

# **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

**Inna Shingareva, Carlos Lizárraga-Celaya**



## **Methods For Constructing Exact Solutions Of Partial Differential Equations:**

**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.

*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.

**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

**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

*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

**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 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      **Nonlinear Partial Differential Equations** Nikolai A Kudryashov, 2023-08-11 This reprint contains the 19 articles accepted and published in the Special Issue Nonlinear Partial Differential Equations Exact Solutions Symmetries Methods and Applications 2023 of the MDPI Mathematics journal This publication covers a wide range of topics pertaining to the theory and applications of Nonlinear Partial Differential Equations and its generalizations These journal covers special methods for constructing solutions to nonlinear nonintegrable partial differential equations and application of differential equations to describe physical technological and environmental processes among other topics The main focus of this Special Issue is the use of computer mathematics methods to obtain the results of the presented works We hope that the reprint will be an interesting and useful resource for those working in the area of Nonlinear Partial Differential Equations Exact Solutions Symmetries Methods and Applications as well as those with the proper mathematical background and willingness to familiarize themselves with recent advances in nonlinear mathematical models Nowadays these influence almost all aspects of human life      *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      *Journal of Physics A* , 2002 Focuses on fundamental mathematical and computational methods underpinning physics Relevant to statistical physics chaotic and complex systems classical and quantum mechanics classical and quantum integrable systems and classical and quantum field theory      **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 various types of solutions different methods and approaches are provided the results obtained in Maple and Mathematica facilitates a deeper understanding of the subject Among a big number of CAS we choose the two systems Maple and Mathematica that are used worldwide by students research mathematicians scientists and engineers As in the our previous books we propose the idea to use in parallel both systems Maple and Mathematica since in many research problems frequently it is required to compare independent results

obtained by using different computer algebra systems Maple and or Mathematica at all stages of the solution process One of the main points related to CAS is based on the implementation of a whole solution method e g starting from an analytical derivation of exact governing equations constructing discretizations and analytical formulas of a numerical method performing numerical procedure obtaining various visualizations and comparing the numerical solution obtained with other types of solutions considered in the book e g with asymptotic solution

**Nonlinear Reaction-Diffusion-Convection Equations** Roman Cherniha, Mykola Serov, Oleksii Pliukhin, 2017-11-02 It is well known that symmetry based methods are very powerful tools for investigating nonlinear partial differential equations PDEs notably for their reduction to those of lower dimensionality e g to ODEs and constructing exact solutions This book is devoted to 1 search Lie and conditional non classical symmetries of nonlinear RDC equations 2 constructing exact solutions using the symmetries obtained and 3 their applications for solving some biologically and physically motivated problems The book summarises the results derived by the authors during the last 10 years and those obtained by some other authors

**Partial Differential Equations of Applied Mathematics** Erich Zauderer, 2011-10-24 This new edition features the latest tools for modeling characterizing and solving partial differential equations The Third Edition of this classic text offers a comprehensive guide to modeling characterizing and solving partial differential equations PDEs The author provides all the theory and tools necessary to solve problems via exact approximate and numerical methods The Third Edition retains all the hallmarks of its previous editions including an emphasis on practical applications clear writing style and logical organization and extensive use of real world examples Among the new and revised material the book features A new section at the end of each original chapter exhibiting the use of specially constructed Maple procedures that solve PDEs via many of the methods presented in the chapters The results can be evaluated numerically or displayed graphically Two new chapters that present finite difference and finite element methods for the solution of PDEs Newly constructed Maple procedures are provided and used to carry out each of these methods All the numerical results can be displayed graphically A related FTP site that includes all the Maple code used in the text New exercises in each chapter and answers to many of the exercises are provided via the FTP site A supplementary Instructor s Solutions Manual is available The book begins with a demonstration of how the three basic types of equations parabolic hyperbolic and elliptic can be derived from random walk models It then covers an exceptionally broad range of topics including questions of stability analysis of singularities transform methods Green s functions and perturbation and asymptotic treatments Approximation methods for simplifying complicated problems and solutions are described and linear and nonlinear problems not easily solved by standard methods are examined in depth Examples from the fields of engineering and physical sciences are used liberally throughout the text to help illustrate how theory and techniques are applied to actual problems With its extensive use of examples and exercises this text is recommended for advanced undergraduates and graduate students in engineering science and applied mathematics as well as professionals in any of

these fields It is possible to use the text as in the past without use of the new Maple material      **Mathematical Reviews**  
,2007      *Journal of Physics* ,2001      *Physics Letters* ,2001 General physics atomic physics molecular physics and solid state  
physics      **On The Exact Solution of Nonlinear Differential Equations Using Variational Iteration Method and  
Homotopy Perturbation Method** Mohsen Soori,S. Salman Nourazar,2019-01-16 Research Paper postgraduate from the  
year 2019 in the subject Mathematics Applied Mathematics language English abstract In this paper the Variational Iteration  
Method VIM and the Homotopy Perturbation Method HPM are applied to solve the non linear differential equations The  
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capability and great potential of the methods as effective algorithms in order to obtain the exact solution of non linear  
differential equations      *Zeitschrift Für Naturforschung* ,2008      *Schaum's Outline of Partial Differential Equations* Paul  
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The Enigmatic Realm of **Methods For Constructing Exact Solutions Of Partial Differential Equations**: Unleashing the Language is Inner Magic

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