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

Brendan G. Carr

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 I␣A␣kovlevich Vilenkin,Anatoliĭ Ul'i␣a␣novich 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   <u>Representation of Lie Groups and Special Functions</u> Naum I␣A␣kovlevich 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 **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 **Handbook of Differential Equations: Ordinary Differential Equations** Flaviano Battelli,Michal Feckan,2008-08-19 This handbook is the fourth volume in a series of volumes devoted to self contained and up to date surveys in the theory of ordinary differential equations with an additional effort to achieve readability for mathematicians and scientists from other related fields so that the chapters have been made accessible to a wider audience Covers a variety of problems in ordinary differential equations Pure mathematical and real world applications Written for mathematicians and scientists of many related fields **Qcd: Perturbative Or Nonperturbative? - Proceedings Of The Xvii Autumn School** Lidia S Ferreira,Paulo Nogueira,Joaquim I Silva-marcos,2000-11-24 This volume presents a selection of current developments in quantum chromodynamics with some emphasis on the borderline between the perturbative and the nonperturbative regime The topics include effective QCD sum rules vacuum structure confinement bound states quark masses lattice QCD deconfinement deep inelastic scattering and structure functions strong coupling constant radiative corrections Nonlinear Integral Equations in Abstract Spaces Dajun Guo,V. Lakshmikantham,Xinzhi Liu,2013-11-22 Many problems arising in the physical sciences engineering biology and ap plied mathematics lead to mathematical models described by nonlinear integral equations in abstract spaces The theory of nonlinear integral equations in ab stract spaces is a fast growing field with important applications to a number of areas of analysis as well as other branches of science This book is devoted to a comprehensive treatment of nonlinear integral equations in abstract spaces It is the first book that is dedicated to a systematic development of this subject and it includes the developments during recent years Chapter 1 introduces some basic results in analysis which will be used in later chapters Chapter 2 which is a main portion of this book deals with nonlin ear integral equations in Banach spaces including equations of Fredholm type of Volterra type and equations of Hammerstein type Some applica equations tions to nonlinear differential equations in Banach spaces are given

We also discuss an integral equation modelling infectious disease as a typical applica tion In Chapter 3 we investigate the first order and second order nonlinear integro differential equations in Banach spaces including equations of Volterra type and equations of mixed type Chapter 4 is devoted to nonlinear impulsive integral equations in Banach spaces and their applications to nonlinear impul sive differential equations in Banach spaces **Harmonic Analysis in Hypercomplex Systems** Yu.M. Berezansky,A.A. Kalyuzhnyi,2013-06-29 First works related to the topics covered in this book belong to J Delsarte and B M Le vitan and appeared since 1938 In these works the families of operators that generalize usual translation operators were investigated and the corresponding harmonic analysis was constructed Later starting from 1950 it was noticed that in such constructions an important role is played by the fact that the kernels of the corresponding convolutions of functions are nonnegative and by the properties of the normed algebras generated by these convolutions That was the way the notion of hypercomplex system with continu ous basis appeared A hypercomplex system is a normed algebra of functions on a locally compact space Q the basis of this hypercomplex system Later similar objects hypergroups were introduced which have complex valued measures on Q as elements and convolution defined to be essentially the convolution of functionals and dual to the original convolution if measures are regarded as functionals on the space of continuous functions on Q However until 1991 the time when this book was written in Russian there were no monographs containing fundamentals of the theory with an exception of a short section in the book by Yu M Berezansky and Yu G Kondratiev BeKo The authors wanted to give an introduction to the theory and cover the most important subsequent results and examples 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 *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

Applications of Point Set Theory in Real Analysis A.B. Kharazishvili,2013-03-09 This book is devoted to some results from the classical Point Set Theory and their applications to certain problems in mathematical analysis of the real line Notice that various topics from this theory are presented in several books and surveys From among the most important works devoted to Point Set Theory let us first of all mention the excellent book by Oxtoby 83 in which a deep analogy between measure and category is discussed in detail Further an interesting general approach to problems concerning measure and category is developed in the well known monograph by Morgan 79 where a fundamental concept of a category base is introduced and investigated We also wish to mention that the monograph by Cichon W glorz and the author 19 has recently been published In that book certain classes of subsets of the real line are studied and various cardinal valued functions characteristics closely connected with those classes are investigated Obviously the IT ideal of all Lebesgue measure zero subsets of the real line and the IT ideal of all first category subsets of the same line are extensively studied in 19 and several relatively new results concerning this topic are presented Finally it is reasonable to notice here that some special sets of points the so called singular spaces are considered in the classi   Dynamic Impulse Systems S.T. Zavalishchin,A.N. Sesekin,2013-03-14 A number of optimization problems of the mechanics of space flight and the motion of walking robots and manipulators and of quantum physics eco momics and biology have an irregular structure classical variational proce dures do not formally make it possible to find optimal controls that as we explain have an impulse character This and other well known facts lead to the necessity for constructing dynamical models using the concept of a gener alized function Schwartz distribution The problem ofthe systematization of such models is very important In particular the problem of the construction of the general form of linear and nonlinear operator equations in distributions is timely Another problem is related to the proper determination of solutions of equations that have nonlinear operations over generalized functions in their description It is well known that the value of a distribution at a point has no meaning As a result the problem to construct the concept of

stability for generalized processes arises Finally optimization problems for dynamic systems in distributions need finding optimality conditions This book contains results that we have obtained in the above mentioned directions The aim of the book is to provide for electrical and mechanical engineers or mathematicians working in applications a general and systematic treat ment of dynamic systems based on up to date mathematical methods and to demonstrate the power of these methods in solving dynamics of systems and applied control problems **Existence Theory for Nonlinear Integral and Integrodifferential Equations** Donal O'Regan,Maria Meehan,2012-12-06 The theory of integral and integrodifferential equations has ad vanced rapidly over the last twenty years Of course the question of existence is an age old problem of major importance This mono graph is a collection of some of the most advanced results to date in this field The book is organized as follows It is divided into twelve chap ters Each chapter surveys a major area of research Specifically some of the areas considered are Fredholm and Volterra integral and integrodifferential equations resonant and nonresonant problems in tegral inclusions stochastic equations and periodic problems We note that the selected topics reflect the particular interests of the authors Donal 0 Regan Maria Meehan CHAPTER 1 INTRODUCTION AND PRELIMINARIES 1 1 Introduction The aim of this book is firstly to provide a comprehensive existence the ory for integral and integrodifferential equations and secondly to present some specialised topics in integral equations which we hope will inspire fur ther research in the area To this end the first part of the book deals with existence principles and results for nonlinear Fredholm and Volterra inte gral and integrodifferential equations on compact and half open intervals while selected topics which reflect the particular interests of the authors such as nonresonance and resonance problems equations in Banach spaces inclusions and stochastic equations are presented in the latter part **Convex and Starlike Mappings in Several Complex Variables** Sheng Gong,2012-12-06 This book deals with the theory of convex and starlike biholomorphic mappings in several complex variables The underlying theme is the extension to several complex variables of geometric aspects of the classical theory of univalent functions This is the first book which systematically studies this topic It gathers together and presents in a unified manner the current state of affairs for convex and starlike biholomorphic mappings in several complex variables The majority of the results presented are due to the author his co workers and his students Audience This volume will be of interest to research mathematicians whose work involves several complex variables and one complex variable Linear Difference Equations with Discrete Transform Methods A.J. Jerri,2013-03-09 This book covers the basic elements of difference equations and the tools of difference and sum calculus necessary for studying and solv ing primarily ordinary linear difference equations Examples from various fields are presented clearly in the first chapter then discussed along with their detailed solutions in Chapters 2 7 The book is in tended mainly as a text for the beginning undergraduate course in difference equations where the operational sum calculus of the di rect use of the discrete Fourier transforms for solving boundary value problems associated with difference equations represents an added new feature compared to other existing books on the

subject at this introductory level This means that in addition to the familiar meth ods of solving difference equations that are covered in Chapter 3 this book emphasizes the use of discrete transforms It is an attempt to introduce the methods and mechanics of discrete transforms for solv ing ordinary difference equations The treatment closely parallels what many students have already learned about using the opera tional integral calculus of Laplace and Fourier transforms to solve differential equations As in the continuous case discrete operational methods may not solve problems that are intractable by other meth ods but they can facilitate the solution of a large class of discrete initial and boundary value problems Such operational methods or what we shall term operational sum calculus may be extended eas ily to solve partial difference equations associated with initial and or boundary value problems **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 **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 *Partial Differential Equations and Boundary Value Problems* Viorel Barbu,2013-06-29 The material of the present book has been used for graduate level courses at the University of Ia i during the past ten years It is a revised version of a book which appeared in Romanian in 1993 with the Publishing House of the Romanian Academy The book focuses on classical boundary value problems for the principal equations of mathematical physics second order elliptic equations the Poisson equations heat equations and wave equations The existence theory of second order elliptic boundary value problems was a great challenge for nineteenth century mathematics and its development was marked by two decisive steps Undoubtedly the first one was the Fredholm proof in 1900 of the existence of solutions to Dirichlet and Neumann problems which represented a triumph of the classical theory of partial differential equations The second step is due to S 1 Sobolev 1937 who introduced the concept of weak solution in partial differential equations and inaugurated the modern theory of boundary value problems The classical theory which is a product ofthe nineteenth century is concerned with smooth continuously differentiable sollutions and its methods rely on classical analysis and in particular on potential theory The modern theory concerns distributional weak solutions and relies on analysis of Sob ole v spaces and functional methods The same distinction is valid for the boundary value problems associated with heat and wave equations Both aspects of the theory are present in this book though it is not exhaustive in any sense   Introduction to Vertex Operator Superalgebras and Their Modules Xiaoping Xu,2013-03-09 This book presents a systematic study on the structures of vertex operator superalgebras and their modules Related theories of self dual codes and lattices are included as well as recent achievements on classifications of certain simple vertex operator superalgebras and their irreducible twisted modules constructions of simple vertex operator superalgebras from graded associative algebras and their anti involutions self dual codes and lattices Audience This book is of interest to researchers and graduate students in mathematics and mathematical physics

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