

METHODS FOR CONSTRUCTING EXACT SOLUTIONS OF PARTIAL DIFFERENTIAL EQUATIONS

**MATHEMATICAL AND ANALYTICAL TECHNIQUES
WITH APPLICATIONS TO ENGINEERING**

Sergey V. Meleshko



Springer

Methods For Constructing Exact Solutions Of Partial Differential Equations

Andrei D. Polyanin, Valentin F. Zaitsev



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Differential equations especially nonlinear present the most effective way for describing complex physical processes. Methods for constructing exact solutions of differential equations play an important role in applied mathematics and mechanics. This book aims to provide scientists, engineers, and students with an easy to follow but comprehensive description of the methods for constructing exact solutions of differential equations. Methods for Constructing Exact Solutions of Partial Differential Equations

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Exact Methods for Nonlinear PDEs Andrei D. Polyanin, 2025-08-13. Exact Methods for Nonlinear PDEs describes effective analytical methods for finding exact solutions to nonlinear differential equations of mathematical physics and other partial differential equations and also demonstrates the practical applications of these methods. It covers the methods of generalized separation of variables, methods of functional separation of variables, the classical method of symmetry reductions, the direct method of symmetry reductions, the method of weak symmetry reductions, and the method of differential constraints. The book presents several simple methods for finding exact solutions to nonlinear partial differential equations (PDEs). These methods do not require specialized knowledge and aim to minimize intermediate calculations. For the first time, it discusses the application of nonrigorous intuitive reasoning in deriving exact solutions to nonlinear PDEs. Each section provides numerous examples, problems, and exercises to help readers develop practical skills in applying the methods. The material is illustrated with equations of mass and heat transfer, hydrodynamics, wave theory, nonlinear optics, and other nonlinear equations of mathematical physics. The key points that distinguish this book from others in the field include: it presents many methods in a simpler and more visual format; it describes a number of simple methods for constructing exact solutions to nonlinear PDEs and delay PDEs; it emphasizes and details the practical use of non-rigorous reasoning to derive exact solutions for nonlinear PDEs. The book is intended for a diverse audience including researchers, university professors, engineers, postgraduates, and students specializing in applied mathematics, theoretical physics, and engineering sciences. Separation of Variables and Exact Solutions to Nonlinear PDEs Andrei D. Polyanin, Alexei I.

Zhurov,2021-09-19 Separation of Variables and Exact Solutions to Nonlinear PDEs is devoted to describing and applying methods of generalized and functional separation of variables used to find exact solutions of nonlinear partial differential equations PDEs It also presents the direct method of symmetry reductions and its more general version In addition the authors describe the differential constraint method which generalizes many other exact methods The presentation involves numerous examples of utilizing the methods to find exact solutions to specific nonlinear equations of mathematical physics The equations of heat and mass transfer wave theory hydrodynamics nonlinear optics combustion theory chemical technology biology and other disciplines are studied Particular attention is paid to nonlinear equations of a reasonably general form that depend on one or several arbitrary functions Such equations are the most difficult to analyze Their exact solutions are of significant practical interest as they are suitable to assess the accuracy of various approximate analytical and numerical methods The book contains new material previously unpublished in monographs It is intended for a broad audience of scientists engineers instructors and students specializing in applied and computational mathematics theoretical physics mechanics control theory chemical engineering science and other disciplines Individual sections of the book and examples are suitable for lecture courses on partial differential equations equations of mathematical physics and methods of mathematical physics for delivering special courses and for practical training

Exact Solutions and Invariant Subspaces of Nonlinear Partial Differential Equations in Mechanics and Physics Victor A. Galaktionov, Sergey R. Svirshchevskii,2006-11-02 Exact Solutions and Invariant Subspaces of Nonlinear Partial Differential Equations in Mechanics and Physics is the first book to provide a systematic construction of exact solutions via linear invariant subspaces for nonlinear differential operators Acting as a guide to nonlinear evolution equations and models from physics and mechanics the book focuses on the existence of new exact solutions on linear invariant subspaces for nonlinear operators and their crucial new properties This practical reference deals with various partial differential equations PDEs and models that exhibit some common nonlinear invariant features It begins with classical as well as more recent examples of solutions on invariant subspaces In the remainder of the book the authors develop several techniques for constructing exact solutions of various nonlinear PDEs including reaction diffusion and gas dynamics models thin film and Kuramoto Sivashinsky equations nonlinear dispersion compacton equations KdV type and Harry Dym models quasilinear magma equations and Green Naghdi equations Using exact solutions they describe the evolution properties of blow up or extinction phenomena finite interface propagation and the oscillatory changing sign behavior of weak solutions near interfaces for nonlinear PDEs of various types and orders The techniques surveyed in Exact Solutions and Invariant Subspaces of Nonlinear Partial Differential Equations in Mechanics and Physics serve as a preliminary introduction to the general theory of nonlinear evolution PDEs of different orders and types

Analytical Techniques for Solving Nonlinear Partial Differential Equations Daniel J. Arrigo,2022-06-01 This is an introduction to methods for solving nonlinear partial differential equations NLPDEs After the introduction of several PDEs

drawn from science and engineering the reader is introduced to techniques used to obtain exact solutions of NPDEs The chapters include the following topics Compatibility Differential Substitutions Point and Contact Transformations First Integrals and Functional Separability The reader is guided through these chapters and is provided with several detailed examples Each chapter ends with a series of exercises illustrating the material presented in each chapter The book can be used as a textbook for a second course in PDEs typically found in both science and engineering programs and has been used at the University of Central Arkansas for more than ten years

Delay Ordinary and Partial Differential Equations Andrei D. Polyanin, Vsevolod G. Sorokin, Alexei I. Zhurov, 2023-08-28 Delay Ordinary and Partial Differential Equations is devoted to linear and nonlinear ordinary and partial differential equations with constant and variable delay It considers qualitative features of delay differential equations and formulates typical problem statements Exact approximate analytical and numerical methods for solving such equations are described including the method of steps methods of integral transformations method of regular expansion in a small parameter method of matched asymptotic expansions iteration type methods Adomian decomposition method collocation method Galerkin type projection methods Euler and Runge Kutta methods shooting method method of lines finite difference methods for PDEs methods of generalized and functional separation of variables method of functional constraints method of generating equations and more The presentation of the theoretical material is accompanied by examples of the practical application of methods to obtain the desired solutions Exact solutions are constructed for many nonlinear delay reaction diffusion and wave type PDEs that depend on one or more arbitrary functions A review is given of the most common mathematical models with delay used in population theory biology medicine economics and other applications The book contains much new material previously unpublished in monographs It is intended for a broad audience of scientists university professors and graduate and postgraduate students specializing in applied and computational mathematics mathematical physics mechanics control theory biology medicine chemical technology ecology economics and other disciplines Individual sections of the book and examples are suitable for lecture courses on applied mathematics mathematical physics and differential equations for delivering special courses and for practical training

Wavelet Methods for Solving Partial Differential Equations and Fractional Differential Equations Santanu Saha Ray, Arun Kumar Gupta, 2018-01-12 The main focus of the book is to implement wavelet based transform methods for solving problems of fractional order partial differential equations arising in modelling real physical phenomena It explores analytical and numerical approximate solution obtained by wavelet methods for both classical and fractional order partial differential equations

[Handbook of Nonlinear Partial Differential Equations](#) Andrei D. Polyanin, Valentin F. Zaitsev, 2004-06-02 The Handbook of Nonlinear Partial Differential Equations is the latest in a series of acclaimed handbooks by these authors and presents exact solutions of more than 1600 nonlinear equations encountered in science and engineering many more than any other book available The equations include those of parabolic hyperbolic

elliptic and other types and the authors pay special attention to equations of general form that involve arbitrary functions A supplement at the end of the book discusses the classical and new methods for constructing exact solutions to nonlinear equations To accommodate different mathematical backgrounds the authors avoid wherever possible the use of special terminology outline some of the methods in a schematic simplified manner and arrange the equations in increasing order of complexity Highlights of the Handbook *Handbook of Exact Solutions to Mathematical Equations* Andrei D.

Polyanin, 2024-08-26 This reference book describes the exact solutions of the following types of mathematical equations Algebraic and Transcendental Equations Ordinary Differential Equations Systems of Ordinary Differential Equations First Order Partial Differential Equations Linear Equations and Problems of Mathematical Physics Nonlinear Equations of Mathematical Physics Systems of Partial Differential Equations Integral Equations Difference and Functional Equations Ordinary Functional Differential Equations Partial Functional Differential Equations The book delves into equations that find practical applications in a wide array of natural and engineering sciences including the theory of heat and mass transfer wave theory hydrodynamics gas dynamics combustion theory elasticity theory general mechanics theoretical physics nonlinear optics biology chemical engineering sciences ecology and more Most of these equations are of a reasonably general form and dependent on free parameters or arbitrary functions The Handbook of Exact Solutions to Mathematical Equations generally has no analogs in world literature and contains a vast amount of new material The exact solutions given in the book being rigorous mathematical standards can be used as test problems to assess the accuracy and verify the adequacy of various numerical and approximate analytical methods **Handbook of Nonlinear Partial Differential Equations, Second**

Edition Andrei D. Polyanin, Valentin F. Zaitsev, 2016-04-19 New to the Second Edition More than 1 000 pages with over 1 500 new first second third fourth and higher order nonlinear equations with solutions Parabolic hyperbolic elliptic and other systems of equations with solutions Some exact methods and transformations Symbolic and numerical methods for solving nonlinear PDEs with Maple™ Mathematica and MATLAB Many new illustrative examples and tables A large list of references consisting of over 1 300 sources To accommodate different mathematical backgrounds the authors avoid wherever possible the use of special terminology They outline the methods in a schematic simplified manner and arrange the material in increasing order of complexity **Recent Developments in the Solution of Nonlinear Differential**

Equations Bruno Carpentieri, 2021-09-08 Nonlinear differential equations are ubiquitous in computational science and engineering modeling fluid dynamics finance and quantum mechanics among other areas Nowadays solving challenging problems in an industrial setting requires a continuous interplay between the theory of such systems and the development and use of sophisticated computational methods that can guide and support the theoretical findings via practical computer simulations Owing to the impressive development in computer technology and the introduction of fast numerical methods

with reduced algorithmic and memory complexity rigorous solutions in many applications have become possible This book collects research papers from leading world experts in the field highlighting ongoing trends progress and open problems in this critically important area of mathematics

Symmetries, Differential Equations and Applications Victor G. Kac, Peter J. Olver, Pavel Winternitz, Teoman Özer, 2018-11-04 Based on the third International Conference on Symmetries Differential Equations and Applications SDEA III this proceedings volume highlights recent important advances and trends in the applications of Lie groups including a broad area of topics in interdisciplinary studies ranging from mathematical physics to financial mathematics The selected and peer reviewed contributions gathered here cover Lie theory and symmetry methods in differential equations Lie algebras and Lie pseudogroups super symmetry and super integrability representation theory of Lie algebras classification problems conservation laws and geometrical methods The SDEA III held in honour of the Centenary of Noether's Theorem proven by the prominent German mathematician Emmy Noether at Istanbul Technical University in August 2017 provided a productive forum for academic researchers both junior and senior and students to discuss and share the latest developments in the theory and applications of Lie symmetry groups This work has an interdisciplinary appeal and will be a valuable read for researchers in mathematics mechanics physics engineering medicine and finance

Symmetries of Integro-Differential Equations Sergey V. Meleshko, Yurii N. Grigoriev, N. Kh. Ibragimov, Vladimir F. Kovalev, 2010-06-23 This book provides an accessible yet comprehensive description of the application methods of group analysis to integro differential equations It offers both fundamental theoretical and algorithmic aspects of these methods and includes instructive examples

Introduction to Qualitative Methods for Differential Equations Ronald E. Mickens, 2025-05-01 Introduction to Qualitative Methods for Differential Equations provides an alternative approach to teaching and understanding differential equations The basic methodology of the book is centred on finding reformulations of differential equations in such a manner that they become partially at least problems in geometry Through this approach the book distils the critical aspects of the qualitative theory of differential equations and illustrates their application to a number of nontrivial problems Features Self contained with suggestions for further reading Concise and approachable exposition with only minimal pre requisites Ideal for self study Appropriate for undergraduate mathematicians engineers and other quantitative science students

Non-Linear Lattice Ignazio Licata and Sauro Succi, 2018-07-17 This book is a printed edition of the Special Issue Non Linear Lattice that was published in Entropy

Plasmonic Instabilities in Bidimensional Materials Pedro Afonso Cosme e Silva, 2025-03-29 This book provides an in depth analysis of the hydrodynamics of two dimensional 2D electronic systems with a particular focus on graphene and other Dirac materials It explores the theoretical framework and numerical simulations to uncover the potential of plasmonic instabilities in advancing nanotechnology Moreover the book also addresses the collective behaviour of quasiparticles in 2D materials and offers insights into the complex interplay between hydrodynamic behaviours and plasmonic phenomena The main topics covered in

this book include the hydrodynamic description of charge carriers nonlinear waves and topological effects in 2D electronic systems It provides a comprehensive treatment of the Boltzmann equation to derive fluid like transport equations which are then used to study the collective responses and behaviours of these systems The book also relies on the concept of electrostatic excitations the plasmons as an additional fluid and explores their effects and interplay with the charge carriers One of the significant contributions of this book is the investigation of plasmonic instabilities and their potential applications in creating new active nanodevices such as THz radiation sources The theoretical findings are supported by extensive numerical simulations providing a deeper understanding of the principles governing electronic flow in 2D materials Further this work also examines the nonlinear dynamics of electrohydrodynamics revealing phenomena such as solitary waves and the criteria for their occurrence Lastly the novel aspects of topological effects on the charge flow are also investigated The importance of this work lies in its dual contribution to fundamental research and practical applications On the theoretical side it advances our understanding of the hydrodynamic regime of 2D materials and the transient and dynamic responses of these systems On the practical side it proposes novel device implementations such as plasmonics oscillators and waveguides On that topic the book addresses the challenges of these devices offering solutions to enhance controllability and to boost performance as well This book is essential for graduate students researchers and professionals in the fields of quantum plasmas 2D materials and plasmonics It is particularly valuable for plasma scientists interested in exploring 2D materials and condensed matter physicists who wish to study the hydrodynamic regime and the dynamic responses of these systems By providing a detailed and comprehensive understanding of these advanced topics this book paves the way for future research and technological innovations in the rapidly evolving fields of electrohydrodynamics and plasmonics

NUMISHEET 2022
 Kaan Inal,Julie Levesque,Michael Worswick,Cliff Butcher,2022-06-30 The NUMISHEET conference series is the most significant international conference on the area of the numerical simulation of sheet metal forming processes It gathers the most prominent experts in numerical methods in sheet forming processes and is an outstanding forum for the exchange of ideas and for the discussion of technologies related to sheet metal forming processes Topics covered in this volume include but are not limited to the following Materials Modeling and Experimental Testing Methods Friction and Contact Formability Necking and Fracture Instabilities and Surface Defects Fracture and Damage Numerical Methods Springback Incremental Sheet Forming Roll Forming Innovative Forming Methods Product and Process Design and Optimization

Solving Nonlinear Partial Differential Equations with Maple and Mathematica Inna Shingareva,Carlos Lizárraga-Celaya,2011-07-24 The emphasis of the book is given in how to construct different types of solutions exact approximate analytical numerical graphical of numerous nonlinear PDEs correctly easily and quickly The reader can learn a wide variety of techniques and solve numerous nonlinear PDEs included and many other differential equations simplifying and transforming the equations and solutions arbitrary functions and parameters presented in the book Numerous comparisons and relationships between

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