Representation of Lie Groups and Special Functions

Volume 1: Simplest Lie Groups, Special Functions and Integral Transforms

by

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Representation Of Lie Groups And Special Functions Recent Advances

Shouchuan Hu,Nikolaos S. Papageorgiou

Representation Of Lie Groups And Special Functions Recent Advances:

Representation of Lie Groups and Special Functions N. Ja. Vilenkin,A. U. Klimyk,2014-01-15   *Representation of Lie Groups and Special Functions* Naum I︠A︡kovlevich Vilenkin,Anatoliĭ Ul'i︠a︡novich Klimyk,1995 The present book is a continuation of the three volume work Representation of Lie Groups and Special Functions by the same authors Here they deal with the exposition of the main new developments in the contemporary theory of multivariate special functions bringing together material that has not been presented in monograph form before The theory of orthogonal symmetric polynomials Jack polynomials Macdonald s polynomials and others and multivariate hypergeometric functions associated to symmetric polynomials are treated Multivariate hypergeometric functions multivariate Jacobi polynomials and h harmonic polynomials connected with root systems and Coxeter groups are introduced Also the theory of Gel fand hypergeometric functions and the theory of multivariate hypergeometric series associated to Clebsch Gordan coefficients of the unitary group U n is given The volume concludes with an extensive bibliography For research mathematicians and physicists postgraduate students in mathematics and mathematical and theoretical physics   **Representation of Lie Groups and Special Functions** N.Ja. Vilenkin,A.U. Klimyk,2013-04-17 In 1991 1993 our three volume book Representation of Lie Groups and Spe cial Functions was published When we started to write that book in 1983 editors of Kluwer Academic Publishers expressed their wish for the book to be of encyclopaedic type on the subject Interrelations between representations of Lie groups and special functions are very wide This width can be explained by existence of different types of Lie groups and by richness of the theory of their rep resentations This is why the book mentioned above spread to three big volumes Influence of representations of Lie groups and Lie algebras upon the theory of special functions is lasting This theory is developing further and methods of the representation theory are of great importance in this development When the book Representation of Lie Groups and Special Functions vol 1 3 was under preparation new directions of the theory of special functions connected with group representations appeared New important results were discovered in the traditional directions This impelled us to write a continuation of our three volume book on relationship between representations and special functions The result of our further work is the present book The three volume book published before was devoted mainly to studying classical special functions and orthogonal polynomials by means of matrix elements Clebsch Gordan and Racah coefficients of group representations and to generaliza tions of classical special functions that were dictated by matrix elements of repre sentations   **Representation of Lie Groups and Special Functions** Naum I︠A︡kovlevich Vilenkin,A.U. Klimyk,1991-11-30 This is the first of three major volumes which present a comprehensive treatment of the theory of the main classes of special functions from the point of view of the theory of group representations This volume deals with the properties of classical orthogonal polynomials and special functions which are related to representations of groups of matrices of second order and of groups of triangular matrices of third order This material forms the basis of many results

concerning classical special functions such as Bessel MacDonald Hankel Whittaker hypergeometric and confluent hypergeometric functions and different classes of orthogonal polynomials including those having a discrete variable Many new results are given The volume is self contained since an introductory section presents basic required material from algebra topology functional analysis and group theory For research mathematicians physicists and engineers

Integrability, Supersymmetry and Coherent States Şengül Kuru,Javier Negro,Luis M. Nieto,2019-07-12 This volume shares and makes accessible new research lines and recent results in several branches of theoretical and mathematical physics among them Quantum Optics Coherent States Integrable Systems SUSY Quantum Mechanics and Mathematical Methods in Physics In addition to a selection of the contributions presented at the 6th International Workshop on New Challenges in Quantum Mechanics Integrability and Supersymmetry held in Valladolid Spain 27 30 June 2017 several high quality contributions from other authors are also included The conference gathered 60 participants from many countries working in different fields of Theoretical Physics and was dedicated to Prof V ronique Hussin an internationally recognized expert in many branches of Mathematical Physics who has been making remarkable contributions to this field since the 1980s The reader will find interesting reviews on the main topics from internationally recognized experts in each field as well as other original contributions all of which deal with recent applications or discoveries in the aforementioned areas

Quantum Groups and Their Representations Anatoli Klimyk,Konrad Schmüdgen,2012-12-06 This book start with an introduction to quantum groups for the beginner and continues as a textbook for graduate students in physics and in mathematics It can also be used as a reference by more advanced readers The authors cover a large but well chosen variety of subjects from the theory of quantum groups quantized universal enveloping algebras quantized algebras of functions and q deformed algebras q oscillator algebras their representations and corepresentations and noncommutative differential calculus The book is written with potential applications in physics and mathematics in mind The basic quantum groups and quantum algebras and their representations are given in detail and accompanied by explicit formulas A number of topics and results from the more advanced general theory are developed and discussed **Oscillation Theory of Two-Term Differential Equations** Uri Elias,2013-03-14 Oscillation theory was born with Sturm s work in 1836 It has been flourishing for the past fifty years Nowadays it is a full self contained discipline turning more towards nonlinear and functional differential equations Oscillation theory flows along two main streams The first aims to study prop erties which are common to all linear differential equations The other restricts its area of interest to certain families of equations and studies in maximal details phenomena which characterize only those equations Among them we find third and fourth order equations self adjoint equations etc Our work belongs to the second type and considers two term linear equations modeled after y n p x y O More generally we investigate LnY p x y 0 where Ln is a disconjugate operator and p x has a fixed sign These equations enjoy a very rich structure and are the natural generalization of the Sturm Liouville operator Results about such equations

are distributed over hundreds of research papers many of them are reinvented again and again and the same phenomenon is frequently discussed from various points of view and different definitions of the authors Our aim is to introduce an order into this plenty and arrange it in a unified and self contained way The results are readapted and presented in a unified approach In many cases completely new proofs are given and in no case is the original proof copied verbatim Many new results are included   Singular Quadratic Forms in Perturbation Theory Volodymyr Koshmanenko,2012-12-06 The notion of singular quadratic form appears in mathematical physics as a tool for the investigation of formal expressions corresponding to perturbations devoid of operator sense Numerous physical models are based on the use of Hamiltonians containing perturba tion terms with singular properties Typical examples of such expressions are Schrodin ger operators with O potentials AD and Hamiltonians in quantum field theory with perturbations given in terms of operators of creation and annihilation P

Trigonometric Fourier Series and Their Conjugates L. Zhizhiashvili,2012-12-06 Research in the theory of trigonometric series has been carried out for over two centuries The results obtained have greatly influenced various fields of mathematics mechanics and physics Nowadays the theory of simple trigonometric series has been developed fully enough we will only mention the monographs by Zygmund 15 16 and Bari 2 The achievements in the theory of multiple trigonometric series look rather modest as compared to those in the one dimensional case though multiple trigonometric series seem to be a natural interesting and promising object of investigation We should say however that the past few decades have seen a more intensive development of the theory in this field To form an idea about the theory of multiple trigonometric series the reader can refer to the surveys by Shapiro 1 Zhizhiashvili 16 46 Golubov 1 D yachenko 3 As to monographs on this topic only that ofYanushauskas 1 is known to me This book covers several aspects of the theory of multiple trigonometric Fourier series the existence and properties of the conjugates and Hilbert transforms of integrable functions convergence pointwise and in the LP norm p 0 of Fourier series and their conjugates as well as their summability by the Cesaro C a a 1 and Abel Poisson methods approximating properties of Cesaro means of Fourier series and their conjugates   **Superanalysis** Andrei Y. Khrennikov,2012-12-06 defined as elements of Grassmann algebra an algebra with anticom muting generators The derivatives of these elements with respect to anticommuting generators were defined according to algebraic laws and nothing like Newton s analysis arose when Martin s approach was used Later during the next twenty years the algebraic apparatus de veloped by Martin was used in all mathematical works We must point out here the considerable contribution made by F A Berezin G 1 Kac D A Leites B Kostant In their works they constructed a new division of mathematics which can naturally be called an algebraic superanalysis Following the example of physicists researchers called the investigations carried out with the use of commuting and anticom muting coordinates supermathematics all mathematical objects that appeared in supermathematics were called superobjects although of course there is nothing super in supermathematics However despite the great achievements in algebraic superanaly sis this formalism could not be regarded as a generalization

to the case of commuting and anticommuting variables from the ordinary Newton analysis What is more Schwinger s formalism was still used in practically all physical works on an intuitive level and physicists regarded functions of anticommuting variables as real functions maps of sets and not as elements of Grassmann algebras In 1974 Salam and Strathdee proposed a very apt name for a set of super points They called this set a superspace **Focal Boundary Value Problems for Differential and Difference Equations** R.P. Agarwal,2013-03-09 The last fifty years have witnessed several monographs and hundreds of research articles on the theory constructive methods and wide spectrum of applications of boundary value problems for ordinary differential equations In this vast field of research the conjugate Hermite and the right focal point Abei types of problems have received the maximum attention This is largely due to the fact that these types of problems are basic in the sense that the methods employed in their study are easily extendable to other types of prob lems Moreover the conjugate and the right focal point types of boundary value problems occur frequently in real world problems In the monograph Boundary Value Problems for Higher Order Differential Equations published in 1986 we addressed the theory of conjugate boundary value problems At that time the results on right focal point problems were scarce however in the last ten years extensive research has been done In Chapter 1 of the mono graph we offer up to date information of this newly developed theory of right focal point boundary value problems Until twenty years ago Difference Equations were considered as the dis cretizations of the differential equations Further it was tacitly taken for granted that the theories of difference and differential equations are parallel However striking diversities and wide applications reported in the last two decades have made difference equations one of the major areas of research **The Gibbs Phenomenon in Fourier Analysis, Splines and Wavelet Approximations** A.J. Jerri,2013-03-09 This book represents the first attempt at a unified picture for the pres ence of the Gibbs or Gibbs Wilbraham phenomenon in applications its analysis and the different methods of filtering it out The analysis and filtering cover the familiar Gibbs phenomenon in Fourier series and integral representations of functions with jump discontinuities In ad dition it will include other representations such as general orthogonal series expansions general integral transforms splines approximation and continuous as well as discrete wavelet approximations The mate rial in this book is presented in a manner accessible to upperclassmen and graduate students in science and engineering as well as researchers who may face the Gibbs phenomenon in the varied applications that in volve the Fourier and the other approximations of functions with jump discontinuities Those with more advanced backgrounds in analysis will find basic material results and motivations from which they can begin to develop deeper and more general results We must emphasize that the aim of this book the first on the sUbject to satisfy such a diverse audience is quite difficult In particular our detailed derivations and their illustrations for an introductory book may very well sound repeti tive to the experts in the field who are expecting a research monograph To answer the concern of the researchers we can only hope that this book will prove helpful as a basic reference for their research papers **Elimination Methods in**

Polynomial Computer Algebra V. Bykov,A. Kytmanov,M. Lazman,Mikael Passare,2012-12-06 The subject of this book is connected with a new direction in mathematics which has been actively developed over the last few years namely the field of polynomial computer algebra which lies at the intersection point of algebra mathematical analysis and programming There were several incentives to write the book First of all there has lately been a considerable interest in applied nonlinear problems characterized by multiple sta tionary states Practical needs have then in their turn led to the appearance of new theoretical results in the analysis of systems of nonlinear algebraic equations And finally the introduction of various computer packages for analytic manipulations has made it possible to use complicated elimination theoretical algorithms in prac tical research The structure of the book is accordingly represented by three main parts Mathematical results driven to constructive algorithms computer algebra realizations of these algorithms and applications Nonlinear systems of algebraic equations arise in diverse fields of science In particular for processes described by systems of differential equations with a poly nomial right hand side one is faced with the problem of determining the number and location of the stationary states in certain sets   Inverse Stefan Problems N.L. Gol'dman,2012-12-06 In this monograph the theory and methods of solving inverse Stefan problems for quasilinear parabolic equations in regions with free boundaries are developed The study of this new class of ill posed problems is motivated by the needs of the mod eling and control of nonlinear processes with phase transitions in thermophysics and mechanics of continuous media Inverse Stefan problems are important for the perfection of technologies both in high temperature processes e g metallurgy the aircraft industry astronautics and power engineering and in hydrology exploitation of oil gas fields etc The proposed book will complete a gap in these subjects in the preceding re searches of ill posed problems It contains the new theoretical and applied studies of a wide class of inverse Stefan problems The statements of such problems on the determination of boundary functions and coefficients of the equation are considered for different types of additional information about their solution The variational method of obtaining stable approximate solutions is proposed and established It is implemented by an efficient computational scheme of descriptive regularization This algorithm utilizes a priori knowledge of the qualitative structure of the sought solution and ensures a substantial saving in computational costs It is tested on model and applied problems in nonlinear thermophysics In particular the results of calculations for important applications in continuous casting of ingots and in the melting of a plate with the help of laser technology are presented   *Handbook of Multivalued Analysis* Shouchuan Hu,Nikolaos S. Papageorgiou,2013-11-21 In volume I we developed the tools of Multivalued Analysis In this volume we examine the applications After all the initial impetus for the development of the theory of set valued functions came from its applications in areas such as control theory and mathematical economics In fact the needs of control theory in particular the study of systems with a priori feedback led to the systematic investigation of differential equations with a multi valued vector field differential inclusions For this reason we start this volume with three chapters devoted to set valued differential equations However in contrast to the existing

books on the subject i e J P Aubin A Cellina Differential Inclusions Springer Verlag 1983 and Deimling Multivalued Differential Equations W De Gruyter 1992 here we focus on Evolution Inclusions which are evolution equations with multi valued terms Evolution equations were raised to prominence with the development of the linear semigroup theory by Hille and Yosida initially with subsequent im portant contributions by Kato Phillips and Lions This theory allowed a successful unified treatment of some apparently different classes of nonstationary linear par tial differential equations and linear functional equations The needs of dealing with applied problems and the natural tendency to extend the linear theory to the nonlinear case led to the development of the nonlinear semigroup theory which became a very effective tool in the analysis of broad classes of nonlinear evolution equations   Nonlinear Oscillations and Waves in Dynamical Systems P.S Landa,2013-06-29 A rich variety of books devoted to dynamical chaos solitons self organization has appeared in recent years These problems were all considered independently of one another Therefore many of readers of these books do not suspect that the problems discussed are divisions of a great generalizing science the theory of oscillations and waves This science is not some branch of physics or mechanics it is a science in its own right It is in some sense a meta science In this respect the theory of oscillations and waves is closest to mathematics In this book we call the reader s attention to the present day theory of non linear oscillations and waves Oscillatory and wave processes in the systems of diversified physical natures both periodic and chaotic are considered from a unified poin t of view The relation between the theory of oscillations and waves non linear dynamics and synergetics is discussed One of the purposes of this book is to convince reader of the necessity of a thorough study popular branches of of the theory of oscillat ions and waves and to show that such science as non linear dynamics synergetics soliton theory and so on are in fact constituent parts of this theory The primary audiences for this book are researchers having to do with oscillatory and wave processes and both students and post graduate students interested in a deep study of the general laws and applications of the theory of oscillations and waves   **Haar Series and Linear Operators** I. Novikov,E. Semenov,2013-11-11 In 1909 Alfred Haar introduced into analysis a remarkable system which bears his name The Haar system is a complete orthonormal system on 0 1 and the Fourier Haar series for arbitrary continuous function converges uniformly to this function This volume is devoted to the investigation of the Haar system from the operator theory point of view The main subjects treated are classical results on unconditional convergence of the Haar series in modern presentation Fourier Haar coefficients reproducibility martingales monotone bases in rearrangement invariant spaces rearrangements and multipliers with respect to the Haar system subspaces generated by subsequences of the Haar system the criterion of equivalence of the Haar and Franklin systems Audience This book will be of interest to graduate students and researchers whose work involves functional analysis and operator theory   **Basic Topological Structures of Ordinary Differential Equations** V.V. Filippov,2013-03-09 The aim of this book is a detailed study of topological effects related to continuity of the dependence of solutions on initial values and parameters This allows us to develop cheaply a

theory which deals easily with equations having singularities and with equations with multivalued right hand sides differential inclusions An explicit description of corresponding topological structures expands the theory in the case of equations with continuous right hand sides also In reality this is a new science where Ordinary Differential Equations General Topology Integration theory and Functional Analysis meet In what concerns equations with discontinuities and differential inclu sions we do not restrict the consideration to the Cauchy problem but we show how to develop an advanced theory whose volume is commensurable with the volume of the existing theory of Ordinary Differential Equations The level of the account rises in the book step by step from second year student to working scientist *G-Convergence and Homogenization of Nonlinear Partial Differential Operators* A.A. Pankov,2013-04-17 Various applications of the homogenization theory of partial differential equations resulted in the further development of this branch of mathematics attracting an increasing interest of both mathematicians and experts in other fields In general the theory deals with the following Let Ak be a sequence of differential operators linear or nonlinepr We want to examine the asymptotic behaviour of solutions uk to the equation Auk f as k provided coefficients of Ak contain rapid oscillations This is the case e g when the coefficients are of the form a e x where the function a y is periodic and ek 0 ask Of course of oscillation like almost periodic or random homogeneous are of many other kinds interest as well It seems a good idea to find a differential operator A such that uk u where u is a solution of the limit equation Au f Such a limit operator is usually called the homogenized operator for the sequence Ak Sometimes the term averaged is used instead of homogenized Let us look more closely what kind of convergence one can expect for uk Usually we have some a priori bound for the solutions However due to the rapid oscillations of the coefficients such a bound may be uniform with respect to k in the corresponding energy norm only Therefore we may have convergence of solutions only in the weak topology of the energy space <u>Boolean Valued Analysis</u> A. G. Kusraev,Samson Semenovich Kutateladze,1999 Boolean valued analysis is a technique for studying properties of an arbitrary mathematical object by comparing its representations in two different set theoretic models whose construction utilises principally distinct Boolean algebras The use of two models for studying a single object is a characteristic of the so called non standard methods of analysis Application of Boolean valued models to problems of analysis rests ultimately on the procedures of ascending and descending the two natural functors acting between a new Boolean valued universe and the von Neumann universe

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