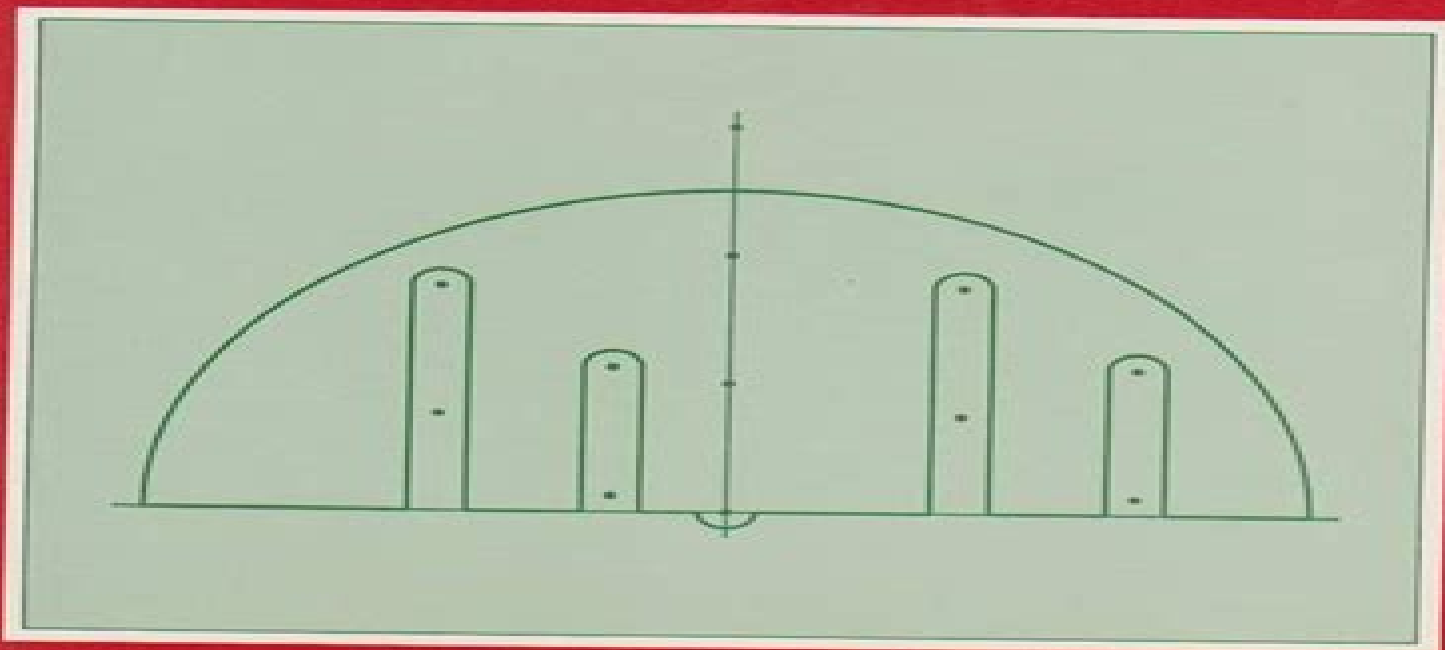


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10.

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# Basic Hypergeometric Series And Applications

**Pavel Etingof, Mikhail  
Khovanov, Alistair Savage**



## Basic Hypergeometric Series And Applications:

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**Basic Hypergeometric Series** George Gasper, Mizan Rahman, 2011-02-25 Significant revision of classic reference in special functions

**$q$ -Series with Applications to Combinatorics, Number Theory, and Physics** Bruce C. Berndt, Ken Ono, 2001 The subject of  $q$  series can be said to begin with Euler and his pentagonal number theorem In fact  $q$  series are sometimes called Eulerian series Contributions were made by Gauss Jacobi and Cauchy but the first attempt at a systematic development especially from the point of view of studying series with the products in the summands was made by E Heine in 1847 In the latter part of the nineteenth and in the early part of the twentieth centuries two English mathematicians L J Rogers and F H Jackson made fundamental contributions In 1940 G H Hardy described what we now call Ramanujan's famous  $1/\psi(1)$  summation theorem as a remarkable formula with many parameters This is now one of the fundamental theorems of the subject Despite humble beginnings the subject of  $q$  series has flourished in the past three decades particularly with its applications to combinatorics number theory and physics During the year 2000 the University of Illinois embraced The Millennial Year in Number Theory One of the events that year was the conference  $q$  Series with Applications to Combinatorics Number Theory and Physics This event gathered mathematicians from the world over to lecture and discuss their research This volume presents nineteen of the papers presented at the conference The excellent lectures that are included chart pathways into the future and survey the numerous applications of  $q$  series to combinatorics number theory and physics [Applications and  \$q\$ -Extensions of Hypergeometric Functions](#)

Howard S. Cohl, Roberto S. Costas-Santos, Robert S. Maier, 2025-06-11 This is the second volume of a two volume collection of recent research results related to hypergeometric functions The first volume Contemporary Mathematics Volume 818 is titled Classical Hypergeometric Functions and Generalizations This volume contains the proceedings of a minisymposium and two AMS special sessions in three conferences Minisymposium on All Things Hypergeometric  $q$  series and Generalizations at the 16th International Symposium on Orthogonal Polynomials Special Functions and Applications OPSFA 16 June 13 17 2022 Centre de Recherches Mathématiques Montréal Québec Canada AMS Special Session on Hypergeometric Functions and  $q$  series at the 2022 AMS Fall Western Sectional Meeting October 22 23 2022 University of Utah Salt Lake City Utah and the

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Theory and Applications of Special Functions for Scientists and Engineers Xiao-Jun Yang, 2022-01-14 This book provides the knowledge of the newly established supertrigonometric and superhyperbolic functions with the special functions such as Mittag-Leffler, Wiman, Prabhakar, Miller, Ross, Rabotnov, Lorenzo, Hartley, Sonine, Wright, and Kohlrausch-Williams-Watts functions, Gauss hypergeometric series, and Clausen hypergeometric series The special functions can be considered to represent a great many of the real world phenomena in mathematical physics, engineering, and other applied sciences The audience benefits of new and original information and references in the areas of the special functions applied to model the complex problems with the power law behaviors The results are important and interesting for scientists and engineers to represent the complex phenomena arising in applied sciences therefore graduate students and researchers in mathematics, physics, and engineering might find this book appealing

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*Partitions, q-Series, and Modular Forms* Krishnaswami Alladi, Frank Garvan, 2011-11-01 Partitions  $q$  Series and Modular Forms contains a collection of research and survey papers that grew out of a Conference on Partitions  $q$  Series and Modular Forms at the University of Florida Gainesville in March 2008 It will be of interest to researchers and graduate students that would like to learn of recent developments in the theory of  $q$  series and modular and how it relates to number theory, combinatorics, and special functions

*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 mathematician 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

*Perspectives in Representation Theory* Pavel Etingof, Mikhail Khovanov, Alistair Savage, 2014-03-11 This volume contains the proceedings of the conference Perspectives in Representation Theory held from May 12 17 2012 at Yale University in honor of Igor Frenkel s 60th birthday The aim of the conference was to present current progress on the following interrelated topics vertex operator algebras and chiral algebras conformal field theory the geometric Langlands program affine Lie algebras Kac Moody algebras quantum groups crystal bases and canonical bases quantum cohomology and K theory geometric representation theory categorification higher dimensional Kac Moody theory integrable systems quiver varieties representations of real and adic groups and quantum gauge theories The papers in this volume present representation theory connections to numerous other subjects as well as some of the most recent advances in representation theory including those which occurred thanks to the application of techniques in other areas of mathematics and of ideas of quantum field theory and string theory

Physics And Combinatorics, Procs Of Nagoya 1999 Intl Wkshp Anatol N Kirillov, Akihiro Tsuchiya, Hiroshi Umemura, 2001-04-02 This volume contains research and review papers on different branches of mathematics and mathematical physics written by the leading specialists Among the contributed papers are articles on i multiple basic hypergeometric functions with applications to the number theory ii birational representations of affine Weyl groups with applications to discrete integrable systems iii algebraic geometry and Painleve VI and iv combinatorics of Kostka Foulkes polynomials

**Advances in Mathematical Modelling, Applied Analysis and Computation** Jagdev Singh, George A. Anastassiou, Dumitru Baleanu, Devendra Kumar, 2023-04-12 The book is very useful for researchers graduate students and educators associated with or interested in recent advances in different aspects of modelling computational methods and techniques necessary for solving problems arising in the real world problems The book includes carefully peer reviewed research articles presented in the 5th International Conference on Mathematical Modelling Applied Analysis and Computation held at JECRC University Jaipur during 4 6 August 2022 concentrating on current advances in mathematical modelling and computation via tools and techniques from mathematics and allied areas It is focused on papers dealing with necessary theory and methods in a balanced manner and contributes towards solving problems arising in engineering control systems networking system environment science health science physical and biological systems social issues of current interest etc

**Analytic And Combinatorial Number Theory: The Legacy Of Ramanujan - Contributions In Honor Of Bruce C. Berndt** George E Andrews, Michael Filaseta, Ae Ja Yee, 2024-08-19 This volume reflects the contributions stemming from the conference Analytic and Combinatorial Number Theory The Legacy of Ramanujan which took place at the University of Illinois at Urbana

Champaign on June 6 9 2019 The conference included 26 plenary talks 71 contributed talks and 170 participants As was the case for the conference this book is in honor of Bruce C Berndt and in celebration of his mathematics and his 80th birthday Along with a number of papers previously appearing in Special Issues of the International Journal of Number Theory the book collects together a few more papers a biography of Bruce by Atul Dixit and Ae Ja Yee a preface by George Andrews a gallery of photos from the conference a number of speeches from the conference banquet the conference poster a list of Bruce s publications at the time this volume was created and a list of the talks from the conference

**Asymptotic Combinatorics with Application to Mathematical Physics** V.A. Malyshev,A.M. Vershik,2012-12-06 New and striking results obtained in recent years from an intensive study of asymptotic combinatorics have led to a new higher level of understanding of related problems the theory of integrable systems the Riemann Hilbert problem asymptotic representation theory spectra of random matrices combinatorics of Young diagrams and permutations and even some aspects of quantum field theory

**Transmutation Operators and Applications** Vladislav V. Kravchenko,Sergei M. Sitnik,2020-04-11 Transmutation operators in differential equations and spectral theory can be used to reveal the relations between different problems and often make it possible to transform difficult problems into easier ones Accordingly they represent an important mathematical tool in the theory of inverse and scattering problems of ordinary and partial differential equations integral transforms and equations special functions harmonic analysis potential theory and generalized analytic functions This volume explores recent advances in the construction and applications of transmutation operators while also sharing some interesting historical notes on the subject

**Mathematical Sciences and Applications** Sanjay Chaudhary,Sanjeev Kumar,Shyamli Gupta,2024-06-24 The papers appearing in these proceedings are part of talks oral presentations and poster presentations given at the International Conference on Mathematical Sciences and Applications held in the Department of Mathematics Dr

Bhimrao Ambedkar University Agra India from March 24 26 2023 The Conference was held under the auspices of the Mathematics Department which is recognized and founded by the U P State Govt as a Centre of Excellence in Mathematics The aim of the conference was to have a gathering of experts from the different field of Mathematical sciences and its applications in physical and biological sciences

**Advances in Combinatorics** Ilias S. Kotsireas,Eugene V. Zima,2013-08-04 This volume as Andrew M Odlyzko writes in the foreword commemorates and celebrates the life and achievements of an extraordinary person Originally conceived as an 80th birthday tribute to Herbert Wilf the well known combinatorialist the book has evolved beyond the proceeds of the W80 tribute Professor Wilf was an award winning teacher who was supportive of women mathematicians and who had an unusually high proportion of women among his PhD candidates He was Editor in chief of the American Mathematical Monthly and a founder of both the Journal of Algorithms and of the Electronic Journal of Combinatorics But he was first a researcher driven by his desire to know and explain the inner workings of the mathematical world The book collects high quality refereed research contributions by some of Professor Wilf

s colleagues students and collaborators Many of the papers presented here were featured in the Third Waterloo Workshop on Computer Algebra WWCA 2011 W80 held May 26 29 2011 at Wilfrid Laurier University Waterloo Canada Others were included because of their relationship to his important work in combinatorics All are presented as a tribute to Herb Wilf s contributions to mathematics and mathematical life Current Trends in Analysis and Its Applications Vladimir V. Mityushev, Michael V. Ruzhansky, 2015-02-04 This book is a collection of papers from the 9th International ISAAC Congress held in 2013 in Krak w Poland The papers are devoted to recent results in mathematics focused on analysis and a wide range of its applications These include up to date findings of the following topics Differential Equations Complex and Functional Analytic Methods Nonlinear PDE Qualitative Properties of Evolution Models Differential and Difference Equations Toeplitz Operators Wavelet Theory Topological and Geometrical Methods of Analysis Queueing Theory and Performance Evaluation of Computer Networks Clifford and Quaternion Analysis Fixed Point Theory M Frame Constructions Spaces of Differentiable Functions of Several Real Variables Generalized Functions Analytic Methods in Complex Geometry Topological and Geometrical Methods of Analysis Integral Transforms and Reproducing Kernels Didactical Approaches to Mathematical Thinking Their wide applications in biomathematics mechanics queueing models scattering geomechanics etc are presented in a concise but comprehensible way such that further ramifications and future directions can be immediately seen  
Canadian Journal of Mathematics ,1986-02

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