

R. Seshadri
T.Y. Na

Group Invariance in Engineering Boundary Value Problems



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Group Invariance in Engineering Boundary Value Problems R. Seshadri, T.Y. Na, 2012-12-06 REFEREN CES 156 9 Transforma tion of a Boundary Value Problem to an Initial Value Problem 157 9 0 Introduction 157 9 1 Blasius Equation in Boundary Layer Flow 157 9 2 Longitudinal Impact of Nonlinear Viscoplastic Rods 163 9 3 Summary 168 REFERENCES 168 10 From Nonlinear to Linear Differential Equa tions Using Transformation Groups 169 10 1 From Nonlinear to Linear Differential Equations 170 10 2 Application to Ordinary Differential Equations Bernoulli s Equation 173 10 3 Application to Partial Differential Equations A Nonlinear Chemical Exchange Process 178 10 4 Limitations of the Inspectional Group Method 187 10 5 Summary 188 REFERENCES 188 11 Miscellaneous Topics 190 11 1 Reduction of Differential Equations to Algebraic Equations 190 11 2 Reduction of Order of an Ordinary Differential Equation 191 11 3 Transformat ion From Ordinary to Partial Differential Equations Search for First Integrals 193 11 4 Reduction of Number of Variables by Multiparameter Groups of Transformations 194 11 5 Self Similar Solutions of the First and Second Kind 202 11 6 Normalized Representation and Dimensional Consideration 204 REFERENCES 206 Problems 208 220 Index Chapter 1 INTRODUCTION AND GENERAL OUTLINE Physical problems in engineering science are often described by dif ferential models either linear or nonlinear There is also an abundance of transformations of various types that appear in the literature of engineer ing and mathematics that are generally aimed at obtaining some sort of simplification of a differential model **Group Invariance in Engineering Boundary Value Problems** R. Seshadri, 1985-03-01 **Nonlinear Boundary Value Problems in Science and Engineering** C. Rogers, W. F. Ames, 1989-11-14 Overall our object has been to provide an applications oriented text that is reasonably self contained It has been used as the basis for a graduate level course both at the University of Waterloo and at the Centro Studie Applicazioni in Tecnologie Avante Bari Italy The text is aimed in the main at applied mathematicians with a strong interest in physical applications or at engineers working in theoretical mechanics

Nonlinear Equations in the Applied Sciences W. F. Ames, 1991-08-16 Nonlinear Equations in the Applied Sciences *Symmetry Analysis and Exact Solutions of Equations of Nonlinear Mathematical Physics* W.I. Fushchich, W.M. Shtelen, N.I. Serov, 2013-03-14 by spin or spin s 1 2 field equations is emphasized because their solutions can be used for constructing solutions of other field equations insofar as fields with any spin may be constructed from spin s 1 2 fields A brief account of the main ideas of the book is presented in the Introduction The book is largely based on the authors works 55 109 176 189 13 16 7 14 23 24 carried out in the Institute of Mathematics Academy of Sciences of the Ukraine References to other sources is not intended to imply completeness As a rule only those works used directly are cited The authors wish to express their gratitude to Academician Yu A Mitropoi sky and to Academician of Academy of Sciences of the Ukraine O S Parasyuk for basic support and stimulation over the course of many years to our cowork ers in the Department of Applied Studies LA Egorchenko R Z Zhdanov A G Nikitin LV Revenko V L Lagno and I M Tsifra for assistance with the manuscript

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

Waves And Wave Forces On Coastal And Ocean Structures Robert T Hudspeth, 2006-04-26 This book focuses on 1 the physics of the fundamental dynamics of fluids and of semi immersed Lagrangian solid bodies that are responding to wave induced loads 2 the scaling of dimensional equations and boundary value problems in order to determine a small dimensionless parameter that may be applied to linearize the equations and the boundary value problems so as to obtain a linear system 3 the replacement of differential and integral calculus with algebraic equations that require only algebraic substitutions instead of differentiations and integrations and 4 the importance of comparing numerical and analytical computations with data from laboratories and or nature

Handbook of Differential Equations: Stationary Partial Differential Equations Michel Chipot, 2007-05-03 A collection of self contained state of the art surveys The authors have made an effort to achieve readability for mathematicians and scientists from other fields for this series of handbooks to be a new reference for research learning and teaching written by well known experts in the field self contained volume in series covering one of the most rapid developing topics in mathematics

Applied Mechanics Reviews ,1967 **Control Systems** Vsevolod Kuntsevich, Vyacheslav Gubarev, Yuriy Kondratenko, 2022-09-01 In recent years a considerable amount of effort has been devoted both in industry and academia towards the development of advanced methods of control theory with focus on its practical implementation in various fields of human activity such as space control robotics control applications in marine systems control processes in agriculture and food production Control Systems Theory and Applications consists of selected best papers which were presented at XXIV International conference on automatic control Automatics 2017 September 13 15 2017 Kyiv Ukraine organized by Ukrainian Association on Automatic Control National member organization of IFAC International Federation on Automatic Control and National University of Life and Environmental Sciences of Ukraine More than 120 presentations were discussed at the conference with participation of the scientists from the numerous countries The book is divided into two main parts a first on Theory of Automatic Control 5 chapters and the second

on Control Systems Applications 8 chapters The selected chapters provide an overview of challenges in the area of control systems design modeling engineering and implementation and the approaches and techniques that relevant research groups within this area are employing to try to resolve these This book on advanced methods of control theory and successful cases in the practical implementation is ideal for personnel in modern technological processes automation and SCADA systems robotics space and marine industries as well as academic staff and master research students in computerized control systems automatized and computer integrated systems electrical and mechanical engineering

CRC Concise Encyclopedia of Mathematics Eric W. Weisstein, 2002-12-12 Upon publication the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the d

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

Second Course in Ordinary Differential Equations for Scientists and Engineers Mayer Humi, William Miller, 2012-12-06 The world abounds with introductory texts on ordinary differential equations and rightly so in view of the large number of students taking a course in this subject However for some time now there is a growing need for a junior senior level book on the more advanced topics of differential equations In fact the number of engineering and science students requiring a second course in these topics has been increasing This book is an outgrowth of such courses taught by us in the last ten years at Worcester Polytechnic Institute The book attempts to blend mathematical theory with nontrivial applications from various disciplines It does not contain lengthy proofs of mathematical theorems as this would be inappropriate for its intended audience Nevertheless in each case we motivated these theorems and their practical use through examples and in some cases an intuitive proof is included In view of this approach the book could be

used also by aspiring mathematicians who wish to obtain an overview of the more advanced aspects of differential equations and an insight into some of its applications We have included a wide range of topics in order to afford the instructor the flexibility in designing such a course according to the needs of the students Therefore this book contains more than enough material for a one semester course

Stochastic Models, Information Theory, and Lie Groups, Volume 2 Gregory S. Chirikjian, 2011-11-15 This unique two volume set presents the subjects of stochastic processes information theory and Lie groups in a unified setting thereby building bridges between fields that are rarely studied by the same people Unlike the many excellent formal treatments available for each of these subjects individually the emphasis in both of these volumes is on the use of stochastic geometric and group theoretic concepts in the modeling of physical phenomena Stochastic Models Information Theory and Lie Groups will be of interest to advanced undergraduate and graduate students researchers and practitioners working in applied mathematics the physical sciences and engineering Extensive exercises motivating examples and real world applications make the work suitable as a textbook for use in courses that emphasize applied stochastic processes or differential geometry

Computational Methods in Engineering Boundary Value Problems T.Y. Na, 1980-01-18 Computational Methods in Engineering Boundary Value Problems

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Regents' Proceedings University of Michigan. Board of Regents, 1999 *Approximation, Optimization, and Computing* Alan Greenwell Law, Chung-lie Wang, 1990 This volume consists of 101 papers in the areas of approximation optimization and computing and applications Under the sponsorship of IMACS The International Association for Mathematics and Computers in Simulation it represents a collaborative venture initiated in 1986 between the Dalian University of Technology and the University of Regina A primary goal of the project was to encourage research papers reflecting emerging directions within theory and applications Covered are the following analytic or discrete approximations optimization applications deterministic or stochastic processes programming and applications of theory or techniques in engineering or other sciences

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Nuclear Reactors Amir Mesquita, 2012-02-10 This book presents a comprehensive review of studies in nuclear reactors technology from authors across the globe Topics discussed in this compilation include thermal hydraulic investigation of TRIGA type research reactor materials testing reactor and high temperature gas cooled reactor the use of radiogenic lead recovered from ores as a coolant for fast reactors decay heat in reactors and spent fuel pools present status of two phase flow studies in reactor components thermal aspects of conventional and alternative fuels in supercritical water cooled reactor two phase flow coolant behavior in boiling water reactors under earthquake condition simulation of nuclear reactors core fuel life control in light water reactors methods for monitoring and controlling power in nuclear reactors structural materials modeling for the next generation of nuclear reactors application of the results of finite group theory in reactor physics and the usability of vermiculite as a shield for nuclear reactor

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