

Applications of Lie Groups to Differential Equations (Graduate Texts in Mathematics)

Olver, P.J.

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Applications Of Lie Groups To Differential Equations

Graduate Texts In Mathematics

Peter J. Olver



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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. [Applications of Lie Groups to Differential Equations/Graduate Texts in Mathematics](#)

1999 **Lie Groups, Differential Equations, and Geometry** Giovanni Falcone, 2017-09-19 This book collects a series of contributions addressing the various contexts in which the theory of Lie groups is applied. A preliminary chapter serves the reader both as a basic reference source and as an ongoing thread that runs through the subsequent chapters. From representation theory and Gerstenhaber algebras to control theory from differential equations to Finsler geometry and Lepage manifolds, the book introduces young researchers in Mathematics to a wealth of different topics encouraging a multidisciplinary approach to research. As such, it is suitable for students in doctoral courses and will also benefit researchers who want to expand their field of interest. [An Alternative Approach to Lie Groups and Geometric Structures](#)

Ercüment H. Ortaçgil, 2018-06-28 This book presents a new and innovative approach to Lie groups and differential geometry. Rather than compiling and reviewing the existing material on this classical subject, Professor Ortaçgil instead questions the foundations of the subject and proposes a new direction. Aimed at the curious and courageous mathematician, this book aims to provoke further debate and inspire further development of this original research. **Handbook of**

Differential Equations Daniel Zwillinger, 2014-05-12 Handbook of Differential Equations is a handy reference to many popular techniques for solving and approximating differential equations, including exact analytical methods, approximate analytical methods and numerical methods. Topics covered range from transformations and constant coefficient linear equations to finite and infinite intervals, along with conformal mappings and the perturbation method. Comprised of 180 chapters, this book begins with an introduction to transformations as well as general ideas about differential equations and

how they are solved together with the techniques needed to determine if a partial differential equation is well posed or what the natural boundary conditions are Subsequent sections focus on exact and approximate analytical solution techniques for differential equations along with numerical methods for ordinary and partial differential equations This monograph is intended for students taking courses in differential equations at either the undergraduate or graduate level and should also be useful for practicing engineers or scientists who solve differential equations on an occasional basis

Operator Theory, Systems Theory and Scattering Theory: Multidimensional Generalizations Daniel Alpay, Victor Vinnikov, 2006-03-30 This volume contains a selection of papers from experts in the area on multidimensional operator theory Topics considered include the non commutative case function theory in the polydisk hyponormal operators hyperanalytic functions and holomorphic deformations of linear differential equations Operator Theory Systems Theory and Scattering Theory will be of interest to a wide audience of pure and applied mathematicians electrical engineers and theoretical physicists

The Geometrical Study of Differential Equations Joshua Allensworth Leslie, Thierry P. Robart, 2001 This volume contains papers based on some of the talks given at the NSF CBMS conference on The Geometrical Study of Differential Equations held at Howard University Washington DC The collected papers present important recent developments in this area including the treatment of nontransversal group actions in the theory of group invariant solutions of PDEs a method for obtaining discrete symmetries of differential equations the establishment of a group invariant version of the variational complex based on a general moving frame construction the introduction of a new variational complex for the calculus of difference equations and an original structural investigation of Lie Backlund transformations The book opens with a modern and illuminating overview of Lie's line sphere correspondence and concludes with several interesting open problems arising from symmetry analysis of PDEs It offers a rich source of inspiration for new or established researchers in the field This book can serve nicely as a companion volume to a forthcoming book written by the principle speaker at the conference Professor Niky Kamran to be published in the AMS series CBMS Regional Conference Series in Mathematics

Selected Topics in the Geometrical Study of Differential Equations Niky Kamran, 2002-01-01 The geometrical study of differential equations has a long and distinguished history dating back to the classical investigations of Sophus Lie Gaston Darboux and Elie Cartan Currently these ideas occupy a central position in several areas of pure and applied mathematics In this book the author gives an overview of a number of significant ideas and results developed over the past decade in the geometrical study of differential equations Topics covered in the book include symmetries of differential equations and variational problems the variational bi complex and conservation laws geom

Geometry of Manifolds with Non-negative Sectional Curvature Owen Dearnicott, Fernando Galaz-García, Lee Kennard, Catherine Searle, Gregor Weingart, Wolfgang Ziller, 2014-07-22 Providing an up to date overview of the geometry of manifolds with non negative sectional curvature this volume gives a detailed account of the most recent research in the area The lectures cover a wide range of topics such as general isometric

group actions circle actions on positively curved four manifolds cohomogeneity one actions on Alexandrov spaces isometric torus actions on Riemannian manifolds of maximal symmetry rank n Sasakian manifolds isoparametric hypersurfaces in spheres contact CR and CR submanifolds Riemannian submersions and the Hopf conjecture with symmetry Also included is an introduction to the theory of exterior differential systems

Introduction to Lie Algebras J. I. Hall, 2025-01-03 Being both a beautiful theory and a valuable tool Lie algebras form a very important area of mathematics This modern introduction targets entry level graduate students It might also be of interest to those wanting to refresh their knowledge of the area and be introduced to newer material Infinite dimensional algebras are treated extensively along with the finite dimensional ones After some motivation the text gives a detailed and concise treatment of the Killing Cartan classification of finite dimensional semisimple algebras over algebraically closed fields of characteristic 0 Important constructions such as Chevalley bases follow The second half of the book serves as a broad introduction to algebras of arbitrary dimension including Kac Moody KM loop and affine KM algebras Finite dimensional semisimple algebras are viewed as KM algebras of finite dimension their representation and character theory developed in terms of integrable representations The text also covers triangular decomposition after Moody and Pianzola and the BGG category $\mathcal{O}$ A lengthy chapter discusses the Virasoro algebra and its representations Several applications to physics are touched on via differential equations Lie groups superalgebras and vertex operator algebras Each chapter concludes with a problem section and a section on context and history There is an extensive bibliography and appendices present some algebraic results used in the book

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