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INVARIANT SOLUTIONS OF NONLINEAR PHYSICAL PHENOMENA

Group Analysis Of Differential Equations

Nail H. Ibragimov

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approximate symmetry groups for equations with a small parameter group analysis of differential equations with distributions integro differential equations recursions and symbolic software packages The text provides an ideal introduction to the modern group analysis and addresses issues to both beginners and experienced researchers in the application of Lie group methods *Applications of Group-Theoretical Methods in Hydrodynamics* V.K. Andreev,O.V. Kaptsov,Vladislav V. Pukhnachev,A.A. Rodionov,2013-03-14 It was long ago that group analysis of differential equations became a powerful tool for studying nonlinear equations and boundary value problems This analysis was especially fruitful in application to the basic equations of mechanics and physics because the invariance principles are already involved in their derivation It is in no way a coincidence that the equations of hydrodynamics served as the first object for applying the new ideas and methods of group analysis which were developed by 1 V Ovsyannikov and his school The authors rank themselves as disciples of the school The present monograph deals mainly with group theoretic classification of the equations of hydrodynamics in the presence of planar and rotational symmetry and also with construction of exact solutions and their physical interpretation It is worth noting that the concept of exact solution to a differential equation is not defined rigorously different authors understand it in different ways The concept of exact solution expands along with the progress of mathematics solu tions in elementary functions in quadratures and in special functions solutions in the form of convergent series with effectively computable terms solutions whose searching reduces to integrating ordinary differential equations etc We consider it justifiable to enrich the set of exact solutions with rank one and rank two in variant and partially invariant solutions to the equations of hydrodynamics **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 Groups, Invariants, Integrals, and Mathematical Physics Maria Ulan,Stanislav Hronek,2023-05-31 This volume presents lectures given at the Wis a 20 21 Winter School and Workshop Groups Invariants Integrals and Mathematical Physics organized by the Baltic Institute of Mathematics The lectures were dedicated to differential invariants with a focus on Lie groups pseudogroups and their orbit spaces and Poisson structures in algebra and geometry and are included here as lecture notes comprising the first two chapters Following this chapters combine theoretical and applied perspectives to explore topics at the intersection of differential geometry differential equations and category theory Specific topics covered include The multisymplectic and variational nature of Monge Amp re equations in dimension four Integrability of fifth order equations admitting a Lie symmetry algebra Applications of the van

Kampen theorem for groupoids to computation of homotopy types of striped surfaces A geometric framework to compare classical systemsof PDEs in the category of smooth manifolds Groups Invariants Integrals and Mathematical Physics is ideal for graduate students and researchers working in these areas A basic understanding of differential geometry and category theory is assumed **Approximate and Renormgroup Symmetries** N. Kh. Ibragimov,Vladimir F. Kovalev,2009-11-14 Approximate and Renormgroup Symmetries deals with approximate transformation groups symmetries of integro differential equations and renormgroup symmetries It includes a concise and self contained introduction to basic concepts and methods of Lie group analysis and provides an easy to follow introduction to the theory of approximate transformation groups and symmetries of integro differential equations The book is designed for specialists in nonlinear physics mathematicians and non mathematicians interested in methods of applied group analysis for investigating nonlinear problems in physical science and engineering Dr N H Ibragimov is a professor at the Department of Mathematics and Science Research Centre ALGA Sweden He is widely regarded as one of the world s foremost experts in the field of symmetry analysis of differential equations Dr V F Kovalev is a leading scientist at the Institute for Mathematical Modeling Russian Academy of Science Moscow *Waves and Stability in Continuous Media - Proceedings of the 15th Conference on Wascom 2009* Antonio Maria Greco,Salvatore Rionero,Tommaso Ruggeri,2010 This book contains recent contributions in the field of waves propagation and stability in continuous media The volume is the sixth in a series published by World Scientific since 1999 **Equivalence, Invariants and Symmetry** Peter J. Olver,1995-06-30 Drawing on a wide range of mathematical disciplines including geometry analysis applied mathematics and algebra this book presents an innovative synthesis of methods used to study problems of equivalence and symmetry which arise in a variety of mathematical fields and physical applications Systematic and constructive methods for solving equivalence problems and calculating symmetries are developed and applied to a wide variety of mathematical systems including differential equations variational problems manifolds Riemannian metrics polynomials and differential operators Particular emphasis is given to the construction and classification of invariants and to the reductions of complicated objects to simple canonical forms This book will be a valuable resource for students and researchers in geometry analysis algebra mathematical physics and other related fields **CRC Handbook of Lie Group Analysis of Differential Equations** N. Kh. Ibragimov,1994-11-28 Volume 2 offers a unique blend of classical results of Sophus Lie with new modern developments and numerous applications which span a period of more than 100 years As a result this reference is up to date with the latest information on the group theoretic methods used frequently in mathematical physics and engineering Volume 2 is divided into three parts Part A focuses on relevant definitions main algorithms group classification schemes for partial differential equations and multifaceted possibilities offered by Lie group theoretic philosophy Part B contains the group analysis of a variety of mathematical models for diverse natural phenomena It tabulates symmetry groups and solutions for linear equations of mathematical physics classical field theory viscous and non Newtonian

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