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**Richard Askey  
and James Wilson**

**Some basic hypergeometric  
orthogonal polynomials that  
generalize Jacobi polynomials**

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# Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials

**Richard Askey, James Arthur Wilson**



## **Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials:**

**Some Basic Hypergeometric Orthogonal Polynomials that Generalize Jacobi Polynomials** Richard Askey, James Arthur Wilson, 1985-12-31      **Some basic hypergeometric orthogonal polynomials that generalize Jacobi**

**polynomials** Richard Askey, James Wilson, 1986      *Some Basic Hypergeometric Orthogonal Polynomial that Generalize*

*Jacobi Polynomials* Richard Askey, James Wilson, 1985      **Algebraic Methods and  $q$ -Special Functions** Jan Felipe Van

Diejen, Luc Vinet, 1999 There has been revived interest in recent years in the study of special functions Many of the latest

advances in the field were inspired by the works of R A Askey and colleagues on basic hypergeometric series and I G

Macdonald on orthogonal polynomials related to root systems Significant progress was made by the use of algebraic

techniques involving quantum groups Hecke algebras and combinatorial methods The CRM organized a workshop for key

researchers in the field to present an overview of current trends This volume consists of the contributions to that workshop

Topics include basic hypergeometric functions algebraic and representation theoretic methods combinatorics of symmetric

functions root systems and the connections with integrable systems      *Series and Products in the Development of*

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Bieberbach's conjecture and Nevanlinna's theory of meromorphic functions      **Series and Products in the Development**

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Bieberbach's conjecture and requires more advanced mathematical knowledge      *Series and Products in the Development*

*of Mathematics* Ranjan Roy, 2021 Sources in the Development of Mathematics Series and Products from the Fifteenth to the Twenty first Century my book of 2011 was intended for an audience of graduate students or beyond However since much of its mathematics lies at the foundations of the undergraduate mathematics curriculum I decided to use portions of my book as the text for an advanced undergraduate course I was very pleased to find that my curious and diligent students of varied levels of mathematical talent could understand a good bit of the material and get insight into mathematics they had already studied as well as topics with which they were unfamiliar Of course the students could profitably study such topics from good textbooks But I observed that when they read original proofs perhaps with gaps or with slightly opaque arguments students gained very valuable insight into the process of mathematical thinking and intuition Moreover the study of the steps often over long periods of time by which earlier mathematicians refined and clarified their arguments revealed to my students the essential points at the crux of those results points that may be more difficult to discern in later streamlined presentations As they worked to understand the material my students witnessed the difficulty and beauty of original mathematical work and this was a source of great enjoyment to many of them I have now thrice taught this course with extremely positive student response

**Computational Mathematics, Algorithms, and Data Processing** Daniele Mortari, Yalchin Efendiev, Boris Hanin, 2020-12-07 Computational Mathematics Algorithms and Data Processing of MDPI consists of articles on new mathematical tools and numerical methods for computational problems Topics covered include numerical stability interpolation approximation complexity numerical linear algebra differential equations ordinary partial optimization integral equations systems of nonlinear equations compression or distillation and active learning

*The Bispectral Problem* John P. Harnad, Alex Kasman, 1998 Comprises 16 papers from the March 1997 meeting on the subject in Montreal The focus is on the search for solutions to eigenvalue problems that satisfy additional equations in the spectral parameter such as pairs of eigenvalue equations Among the topics automorphisms of the weyl algebra and bispectral operators Huygens Principle beyond the classical orthogonal polynomials dual isomonodromic deformations Darboux transformations explicit formulas for the Airy and Bessel bispectral involutions in terms of Calogero Moser pairs Baker Akhiezer functions and the bispectral problem in many dimensions and the geometry of spinors and the multicomponent BKP and DKP hierarchies Annotation copyrighted by Book News Inc Portland OR

**Representation of Lie Groups and Special Functions** N. Ja. Vilenkin, A. U. Klimyk, 2013-03-14 This is the second 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 special functions and orthogonal polynomials Legendre Gegenbauer Jacobi Laguerre Bessel and others which are related to the class 1 representations of various groups The tree method for the construction of bases for representation spaces is given Continuous bases in the spaces of functions on hyperboloids and cones and corresponding Poisson kernels are found Also considered are the properties of the  $q$  analogs of classical orthogonal polynomials related to representations of

the Chevalley groups and of special functions connected with fields of  $p$  adic numbers Much of the material included appears in book form for the first time and many of the topics are presented in a novel way This volume will be of great interest to specialists in group representations special functions differential equations with partial derivatives and harmonic analysis Subscribers to the complete set of three volumes will be entitled to a discount of 15% Theory and Applications of Special Functions Mourad E. H. Ismail, Erik Koelink, 2006-03-30 This volume Theory and Applications of Special Functions is dedicated to Mizan Rahman in honoring him for the many important contributions to the theory of special functions that he has made over the years and still continues to make Some of the papers were presented at a special session of the American Mathematical Society Annual Meeting in Baltimore Maryland in January 2003 organized by Mourad Ismail Mizan Rahman's contributions are not only contained in his own papers but also indirectly in other papers for which he supplied useful and often essential information We refer to the paper on his mathematics in this volume for more information This paper contains some personal recollections and tries to describe Mizan Rahman's literary writings in his mother tongue Bengali An even more personal paper on Mizan Rahman is the letter by his sons whom we thank for allowing us to reproduce it in this book The theory of special functions is very much an application driven field of mathematics This is a very old field dating back to the 18th century when physicists and mathematicians were looking for solutions of the fundamental differential equations of mathematical physics Since then the field has grown enormously and this book reflects only part of the known applications

**Studies in Pure Mathematics** ERDÖS, 2013-12-01 This volume written by his friends collaborators and students is offered to the memory of Paul Turán Most of the papers they contributed discuss subjects related to his own fields of research The wide range of topics reflects the versatility of his mathematical activity His work has inspired many mathematicians in analytic number theory theory of functions of a complex variable interpolation and approximation theory numerical algebra differential equations statistical group theory and theory of graphs Beyond the influence of his deep and important results he had the exceptional ability to communicate to others his enthusiasm for mathematics One of the strengths of Turán was to ask unusual questions that became starting points of many further results sometimes opening up new fields of research We hope that this volume will illustrate this aspect of his work adequately Born in Budapest on August 28 1910 Paul Turán obtained his Ph D under L Fejér in 1935 His love for mathematics enabled him to work even under inhuman circumstances during the darkest years of the Second World War One of his major achievements his power sum method originated in this period After the war he was visiting professor in Denmark and in Princeton In 1949 he became professor at the Eötvös Loránd University of Budapest a member of the Hungarian Academy of Sciences and a leading figure of the Hungarian mathematical community **Computers in Mathematics** V. Chudnovsky, Richard D. Jenks, 1990-05-25 Talks from the International Conference on Computers and Mathematics held July 29 Aug 1 1986 Stanford U Some are focused on the past and future roles of computers as a research tool in such areas as number theory analysis special

functions combinatorics algebraic geometry topology physics      **Particles and Fields** Gordon W. Semenoff, Luc Vinet, 2012-12-06 The focus of this volume is on quantum field theory integrable theories statistical systems and applications to condensed matter physics It covers some of the most significant recent advances in theoretical physics at a level accessible to advanced graduate students The contributions each by a noted researcher discuss such topics as some remarkable features of integrable Toda field theories E Corrigan properties of a gas of interacting Fermions in a lattice of magnetic ions J Feldman al how quantum groups arise in three dimensional topological quantum field theory D Freed a method for computing correlation functions of solvable lattice models T Miwa matrix models discussed from the point of view of integrable systems A Morozov localization of path integrals in certain equivariant cohomologies A Niemi Calogero Moser systems S Ruijsenaars planar gauge theories with broken symmetries M de Wild Propitius F A Bais quantum Hall fluids A Capelli al spectral theory of quantum vortex operators P I Ettinghoff      **Symmetries and Integrability of Difference Equations** Decio Levi, Luc Vinet, Pavel Winternitz,      Encyclopedia of Special Functions: The Askey-Bateman Project: Volume 2, Multivariable Special Functions Tom H. Koornwinder, Jasper V. Stokman, 2020-10-15 This is the second of three volumes that form the Encyclopedia of Special Functions an extensive update of the Bateman Manuscript Project Volume 2 covers multivariable special functions When the Bateman project appeared study of these was in an early stage but revolutionary developments began to be made in the 1980s and have continued ever since World renowned experts survey these over the course of 12 chapters each containing an extensive bibliography The reader encounters different perspectives on a wide range of topics from Dunkl theory to Macdonald theory to the various deep generalizations of classical hypergeometric functions to the several variables case including the elliptic level Particular attention is paid to the close relation of the subject with Lie theory geometry mathematical physics and combinatorics      **q-Series from a Contemporary Perspective** Mourad Ismail, Dennis W. Stanton, 2000 This volume presents the proceedings of the Summer Research Conference on q series and related topics held at Mount Holyoke College Hadley Massachusetts All of the papers were contributed by participants and offer original research Articles in the book reflect the diversity of areas that overlap with q series as well as the usefulness of q series across the mathematical sciences The conference was held in honour of Richard Askey on the occasion of his 65th birthday      **Lectures on Orthogonal Polynomials and Special Functions** Howard S. Cohl, Mourad E. H. Ismail, 2020-10-15 Contains graduate level introductions by international experts to five areas of research in orthogonal polynomials and special functions      **Mathematics and Social Utopias in France** Simon Altmann, Eduardo L. Ortiz, 2013-03-30 Social reformer banker and mathematician Olinde Rodrigues is a fascinating figure of nineteenth century Paris Information about him is obscure scattered in publications on history mathematics and the social sciences and often inaccurate Rodrigues left no papers or archives Here for the first time is an authoritative account of his family history education and important mathematical works Written by a team of prominent mathematicians and historians

the book comprises the interests and associations that make Rodrigues such a remarkable character in the history of mathematics. This is a superb panorama of nineteenth century France portrayed through the life and work of Olinde Rodrigues. The beginning chapters attempt to recreate the scientific and social background of nineteenth century Paris and Rodrigues's place in it. The following chapters discuss his contributions to a variety of mathematical fields e.g. orthogonal polynomials, combinatorics and rotations. The final chapters discuss contemporary reactions to his mathematical work. Sufficient background is given to make it accessible to readers familiar with basic college mathematics. The book is suitable for specialists in the history of mathematics and/or science graduate students and mathematicians. Co-published with the London Mathematical Society beginning with Volume 4.

**Jack, Hall-Littlewood and Macdonald Polynomials** Vadim B. Kuznetsov, Siddhartha Sahi, 2006. The subject of symmetric functions began with the work of Jacobi, Schur, Weyl, Young and others on the Schur polynomials. In the 1950s and 60s far-reaching generalizations of Schur polynomials were obtained by Hall and Littlewood independently and in a different direction by Jack. In the 1980s Macdonald unified these developments by introducing a family of polynomials associated with arbitrary root systems. The last twenty years have witnessed considerable progress in this area, revealing new and profound connections with representation theory, algebraic geometry, combinatorics, special functions, classical analysis and mathematical physics. All these fields and more are represented in this volume, which contains the proceedings of a conference on Jack, Hall-Littlewood and Macdonald polynomials held at ICMS, Edinburgh during September 23-26, 2003, of historical material including brief biographies of Hall, Littlewood, Jack and Macdonald, the original papers of Littlewood and Jack, notes on Hall's work by Macdonald and a recently discovered unpublished manuscript by Jack annotated by Macdonald. The book will be invaluable to students and researchers who wish to learn about this beautiful and exciting subject.

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