

# **Differential Equations:** Techniques, Theory, and Applications

**Barbara D. MacCluer | Paul S. Bourdon | Thomas L. Kriete**



# Modern Differential Equations A Theory

**Michael Ruzhansky, Jens Wirth**



## **Modern Differential Equations A Theory:**

*Modern Differential Equations* George O. Abell, Martha L. Abell, 1995-10-01      **Modern Differential Equations** Martha L. Abell, 1995-10-01      Modern Differential Equations Martha L. Abell, James P. Braselton, 2001

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Linear Differential Equations and Group Theory from Riemann to Poincare Jeremy Gray, 2010-01-07 This book is a study of how a particular vision of the unity of mathematics often called geometric function theory was created in the 19th century The central focus is on the convergence of three mathematical topics the hypergeometric and related linear differential equations group theory and on Euclidean geometry The text for this second edition has been greatly expanded and revised and the existing appendices enriched with historical accounts of the Riemann Hilbert problem the uniformization theorem Picard Vessiot theory and the hypergeometric equation in higher dimensions The exercises have been retained making it possible to use the book as a companion to mathematics courses at the graduate level

**Partial Differential Equations: Classical Theory with a Modern Touch** A. K. Nandakumaran, P. S. Datti, 2020-10-29 A valuable guide covering the key principles of partial differential equations and

their real world applications      **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      **Theory Of Impulsive Differential Equations** Vangipuram Lakshmikantham, Drumi D Bainov, Pavel Simeonov, 1989-05-01 Many evolution processes are characterized by the fact that at certain moments of time they experience a change of state abruptly These processes are subject to short term perturbations whose duration is negligible in comparison with the duration of the process Consequently it is natural to assume that these perturbations act instantaneously that is in the form of impulses It is known for example that many biological phenomena involving thresholds bursting rhythm models in medicine and biology optimal control models in economics pharmacokinetics and frequency modulated systems do exhibit impulsive effects Thus impulsive differential equations that is differential equations involving impulse effects appear as a natural description of observed evolution phenomena of several real world problems      **Partial Differential Equations** George F. Carrier, Carl E. Pearson, 1988 This is the second edition of the well established text in partial differential equations emphasizing modern practical solution techniques This updated edition includes a new chapter on transform methods and a new section on integral equations in the numerical methods chapter The authors have also included additional exercises      Differential Equations Steven G. Krantz, 2022-05-29 Differential equations is one of the oldest subjects in modern mathematics It was not long after Newton and Leibniz invented the calculus that Bernoulli and Euler and others began to consider the heat equation and the wave equation of mathematical physics Newton himself solved differential equations both in the study of planetary motion and also in his consideration of optics Today differential equations is the centerpiece of much of engineering of physics of significant parts of the life sciences and in many areas of mathematical modeling This text describes classical ideas and provides an entree to the newer ones The author pays careful attention to advanced topics like the Laplace transform Sturm Liouville theory and boundary value problems on the traditional side but also pays due homage to nonlinear theory to modeling and to computing on the modern side This book began as a modernization of George Simmons classic Differential Equations with Applications and Historical Notes Prof Simmons invited the author to update his book Now in the third edition this text has become the author s own and a unique blend of the traditional and the modern The text describes classical ideas

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**Partial Differential Equations II** Yu.V. Egorov,A.I. Komech,M.A. Shubin,2013-12-01 This book the first printing of which was published as Volume 31 of the Encyclopaedia of Mathematical Sciences contains a survey of the modern theory of general linear partial differential equations and a detailed review of equations with constant coefficients Readers will be interested in an introduction to microlocal analysis and its applications including singular integral operators pseudodifferential operators Fourier integral operators and wavefronts a survey of the most important results about the mixed problem for hyperbolic equations a review of asymptotic methods including short wave asymptotics the Maslov canonical operator and spectral asymptotics a detailed description of the applications of distribution theory to partial differential equations with constant coefficients including numerous interesting special topics Modern Mathematics and Mechanics Victor A. Sadovnichiy,Michael Z. Zgurovsky,2018-11-29 In this book international expert authors provide solutions for modern fundamental problems including the complexity of computing of critical points for set valued mappings the behaviour of solutions of ordinary differential equations partial differential equations and difference equations or the development of an abstract theory of global attractors for multi valued impulsive dynamical systems These abstract mathematical approaches are applied to problem solving in solid mechanics hydro and aerodynamics optimization decision making theory and control theory This volume is therefore relevant to mathematicians as well as engineers working at the interface of these fields **Basic Modern Theory of Linear Complex Analytic  $q$ -Difference Equations** Jacques Sauloy,2024-11-06 The roots of the modern theories of differential and  $q$  difference equations go back in part to an article by George D Birkhoff published in 1913 dealing with the three sister theories of differential difference and  $q$  difference equations This book is about  $q$  difference equations and focuses on techniques inspired by differential equations in line with Birkhoff s work as revived over the last three decades It follows the approach of the Ramis school mixing algebraic and analytic methods While it uses some  $q$  calculus and is illustrated by  $q$  special functions these are not its main subjects After a gentle historical introduction with emphasis on mathematics and a thorough study of basic problems such as elementary  $q$

functions elementary  $q$  calculus and low order equations a detailed algebraic and analytic study of scalar equations is followed by the usual process of transforming them into systems and back again The structural algebraic and analytic properties of systems are then described using  $q$  difference modules Newton polygon filtration by the slopes The final chapters deal with Fuchsian and irregular equations and systems including their resolution classification Riemann Hilbert correspondence and Galois theory Nine appendices complete the book and aim to help the reader by providing some fundamental yet not universally taught facts There are 535 exercises of various styles and levels of difficulty The main prerequisites are general algebra and analysis as taught in the first three years of university The book will be of interest to expert and non expert researchers as well as graduate students in mathematics and physics

**Modern Electrical Theory** Norman Robert Campbell, 1923

**Wave Phenomena: Modern Theory and Applications** C. Rogers, T.B. Moodie, 1984-10-01 This volume contains 35 of the contributions to the international meeting Wave Phenomena Modern Theory and Applications held at the University of Toronto Canada at the end of June 1983

Topics In Quantum Field Theory: Modern Methods In Fundamental Physics D H Tchraikian, 1995-12-30 This book constitutes the proceedings of a meeting which brought together contributors from the four European networks in the area of the theory of fundamental interactions While each of these networks overlaps strongly with all the others this coming together gives the proceedings a greater than usual breadth of subjects nevertheless The wide range of topics in quantum field theory covered includes Hamiltonian and semiclassical methods critical phenomena and various aspects of classical and quantum gravity including also a study in the detection of gravitational radiation This together with the leading item on the recent history of the subject gives an overall perspective of the many new research directions in this area

History of Modern Mathematics David Eugene Smith, 1896

Classical and Modern Diffraction Theory Kamill Klem-Musatov, Henning C. Hoeber, Tijmen Jan Moser, Michael A. Pelissier, 2016-06-30 Providing geophysicists with an in depth understanding of the theoretical and applied background for the seismic diffraction method Classical and Modern Diffraction Theory covers the history and foundations of the classical theory and the key elements of the modern diffraction theory Chapters include an overview and a historical review of classical theory a summary of the experimental results illustrating this theory and key principles of the modern theory of diffraction the early cornerstones of classical diffraction theory starting from its inception in the 17th century and an extensive introduction to reprinted works of Grimaldi Huygens and Young details of the classical theory of diffractions as developed in the 19th century and reprinted works of Fresnel Green Helmholtz Kirchhoff and Rayleigh and the cornerstones of the modern theory including Keller's geometrical theory of diffraction boundary layer theory and super resolution Appendices on the Cornu spiral and Babinet's principle are also included

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