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many physical phenomena are described by nonlinear evolution equation those that are integrable provide various mathematical methods presented by experts in this tutorial book to find special analytic solutions to both integrable and partially integrable equations the direct method to build solutions includes the analysis of singularities à la

painlevé lie symmetries leaving the equation invariant extension of the hirota method construction of the nonlinear superposition formula the main inverse method described here relies on the bi hamiltonian structure of integrable equations the book also presents some extension to equations with discrete independent and dependent variables the different chapters face from different points of view the theory of exact solutions and of the complete integrability of nonlinear evolution equations several examples and applications to concrete problems allow the reader to experience directly the power of the different machineries involved

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

international isaac international society for analysis its applications and computation congresses have been held every second year since 1997 the proceedings report on a regular basis on the progresses of the field in recent years where the most active areas in analysis its applications and computation are covered plenary lectures also highlight recent results this volume concentrates mainly on partial differential equations but also includes function spaces operator theory integral transforms and equations potential theory complex analysis and generalizations stochastic analysis inverse problems homogenization continuum mechanics mathematical biology and medicine with over 350 participants attending the congress the book comprises 140 papers from 211 authors the volume also serves for transferring personal information about the isaac and its members this volume includes citations for o besov v burenkov and r p gilbert on the occasion of their anniversaries

jets a maple package for formal differential geometry computing stratifications of quotients of finite groups and an application to shape memory alloy a mupad library for differential equation algebraic identification algorithm and application to dynamical systems cooperation between a dynamic geometry environment and a computer algebra system for geometric discovery on the stability of steady motions of a solar sail satellite application of computer algebra for investigation of a group properties of the navier stokes equations for compressible viscous heat conducting gas mathematica and nilpotent lie superalgebras neighborhoods of an ordinary linear differential equation invariants of finite groups and involutive division symbolic computation and boundary

conditions for the wave equation parametric systems of linear congruences bifurcation analysis of low resonant case of the generalized henon heiles system an involutive reduction method to find invariant solutions for partial differential equations recurrence functions and numerical characteristics of graphs a new combinatorial algorithm for large markov chains groome tool supported graphical object oriented modelling for computer algebra and scientific computing construction of janet bases i monomial bases construction of janet bases ii polynomial bases low dimensional quasi filiform lie algebras with great length algebraic methods for sectioning parametric surfaces the methods of computer algebra and the arnold moser theorem symbolic algorithms of algebraic perturbation theory hydrogen atom in the field of distant charge perturbation versus differentiation indices employment of the gröbner bases in analysis of systems having algebraic first integrals coalgebra structures on 1 homological models for commutative differential graded algebras conservative finite difference schemes for cosymmetric systems a mathematica solver for two point singularly perturbed boundary value problems a new algorithm for computing cohomologies of lie superalgebras parallel computing with mathematica solution of systems of linear diophantine equations symopt symbolic parametric mathematical programming representing graph properties by polynomial ideals parametric g1 blending of several surfaces a method of logic deduction and verification in kbs using positive integers progressive long waves on a slope a new solution to the euler equation the method of newton polyhedra for investigating singular positions of some mechanisms algebraic predicates for empirical data fractional driftless fokker planck equation with power law diffusion coefficients factorization of overdetermined systems of linear partial differential equations with finite dimensional solution space semilinear motion planning among moving objects in redlog author index

original articles on all aspects of numerical mathematics book reviews mathematical tables and technical notes covers advances in numerical analysis application of computer methods high speed calculating and other aids to computation

the study of nonlinear dift erential equations was s lie s motivation when he created what is now known as lie groups and lie algebras nevertheless although lie group and algebra theory flourished and was applied to a number of dift erent physical situations up to the point that a lot if not most of current fun damental elementary particles physics is actually physical interpretation of group theory the application of symmetry methods to dift erential equations remained a sleeping beauty for many many years the main reason for this lies probably in a fact that is quite clear to any beginner in the field namely the formidable comple rity ofthe algebraic not numerical computations involved

in lie method i think this does not account completely for this oblivion in other fields of physics very hard analytical computations have been worked through anyway one easily understands that systems of dolens of coupled pdes do not seem very attractive nor a very practical computational tool

this book is a printed edition of the special issue lie theory and its applications that was published in symmetry

this volume contains the proceedings of the ifac workshop on singular solutions and perturbations in control systems sspcs 97 held at pereslavl zalessky russia on 7 11 july 1997 the workshop was sponsored by ifac and organized jointly by the russian national committee of automatic control the program systems institute and the institute for information transmission problems at the russian academy of sciences and the university of pereslavl the objective of this workshop was to provide an international forum for the discussion of recent developments and advances in the fields of singular control problems impulsive control singular perturbations technique in control systems computational problems and others the workshop was devoted both to theoretical and applicative aspects of the so called nonclassical problems in the area of control theory such as problems with singular perturbations impulse and generalized controls these problems arise in various areas of applications including mechanics information processing medicine and economy at the same time they stimulate the development of new mathematical tools in the classical theory of control and differential equations all papers included in this volume are given in the form presented by the authors

this book presents the theory of asymptotic integration for both linear differential and difference equations this type of asymptotic analysis is based on some fundamental principles by norman levinson while he applied them to a special class of differential equations subsequent work has shown that the same principles lead to asymptotic results for much wider classes of differential and also difference equations after discussing asymptotic integration in a unified approach this book studies how the application of these methods provides several new insights and frequent improvements to results found in earlier literature it then continues with a brief introduction to the relatively new field of asymptotic integration for dynamic equations on time scales asymptotic integration of differential and difference equations is a self contained and clearly structured presentation of some of the most important results in asymptotic integration and the techniques used in this field it will appeal to researchers in asymptotic integration as well to non experts who are interested in the asymptotic analysis of linear differential and difference equations it will additionally be of interest to

students in mathematics applied sciences and engineering linear algebra and some basic concepts from advanced calculus are prerequisites

theory and application of special functions contains the proceedings of the advanced seminar on special functions sponsored by the mathematics research center of the university of wisconsin madison and held from march 31 to april 2 1975 the seminar tackled the theory and application of special functions and covered topics ranging from the asymptotic estimation of special functions to association schemes and coding theory some interesting results conjectures and problems are given comprised of 13 chapters this book begins with a survey of computational methods in special functions followed by a discussion on unsolved problems in the asymptotic estimation of special functions the reader is then introduced to periodic bernoulli numbers summation formulas and applications problems and prospects for basic hypergeometric functions and linear growth models with many types and multidimensional hahn polynomials subsequent chapters explore two variable analogues of the classical orthogonal polynomials special functions of matrix and single argument in statistics and some properties of the determinants of orthogonal polynomials this monograph is intended primarily for students and practitioners of mathematics

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