

Mathematics and Its Applications

V. K. Andreev, O. V. Kaptsov,
V. V. Pukhnachov and
A. A. Rodionov

**Applications of
Group-Theoretical Methods
in Hydrodynamics**



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Applications Of Group Theoretical Methods In Hydrodynamics Mathematics And Its Applications

Huangqi Zhang



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Analytical Approaches to Multidimensional Balance Laws Olga S. Rozanova, 2006 It is difficult to overestimate the importance of mathematical investigation of balance laws They arise in many areas of physics mechanics chemistry biology social sciences In this collective book we concentrate in particular on the equations of continuous medium and related to

them As a rule they are very complicated in their primitive form An important feature of such equations is a possible formation of singularities even in initially smooth solution within a finite time The structure of the singularities can be very complex A natural step in the approach to this problem is the transition despite the three dimensionality of our world to spatially one dimensional model Significant progress has been achieved in this direction Unfortunately the methods of the one dimensional theory as usual cannot be adapted to a case of many spatial variables However there are many attempts to deal with multidimensional problems We would like to present some of them All of the papers are written by outstanding experts representing various schools in mathematics and mechanics Each paper is organised as follows it contains an elementary as far as it is possible introduction to a problem a brief review of previously published results and then original results of the authors are presented

Group-Theoretic Methods in Mechanics and Applied Mathematics D.M. Klimov, 2014-04-21 Group analysis of differential equations has applications to various problems in nonlinear mechanics and physics Group Theoretic Methods in Mechanics and Applied Mathematics systematizes the group analysis of the main postulates of classical and relativistic mechanics Exact solutions are given for the following equations dynamics of rigid body heat transfer wave hydrodynamics Thomas Fermi and more The author pays particular attention to the application of group analysis to developing asymptotic methods for problems with small parameters This book is designed for a broad audience of scientists engineers and students in the fields of applied mathematics mechanics and physics

New Trends in the Applications of Differential Equations in Sciences Angela Slavova, 2025-06-16 This volume compiles selected papers focusing on the applications of differential equations across various scientific domains presented at the International Conference New Trends in the Applications of Differential Equations in Sciences NTADES which took place in Saints Constantine and Helena Bulgaria in July 2024 The book is organized around several key themes including applications in mathematical physics mathematical biology financial mathematics fractional analysis numerical methods and neuroscience The covered applications encompass diverse topics such as mechanics neural networks in insurance credit portfolios predator prey systems with fractional derivatives recent findings regarding COVID 19 epidemic waves memristive cellular nonlinear networks and more By promoting fundamental research in mathematics this book aims to develop new methods and techniques that can effectively address real life challenges through the application of differential equations

The Geometry of Infinite-Dimensional Groups Boris Khesin, Robert Wendt, 2008-09-28 This monograph gives an overview of various classes of infinite dimensional Lie groups and their applications in Hamiltonian mechanics fluid dynamics integrable systems gauge theory and complex geometry The text includes many exercises and open questions

Handbook of Mathematics for Engineers and Scientists Andrei D. Polyanin, Alexander V. Manzhirov, 2006-11-27 Covering the main fields of mathematics this handbook focuses on the methods used for obtaining solutions of various classes of mathematical equations that underlie the mathematical modeling of numerous phenomena and processes in science and technology The authors

describe formulas methods equations and solutions that are frequently used in scientific and engineering applications and present classical as well as newer solution methods for various mathematical equations The book supplies numerous examples graphs figures and diagrams and contains many results in tabular form including finite sums and series and exact solutions of differential integral and functional equations

Applications of Lie Groups to Differential Equations Peter J. Olver, 2012-12-06 This book is devoted to explaining a wide range of applications of continuous symmetry groups to physically important systems of differential equations Emphasis is placed on significant applications of group theoretic methods organized so that the applied reader can readily learn the basic computational techniques required for genuine physical problems The first chapter collects together but does not prove those aspects of Lie group theory which are of importance to differential equations Applications covered in the body of the book include calculation of symmetry groups of differential equations integration of ordinary differential equations including special techniques for Euler Lagrange equations or Hamiltonian systems differential invariants and construction of equations with prescribed symmetry groups group invariant solutions of partial differential equations dimensional analysis and the connections between conservation laws and symmetry groups Generalizations of the basic symmetry group concept and applications to conservation laws integrability conditions completely integrable systems and soliton equations and bi Hamiltonian systems are covered in detail The exposition is reasonably self contained and supplemented by numerous examples of direct physical importance chosen from classical mechanics fluid mechanics elasticity and other applied areas

Introduction to Symmetry Analysis Brian J. Cantwell, 2002-09-23 Symmetry analysis based on Lie group theory is the most important method for solving nonlinear problems aside from numerical computation The method can be used to find the symmetries of almost any system of differential equations and the knowledge of these symmetries can be used to reduce the complexity of physical problems governed by the equations This is a broad self contained introduction to the basics of symmetry analysis for first and second year graduate students in science engineering and applied mathematics Mathematica based software for finding the Lie point symmetries and Lie Bcklund symmetries of differential equations is included on a CD along with more than forty sample notebooks illustrating applications ranging from simple low order ordinary differential equations to complex systems of partial differential equations MathReader 4 0 is included to let the user read the sample notebooks and follow the procedure used to find symmetries

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

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