

METHODS FOR CONSTRUCTING EXACT SOLUTIONS OF PARTIAL DIFFERENTIAL EQUATIONS

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

Sergey V. Meleshko

Methods For Constructing Exact Solutions Of Partial Differential Equations

Andrei D. Polyanin, Alexei I. Zhurov



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Methods for Constructing Exact Solutions of Partial Differential Equations Sergey V. Meleshko, 2005-09-16

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.

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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.

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 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

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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

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 for solving mathematical equations as well as to check and compare the effectiveness of exact analytical methods

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

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