theory Of Ordinary Differential Equations:

Basic Theory of Ordinary Differential Equations Po-Fang Hsieh, Yasutaka Sibuya, 2012-12-06 The authors aim is to provide the reader with the very basic knowledge necessary to begin research on differential equations with professional ability The selection of topics should provide the reader with methods and results that are applicable in a variety of different fields The text is suitable for a one year graduate course as well as a reference book for research mathematicians The book is divided into four parts The first covers fundamental existence uniqueness smoothness with respect to data and nonuniqueness The second part describes the basic results concerning linear differential equations the third deals with nonlinear equations In the last part the authors write about the basic results concerning power series solutions Each chapter begins with a brief discussion of its contents and history The book has 114 illustrations and 206 exercises Hints and comments for many problems are given

Partial Differential Equations I Michael Eugene Taylor, 1996 This book is intended to be a comprehensive introduction to the subject of partial differential equations It should be useful to graduate students at all levels beyond that of a basic course in measure theory It should also be of interest to professional mathematicians in analysis mathematical physics and differential geometry This work will be divided into three volumes the first of which focuses on the theory of ordinary differential equations and a survey of basic linear PDEs

Theory And Examples Of Ordinary Differential Equations Chin-yuan Lin, 2011-01-03 This book presents a complete theory of ordinary differential equations with many illustrative examples and interesting exercises A rigorous treatment is offered with clear proofs for the theoretical results and with detailed solutions for the examples and problems This book is intended for undergraduate students who major in mathematics and have acquired a prerequisite knowledge of calculus and partly the knowledge of a complex variable and are now reading advanced calculus and linear algebra Additionally the comprehensive coverage of the theory with a wide array of examples and detailed solutions would appeal to mathematics graduate students and researchers as well as graduate students in majors of other disciplines As a handy reference advanced knowledge is provided as well with details developed beyond the basics optional sections where main results are extended offer an understanding of further applications of ordinary differential equations

Theory of Ordinary Differential Equations Earl A. Coddington, Norman Levinson, 1955 This book has developed from courses given by the authors and probably contains more material than will ordinarily be covered in a one year course It is hoped that the book will be a useful text in the application of differential equations as well as for the pure mathematician Prerequisite for this book is a knowledge of matrices and the essentials of functions in a complex variable The book thoroughly addresses linear equations and touches on the use of the Riemann Stieltjes integral and the Lebesgue integral and the theorems required from integration theory The problems in some cases give additional material not considered in the text

Ordinary Differential Equations: Basics and Beyond David G. Schaeffer, John W. Cain, 2016-11-10 This book develops the theory of ordinary differential equations ODEs starting from an

introductory level with no prior experience in ODEs assumed through to a graduate level treatment of the qualitative theory including bifurcation theory but not chaos While proofs are rigorous the exposition is reader friendly aiming for the informality of face to face interactions A unique feature of this book is the integration of rigorous theory with numerous applications of scientific interest Besides providing motivation this synthesis clarifies the theory and enhances scientific literacy Other features include i a wealth of exercises at various levels along with commentary that explains why they matter ii figures with consistent color conventions to identify nullclines periodic orbits stable and unstable manifolds and iii a dedicated website with software templates problem solutions and other resources supporting the text www.math.duke.edu/ode/book Given its many applications the book may be used comfortably in science and engineering courses as well as in mathematics courses Its level is accessible to upper level undergraduates but still appropriate for graduate students The thoughtful presentation which anticipates many confusions of beginning students makes the book suitable for a teaching environment that emphasizes self directed active learning including the so called inverted classroom

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Differential Equations J. Kurzweil, 2014-06-28 The author Professor Kurzweil is one of the world's top experts in the area of ordinary differential equations a fact fully reflected in this book Unlike many classical texts which concentrate primarily on methods of integration of differential equations this book pursues a modern approach the topic is discussed in full generality which at the same time permits us to gain a deep insight into the theory and to develop a fruitful intuition The basic framework of the theory is expanded by considering further important topics like stability dependence of a solution on a parameter Carathéodory's theory and differential relations The book is very well written and the prerequisites needed are minimal some basics of analysis and linear algebra As such it is accessible to a wide circle of readers in particular to non mathematicians

Linear Differential Equations in the Complex Domain Yoshishige Haraoka, 2020-11-16 This book provides a detailed introduction to recent developments in the theory of linear differential systems and integrable total differential systems Starting from the basic theory of linear ordinary differential equations and integrable systems it proceeds to describe Katz theory and its applications extending it to the case of several variables In addition connection problems deformation theory and the theory of integral representations are comprehensively covered Complete proofs are given offering the reader a precise account of the classical and modern theory of linear differential equations in the complex domain including an exposition of Pfaffian systems and their monodromy problems The prerequisites are a course in complex analysis and the basics of differential equations topology and differential geometry This book will be useful for graduate students specialists in differential equations and for non specialists who want to use differential equations

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Differential Equation Mr. Rohit Manglik, 2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students

across various streams and levels Nonlinear Oscillations, Dynamical Systems, and Bifurcations of Vector Fields John Guckenheimer, Philip Holmes, 2013-11-21 From the reviews This book is concerned with the application of methods from dynamical systems and bifurcation theories to the study of nonlinear oscillations Chapter 1 provides a review of basic results in the theory of dynamical systems covering both ordinary differential equations and discrete mappings Chapter 2 presents 4 examples from nonlinear oscillations Chapter 3 contains a discussion of the methods of local bifurcation theory for flows and maps including center manifolds and normal forms Chapter 4 develops analytical methods of averaging and perturbation theory Close analysis of geometrically defined two dimensional maps with complicated invariant sets is discussed in chapter 5 Chapter 6 covers global homoclinic and heteroclinic bifurcations The final chapter shows how the global bifurcations reappear in degenerate local bifurcations and ends with several more models of physical problems which display these behaviors Book Review Engineering Societies Library New York 1 An attempt to make research tools concerning strange attractors developed in the last 20 years available to applied scientists and to make clear to research mathematicians the needs in applied works Emphasis on geometric and topological solutions of differential equations Applications mainly drawn from nonlinear oscillations American Mathematical Monthly 2 *Dynamical Systems with Applications using MATLAB®* Stephen Lynch, 2014-07-22 This textbook now in its second edition provides a broad introduction to both continuous and discrete dynamical systems the theory of which is motivated by examples from a wide range of disciplines It emphasizes applications and simulation utilizing MATLAB Simulink the Image Processing Toolbox and the Symbolic Math toolbox including MuPAD Features new to the second edition include sections on series solutions of ordinary differential equations perturbation methods normal forms Gr bner bases and chaos synchronization chapters on image processing and binary oscillator computing hundreds of new illustrations examples and exercises with solutions and over eighty up to date MATLAB program files and Simulink model files available online These files were voted MATLAB Central Pick of the Week in July 2013 The hands on approach of Dynamical Systems with Applications using MATLAB Second Edition has minimal prerequisites only requiring familiarity with ordinary differential equations It will appeal to advanced undergraduate and graduate students applied mathematicians engineers and researchers in a broad range of disciplines such as population dynamics biology chemistry computing economics nonlinear optics neural networks and physics Praise for the first edition Summing up it can be said that this text allows the reader to have an easy and quick start to the huge field of dynamical systems theory MATLAB SIMULINK facilitate this approach under the aspect of learning by doing OR News Operations Research Spectrum The MATLAB programs are kept as simple as possible and the author s experience has shown that this method of teaching using MATLAB works well with computer laboratory classes of small sizes I recommend Dynamical Systems with Applications using MATLAB as a good handbook for a diverse readership graduates and professionals in mathematics physics science and engineering Mathematica *Ordinary Differential Equations* Charles Roberts, 2011-06-13 In the traditional curriculum

students rarely study nonlinear differential equations and nonlinear systems due to the difficulty or impossibility of computing explicit solutions manually. Although the theory associated with nonlinear systems is advanced, generating a numerical solution with a computer and interpreting that solution are fairly elementary. Bringing the computer into the classroom. *Ordinary Differential Equations: Applications, Models, and Computing* emphasizes the use of computer software in teaching differential equations. Providing an even balance between theory, computer solution, and application, the text discusses the theorems and applications of the first order initial value problem, including learning theory, models, population growth models, epidemic models, and chemical reactions. It then examines the theory for n th order linear differential equations and the Laplace transform and its properties before addressing several linear differential equations with constant coefficients that arise in physical and electrical systems. The author also presents systems of first order differential equations as well as linear systems with constant coefficients that arise in physical systems such as coupled spring-mass systems, pendulum systems, the path of an electron, and mixture problems. The final chapter introduces techniques for determining the behavior of solutions to systems of first order differential equations without first finding the solutions. Designed to be independent of any particular software package, the book includes a CD-ROM with the software used to generate the solutions and graphs for the examples. The appendices contain complete instructions for running the software. A solutions manual is available for qualifying instructors.

Partial Differential Equations Michael E. Taylor, 1996-06-25. This text provides an introduction to the theory of partial differential equations. It introduces basic examples of partial differential equations arising in continuum mechanics, electromagnetism, complex analysis, and other areas, and develops a number of tools for their solution, including particularly Fourier analysis, distribution theory, and Sobolev spaces. These tools are applied to the treatment of basic problems in linear PDE, including the Laplace equation, heat equation, and wave equation, as well as more general elliptic, parabolic, and hyperbolic equations. Companion texts which take the theory of partial differential equations further are AMS volume 116, treating more advanced topics in linear PDE, and AMS volume 117, treating problems in nonlinear PDE. This book is addressed to graduate students in mathematics and to professional mathematicians with an interest in partial differential equations, mathematical physics, differential geometry, harmonic analysis, and complex analysis.

Formal Methods for Control of Nonlinear Systems Yinan Li, Jun Liu, 2022-12-15. Formal methods is a field of computer science that emphasizes the use of rigorous mathematical techniques for verification and design of hardware and software systems. Analysis and design of nonlinear control design plays an important role across many disciplines of engineering and applied sciences, ranging from the control of an aircraft engine to the design of genetic circuits in synthetic biology. While linear control is a well-established subject, analysis and design of nonlinear control systems remains a challenging topic due to some of the fundamental difficulties caused by nonlinearity. *Formal Methods for Control of Nonlinear Systems* provides a unified computational approach to analysis and design of nonlinear systems. Features: Constructive approach to nonlinear

control Rigorous specifications and validated computation Suitable for graduate students and researchers who are interested in learning how formal methods and validated computation can be combined together to tackle nonlinear control problems with complex specifications from an algorithmic perspective Combines mathematical rigor with practical applications

Nonlinear Problems of Elasticity Stuart Antman, 2005-11-24 Enlarged updated and extensively revised this second edition illuminates specific problems of nonlinear elasticity emphasizing the role of nonlinear material response Opening chapters discuss strings rods and shells and applications of bifurcation theory and the calculus of variations to problems for these bodies Subsequent chapters cover tensors three dimensional continuum mechanics three dimensional elasticity general theories of rods and shells and dynamical problems Each chapter includes interesting challenging and tractable exercises

Ordinary Differential Equations William A. Adkins, Mark G. Davidson, 2012-07-01 Unlike most texts in differential equations this textbook gives an early presentation of the Laplace transform which is then used to motivate and develop many of the remaining differential equation concepts for which it is particularly well suited For example the standard solution methods for constant coefficient linear differential equations are immediate and simplified and solution methods for constant coefficient systems are streamlined By introducing the Laplace transform early in the text students become proficient in its use while at the same time learning the standard topics in differential equations The text also includes proofs of several important theorems that are not usually given in introductory texts These include a proof of the injectivity of the Laplace transform and a proof of the existence and uniqueness theorem for linear constant coefficient differential equations Along with its unique traits this text contains all the topics needed for a standard three or four hour sophomore level differential equations course for students majoring in science or engineering These topics include first order differential equations general linear differential equations with constant coefficients second order linear differential equations with variable coefficients power series methods and linear systems of differential equations It is assumed that the reader has had the equivalent of a one year course in college calculus

Solving Differential Equations in R Karlne Soetaert, Jeff Cash, Francesca Mazzia, 2012-06-06 Mathematics plays an important role in many scientific and engineering disciplines This book deals with the numerical solution of differential equations a very important branch of mathematics Our aim is to give a practical and theoretical account of how to solve a large variety of differential equations comprising ordinary differential equations initial value problems and boundary value problems differential algebraic equations partial differential equations and delay differential equations The solution of differential equations using R is the main focus of this book It is therefore intended for the practitioner the student and the scientist who wants to know how to use R for solving differential equations However it has been our goal that non mathematicians should at least understand the basics of the methods while obtaining entrance into the relevant literature that provides more mathematical background Therefore each chapter that deals with R examples is preceded by a chapter where the theory behind the numerical methods being used is introduced In the sections

that deal with the use of R for solving differential equations we have taken examples from a variety of disciplines including biology chemistry physics pharmacokinetics Many examples are well known test examples used frequently in the field of numerical analysis

Introduction to Functional Differential Equations Jack K. Hale, Sjoerd M. Verduyn Lunel, 2013-11-21

The present book builds upon an earlier work of J Hale *Theory of Functional Differential Equations* published in 1977 We have tried to maintain the spirit of that book and have retained approximately one third of the material intact One major change was a complete new presentation of linear systems Chapters 6-9 for retarded and neutral functional differential equations The theory of dissipative systems Chapter 4 and global attractors was completely revamped as well as the invariant manifold theory Chapter 10 near equilibrium points and periodic orbits A more complete theory of neutral equations is presented see Chapters 1-2-3-9 and 10 Chapter 12 is completely new and contains a guide to active topics of research In the sections on supplementary remarks we have included many references to recent literature but of course not nearly all because the subject is so extensive

Jack K Hale Sjoerd M Verduyn Lunel Contents Preface v Introduction 1-1 Linear differential difference equations 11-1-1 Differential and difference equations 11-1-2 Retarded differential difference equations 13-1-3 Exponential estimates of $x(t)$ 15-1-4 The characteristic equation 17-1-5 The fundamental solution 18-1-6 The variation of constants formula 23-1-7 Neutral differential difference equations 25-1-8 Supplementary remarks 34-2 Functional differential equations Basic theory 38-2-1 Definition of a retarded equation 38-2-2 Existence uniqueness and continuous dependence 39-2-3 Continuation of solutions 44

Ordinary Differential Equations Philip Hartman, 1982-01-01

Ordinary Differential Equations covers the fundamentals of the theory of ordinary differential equations ODEs including an extensive discussion of the integration of differential inequalities on which this theory relies heavily In addition to these results the text illustrates techniques involving simple topological arguments fixed point theorems and basic facts of functional analysis Unlike many texts which supply only the standard simplified theorems this book presents the basic theory of ODEs in a general way This SIAM reissue of the 1982 second edition covers invariant manifolds perturbations and dichotomies making the text relevant to current studies of geometrical theory of differential equations and dynamical systems In particular Ordinary Differential Equations includes the proof of the Hartman-Grobman theorem on the equivalence of a nonlinear to a linear flow in the neighborhood of a hyperbolic stationary point as well as theorems on smooth equivalences the smoothness of invariant manifolds and the reduction of problems on ODEs to those on maps Poincaré Audience readers should have knowledge of matrix theory and the ability to deal with functions of real variables

Fundamentals of Partial Differential Equations Atul Kumar Razdan, V. Ravichandran, 2022-04-02

The book serves as a primary textbook of partial differential equations PDEs with due attention to their importance to various physical and engineering phenomena The book focuses on maintaining a balance between the mathematical expressions used and the significance they hold in the context of some physical problem The book has wider outreach as it covers topics relevant to many different applications of ordinary

differential equations ODEs PDEs Fourier series integral transforms and applications It also discusses applications of analytical and geometric methods to solve some fundamental PDE models of physical phenomena such as transport of mass momentum and energy As far as possible historical notes are added for most important developments in science and engineering Both the presentation and treatment of topics are fashioned to meet the expectations of interested readers working in any branch of science and technology Senior undergraduates in mathematics and engineering are the targeted student readership and the topical focus with applications to real world examples will promote higher level mathematical understanding for undergraduates in sciences and engineering

Ordinary Differential Equations with Applications

Carmen Chicone, 2024-05-19 This book developed during 20 years of the author teaching differential equations courses at his home university is designed to serve as a text for a graduate level course focused on the central theory of the subject with attention paid to applications and connections to other advanced topics in mathematics Core theory includes local existence and uniqueness the phase plane Poincaré Bendixson theory Lyapunov and linearized stability linear systems Floquet theory the Grobman Hartman theorem persistence of rest points and periodic orbits the stable and center manifold theorems and bifurcation theory This edition includes expanded treatment of deterministic chaos perturbation theory for periodic solutions boundary value problems optimization and a wide range of their applications In addition it contains a formulation and new proof of a theorem on instability of rest points in the presence of an eigenvalue with positive real part and new proofs of differential inequalities and Lyapunov's center theorem New sections present discussions of global bifurcation the Crandall Rabinowitz theorem and Alekseev's formula Of particular note is a new chapter on basic control theory a discussion of optimal control and a proof of a useful special case of the maximum principle A key feature of earlier editions a wide selection of original exercises is respected in this edition with the inclusion of a wealth of new exercises Reviews of the first edition As an applied mathematics text on linear and nonlinear equations the book by Chicone is written with stimulating enthusiasm It will certainly appeal to many students and researchers F Verhulst SIAM Review The author writes lucidly and in an engaging conversational style His book is wide ranging in its subject matter thorough in its presentation and written at a generally high level of generality detail and rigor D S Shafer Mathematical Reviews

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