

LIE-BÄCKLUND TRANSFORMATIONS IN APPLICATIONS

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Applied Mathematics

Lie Backlund Transformations In Applications

George W. Bluman, Sukeyuki Kumei



Lie Backlund Transformations In Applications:

Lie-Backlund Transformations in Applications Robert L. Anderson, Nail H. Ibragimov, 1979-06-01 This title presents an introduction to the classical treatment of Backlund and general surface transformations and includes detailed and accessible techniques for constructing both groups of transformations which will be of great value to the scientist and engineer in the analysis of mathematical models of physical phenomena Classical and recent examples of Backlund transformations as applied to geometry nonlinear optics turbulence models nonlinear waves and quantum mechanics are given The authors discuss applications of Lie Backlund transformations in mechanics quantum mechanics gas dynamics hydrodynamics and relativity

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Ba?cklund Transformations and Their Applications Rogers, 1982-06-18

Bäcklund and Darboux Transformations A. A. Coley, 2001 This book is devoted to a classical topic that has undergone rapid and fruitful development over the past 25 years namely Backlund and Darboux transformations and their applications in the theory of integrable systems also known as soliton theory The book consists of two parts The first is a series of introductory pedagogical lectures presented by leading experts in the field They are devoted respectively to Backlund transformations of Painleve equations to the dressing method and Backlund and Darboux transformations and to the classical geometry of Backlund transformations and their applications to soliton theory The second part contains original contributions that represent new developments in the theory and applications of these transformations Both the introductory lectures and the original talks were presented at an International Workshop that took place in Halifax Nova Scotia Canada This volume covers virtually all recent developments in the theory and applications of Backlund and Darboux transformations

Symmetries of Partial Differential Equations A.M. Vinogradov, 2012-12-06 2 The authors of these issues involve not only mathematicians but also specialists in mathematical physics and computer sciences So here the reader will find different points of view and approaches to the considered field A M VINOGRADOV 3 Acta Applicandae Mathematicae 15 3 21 1989 1989 Kluwer Academic Publishers Symmetries and Conservation Laws of Partial Differential Equations Basic Notions

and Results A M VINOORADOV Department of Mathematics Moscow State University 117234 Moscow U S S R Received 22 August 1988 Abstract The main notions and results which are necessary for finding higher symmetries and conservation laws for general systems of partial differential equations are given These constitute the starting point for the subsequent papers of this volume Some problems are also discussed AMS subject classifications 1980 35A30 58005 58035 58H05 Key words Higher symmetries conservation laws partial differential equations infinitely prolonged equations generating functions o

Introduction In this paper we present the basic notions and results from the general theory of local symmetries and conservation laws of partial differential equations More exactly we will focus our attention on the main conceptual points as well as on the problem of how to find all higher symmetries and conservation laws for a given system of partial differential equations Also some general views and perspectives will be discussed Mathematical Conversations Robin Wilson,Jeremy Gray,2012-12-06 Approximately fifty articles that were published in The Mathematical Intelligencer during its first eighteen years The selection demonstrates the wide variety of attractive articles that have appeared over the years ranging from general interest articles of a historical nature to lucid expositions of important current discoveries Each article is introduced by the editors The Mathematical Intelligencer publishes stylish well illustrated articles rich in ideas and usually short on proofs Many but not all articles fall within the reach of the advanced undergraduate mathematics major This book makes a nice addition to any undergraduate mathematics collection that does not already sport back issues of The Mathematical Intelligencer D V Feldman University of New Hampshire CHOICE Reviews June 2001 Geometrical Theory Of Dynamical Systems And Fluid Flows (Revised Edition) Tsutomu (Jixin) Kambe,2009-12-28 This is an introductory textbook on the geometrical theory of dynamical systems fluid flows and certain integrable systems The topics are interdisciplinary and extend from mathematics mechanics and physics to mechanical engineering and the approach is very fundamental The main theme of this book is a unified formulation to understand dynamical evolutions of physical systems within mathematical ideas of Riemannian geometry and Lie groups by using well known examples Underlying mathematical concepts include transformation invariance covariant derivative geodesic equation and curvature tensors on the basis of differential geometry theory of Lie groups and integrability These mathematical theories are applied to physical systems such as free rotation of a top surface wave of shallow water action principle in mechanics diffeomorphic flow of fluids vortex motions and some integrable systems In the latest edition a new formulation of fluid flows is also presented in a unified fashion on the basis of the gauge principle of theoretical physics and principle of least action along with new type of Lagrangians A great deal of effort has been directed toward making the description elementary clear and concise to provide beginners easy access to the topics **Solitons and the Inverse Scattering Transform** Mark J. Ablowitz,Harvey Segur,2006-05-15 A study by two of the major contributors to the theory of the inverse scattering transform and its application to problems of nonlinear dispersive waves that arise in fluid dynamics plasma physics nonlinear optics particle physics crystal lattice theory nonlinear

circuit theory and other areas A soliton is a localised pulse like nonlinear wave that possesses remarkable stability properties Typically problems that admit soliton solutions are in the form of evolution equations that describe how some variable or set of variables evolve in time from a given state The equations may take a variety of forms for example PDEs differential difference equations partial difference equations and integrodifferential equations as well as coupled ODEs of finite order What is surprising is that although these problems are nonlinear the general solution that evolves from almost arbitrary initial data may be obtained without approximation

Encyclopaedia of Mathematics Michiel Hazewinkel, 2012-12-06 This is the second supplementary volume to Kluwer's highly acclaimed eleven volume *Encyclopaedia of Mathematics* This additional volume contains nearly 500 new entries written by experts and covers developments and topics not included in the previous volumes These entries are arranged alphabetically throughout and a detailed index is included This supplementary volume enhances the existing eleven volumes and together these twelve volumes represent the most authoritative comprehensive and up to date *Encyclopaedia of Mathematics* available

Symmetries and Differential Equations George W. Bluman, Sukeyuki Kumei, 2013-03-14 A major portion of this book discusses work which has appeared since the publication of the book *Similarity Methods for Differential Equations* Springer Verlag 1974 by the first author and J D Cole The present book also includes a thorough and comprehensive treatment of Lie groups of transformations and their various uses for solving ordinary and partial differential equations No knowledge of group theory is assumed Emphasis is placed on explicit computational algorithms to discover symmetries admitted by differential equations and to construct solutions resulting from symmetries This book should be particularly suitable for physicists applied mathematicians and engineers Almost all of the examples are taken from physical and engineering problems including those concerned with heat conduction wave propagation and fluid flows A preliminary version was used as lecture notes for a two semester course taught by the first author at the University of British Columbia in 1987-88 to graduate and senior undergraduate students in applied mathematics and physics Chapters 1 to 4 encompass basic material More specialized topics are covered in Chapters 5 to 7

Transformation Groups Applied to Mathematical Physics Nail H. Ibragimov, 1984-12-31 Approach your problems from the right It isn't that they can't see the solution end and begin with the answers Then It is that they can't see the problem one day perhaps you will find the final question G K Chesterton The Scandal of Father Brown The Point of a Pin The Hermit Clad in Crane Feathers in R van Gulik's The Chinese Maze Murders Growing specialization and diversification have brought a host of monographs and textbooks on increasingly specialized topics However the tree of knowledge of mathematics and related fields does not grow only by putting forth new branches It also happens quite often in fact that branches which were thought to be completely disparate are suddenly seen to be related Further the kind and level of sophistication of mathematics applied in various sciences has changed drastically in recent years measure theory is used non trivially in gional and theoretical economics algebraic geometry interacts with physics the Minkowsky lemma coding theory and the structure of

water meet one another in packing and covering theory quantum fields crystal defects and mathematical programming profit from homotopy theory Lie algebras are relevant to filtering and prediction and electrical engineering can use Stein spaces And in addition to this there are such new emerging subdisciplines as completely integrable systems chaos synergetics and large scale order which are almost impossible to fit into the existing classification schemes They draw upon widely different sections of mathematics Mathematics of the USSR ,1967 **Symmetries and Integrability of Difference Equations**

Decio Levi,Raphaël Rebelo,Pavel Winternitz,2017-06-30 This book shows how Lie group and integrability techniques originally developed for differential equations have been adapted to the case of difference equations Difference equations are playing an increasingly important role in the natural sciences Indeed many phenomena are inherently discrete and thus naturally described by difference equations More fundamentally in subatomic physics space time may actually be discrete Differential equations would then just be approximations of more basic discrete ones Moreover when using differential equations to analyze continuous processes it is often necessary to resort to numerical methods This always involves a discretization of the differential equations involved thus replacing them by difference ones Each of the nine peer reviewed chapters in this volume serves as a self contained treatment of a topic containing introductory material as well as the latest research results and exercises Each chapter is presented by one or more early career researchers in the specific field of their expertise and in turn written for early career researchers As a survey of the current state of the art this book will serve as a valuable reference and is particularly well suited as an introduction to the field of symmetries and integrability of difference equations Therefore the book will be welcomed by advanced undergraduate and graduate students as well as by more advanced researchers Modern Group Analysis: Advanced Analytical and Computational Methods in Mathematical Physics

N.H. Ibragimov,M. Torrisi,A. Valenti,2011-06-27 On the occasion of the 150th anniversary of Sophus Lie an International Workshop Modern Group Analysis advanced analytical and computational methods in mathematical physics has been organized in Acireale Catania Sicily October 27 31 1992 The Workshop was aimed to enlighten the present state of this rapidly expanding branch of applied mathematics Main topics of the Conference were classical Lie groups applied for constructing invariant solutions and conservation laws conditional partial symmetries Backlund transformations approximate symmetries group analysis of finite difference equations problems of group classification software packages in group analysis The success of the Workshop was due to the participation of many experts in Group Analysis from different countries This book consists of selected papers presented at the Workshop We would like to thank the Scientific Committee for the generous support of recommending invited lectures and selecting the papers for this volume as well as the members of the Organizing Committee for their help The Workshop was made possible by the financial support of several sponsors that are listed below It is also a pleasure to thank our colleague Enrico Gregorio for his invaluable help of this volume *Nonlinear Evolution Equations and Dynamical Systems* Sandra Carillo,Orlando Ragnisco,2012-12-06 Nonlinear Evolution Equations and

Dynamical Systems NEEDS provides a presentation of the state of the art Except for a few review papers the 40 contributions are intentionally brief to give only the gist of the methods proofs etc including references to the relevant literature This gives a handy overview of current research activities Hence the book should be equally useful to the senior researcher as well as the colleague just entering the field Keypoints treated are i integrable systems in multidimensions and associated phenomenology dromions ii criteria and tests of integrability e g Painlevé test iii new developments related to the scattering transform iv algebraic approaches to integrable systems and Hamiltonian theory e g connections with Young Baxter equations and Kac Moody algebras v new developments in mappings and cellular automata vi applications to general relativity condensed matter physics and oceanography

Partially Integrable Evolution Equations in Physics R. Conte, N. Boccara, 2012-12-06 In the many physical phenomena ruled by partial differential equations two extreme fields are currently overcrowded due to recent considerable developments 1 the field of completely integrable equations whose recent advances are the inverse spectral transform the recursion operator underlying Hamiltonian structures Lax pairs etc 2 the field of dynamical systems often built as models of observed physical phenomena turbulence intermittency Poincaré sections transition to chaos etc In between there is a very large region where systems are neither integrable nor nonintegrable but partially integrable and people working in the latter domain often know methods from either 1 or 2 Due to the growing interest in partially integrable systems we decided to organize a meeting for physicists active or about to undertake research in this field and we thought that an appropriate form would be a school Indeed some of the above mentioned methods are often adaptable outside their original domain and therefore worth to be taught in an interdisciplinary school One of the main concerns was to keep a correct balance between physics and mathematics and this is reflected in the list of courses

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

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