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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

**Mass Per Pettersson, Gianluca  
Iaccarino, Jan Nordström**



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

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Harmonic Analysis of Probability Measures on Hypergroups Walter R. Bloom, Herbert Heyer, 2011-04-20 The series is

devoted to the publication of monographs and high level textbooks in mathematics mathematical methods and their applications Apart from covering important areas of current interest a major aim is to make topics of an interdisciplinary nature accessible to the non specialist The works in this series are addressed to advanced students and researchers in mathematics and theoretical physics In addition it can serve as a guide for lectures and seminars on a graduate level The series de Gruyter Studies in Mathematics was founded ca 30 years ago by the late Professor Heinz Bauer and Professor Peter Gabriel with the aim to establish a series of monographs and textbooks of high standard written by scholars with an international reputation presenting current fields of research in pure and applied mathematics While the editorial board of the Studies has changed with the years the aspirations of the Studies are unchanged In times of rapid growth of mathematical knowledge carefully written monographs and textbooks written by experts are needed more than ever not least to pave the way for the next generation of mathematicians In this sense the editorial board and the publisher of the Studies are devoted to continue the Studies as a service to the mathematical community Please submit any book proposals to Niels Jacob

**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

**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 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

*Special Functions,  $q$ -Series and Related Topics* Mourad Ismail, David R. Masson, Mizan Rahman, 1997 This book contains contributions from the proceedings at The Fields Institute workshop on Special Functions  $q$  Series and Related Topics that was held in June 1995 The articles cover areas from quantum groups and their representations multivariate special functions  $q$  series and symbolic algebra techniques as well as the traditional areas of single variable special functions The book contains both pure and applied topics and reflects recent trends of research in the various areas of special

functions Canadian Journal of Mathematics, 1988-10 **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 **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 *Recent Trends in Combinatorics* Andrew Beveridge, Jerrold R. Griggs, Leslie Hogben, Gregg Musiker, Prasad Tetali, 2016-04-12 This volume presents some of the research topics discussed at the 2014 2015 Annual Thematic Program Discrete Structures Analysis and Applications at the Institute for Mathematics and its Applications during Fall 2014 when combinatorics was the focus

Leading experts have written surveys of research problems making state of the art results more conveniently and widely available The three part structure of the volume reflects the three workshops held during Fall 2014 In the first part topics on extremal and probabilistic combinatorics are presented part two focuses on additive and analytic combinatorics and part three presents topics in geometric and enumerative combinatorics This book will be of use to those who research

combinatorics directly or apply combinatorial methods to other fields      **Polynomial Chaos Methods for Hyperbolic**

**Partial Differential Equations** Mass Per Pettersson, Gianluca Iaccarino, Jan Nordström, 2015-03-10 This monograph presents computational techniques and numerical analysis to study conservation laws under uncertainty using the stochastic Galerkin formulation With the continual growth of computer power these methods are becoming increasingly popular as an alternative to more classical sampling based techniques The text takes advantage of stochastic Galerkin projections applied to the original conservation laws to produce a large system of modified partial differential equations the solutions to which directly provide a full statistical characterization of the effect of uncertainties Polynomial Chaos Methods of Hyperbolic Partial Differential Equations focuses on the analysis of stochastic Galerkin systems obtained for linear and non linear convection diffusion equations and for a systems of conservation laws a detailed well posedness and accuracy analysis is presented to enable the design of robust and stable numerical methods The exposition is restricted to one spatial dimension and one uncertain parameter as its extension is conceptually straightforward The numerical methods designed guarantee that the solutions to the uncertainty quantification systems will converge as the mesh size goes to zero Examples from computational fluid dynamics are presented together with numerical methods suitable for the problem at hand stable high order finite difference methods based on summation by parts operators for smooth problems and robust shock capturing methods for highly nonlinear problems Academics and graduate students interested in computational fluid dynamics and uncertainty quantification will find this book of interest Readers are expected to be familiar with the fundamentals of numerical analysis Some background in stochastic methods is useful but not necessary      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     Symmetries and Integrability of Difference Equations Decio Levi, Luc Vinet, Pavel Winternitz,     **Probability Measures on Groups** X H. Heyer, 2013-11-11 The present volume contains the transactions of the 10th Oberwolfach Conference on Probability Measures on Groups The series of these meetings inaugurated in 1970 by L Schmetterer and the editor is devoted to an intensive exchange of ideas on a subject which developed from the relations between various topics of mathematics measure theory probability theory group theory harmonic analysis special functions partial differential operators quantum stochastics just to name the most significant ones Over the years the fruitful interplay broadened in various directions new group related structures such as convolution algebras generalized translation spaces hypercomplex systems and hypergroups arose from generalizations as well as from applications and a gradual refinement of the combinatorial Banach algebraic and Fourier analytic methods led to more precise insights into the theory In a period of highest specialization in scientific thought the separated minds should be reunited by actively emphasizing similarities analogies and coincidences between ideas in their fields of research Although there is no real separation between one field and another David Hilbert denied even the existence of any difference between pure and applied mathematics bridges between probability theory on one side and algebra topology and geometry on the other side remain absolutely necessary They provide a favorable ground for the communication between apparently disjoint research groups and motivate the framework of what is nowadays called Structural probability theory     Integrable Structures of Exactly Solvable Two-Dimensional Models of Quantum Field Theory S. Pakuliak, G. von Gehlen, 2012-12-06 Integrable quantum field theories and integrable lattice models have been studied for several decades but during the last few years new ideas have emerged that have considerably changed the topic The first group of papers published here is concerned with integrable structures of quantum lattice models related to quantum group symmetries The second group deals with the description of integrable structures in two dimensional quantum field theories especially boundary problems thermodynamic Bethe ansatz and form factor problems Finally a major group of papers is concerned with the purely mathematical framework that underlies the physically motivated research on quantum integrable models including elliptic deformations of groups representation theory of non compact quantum groups and quantization of moduli spaces     Canadian Journal of Mathematics ,1986-04     **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% **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 1950 s and 60 s far reaching generalizations of Schur polynomials were obtained by Hall and Littlewood independently and in a different direction by Jack In the 1980 s 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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## **Table of Contents Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials**

1. Understanding the eBook **Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials**
  - The Rise of Digital Reading **Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials**
  - Advantages of eBooks Over Traditional Books
2. Identifying **Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials**
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an **Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials**
  - User-Friendly Interface
4. Exploring eBook Recommendations from **Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials**
  - Personalized Recommendations



- Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials User Reviews and Ratings
- Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials and Bestseller Lists
- 5. Accessing Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials Free and Paid eBooks
  - Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials Public Domain eBooks
  - Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials eBook Subscription Services
  - Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials Budget-Friendly Options
- 6. Navigating Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials eBook Formats
  - ePub, PDF, MOBI, and More
  - Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials Compatibility with Devices
  - Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials
  - Highlighting and Note-Taking Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials
  - Interactive Elements Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials
- 8. Staying Engaged with Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials
- 9. Balancing eBooks and Physical Books Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Some Basic Hypergeometric Orthogonal Polynomials That Generalize

### Jacobi Polynomials

10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials
  - Setting Reading Goals Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials
  - Fact-Checking eBook Content of Some Basic Hypergeometric Orthogonal Polynomials That Generalize Jacobi Polynomials
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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