

**A. M. Mathai**  
**R. K. Saxena**

**Generalized Hypergeometric  
Functions with Applications in  
Statistics and Physical Sciences**

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# Generalized Hypergeometric Functions With Applications In Statistics And Physical Sciences

**Ansgar Steland, Ewaryst  
Rafajłowicz, Ostap Okhrin**



## **Generalized Hypergeometric Functions With Applications In Statistics And Physical Sciences:**

Generalized Hypergeometric Functions with Applications in Statistics and Physical Sciences A. M. Mathai, R. K. Saxena, 2014-01-15      **Generalized Hypergeometric Functions with Applications in Statistics and Physical Sciences** A. M. Mathai, R. K. Saxena, 1973      **Generalized Hypergeometric Functions with Applications in Statistics and Physical Sciences** A. M. Mathai, R. K. Saxena, 2006-11-15      **Generalized hypergeometric functions with applications in statistics and physical sciences** A. M. Mathai, R. K. Saxena, 1973      *Special Functions for Applied Scientists* A.M. Mathai, H.J. Haubold, 2008-02-13 Chapter 1 introduces elementary classical special functions Gamma beta psi zeta functions hypergeometric functions and the associated special functions generalizations to Meijer s G and Fox s H functions are examined here Discussion is confined to basic properties and selected applications Introduction to statistical distribution theory is provided Some recent extensions of Dirichlet integrals and Dirichlet densities are discussed A glimpse into multivariable special functions such as Appell s functions and Lauricella functions is part of Chapter 1 Special functions as solutions of differential equations are examined Chapter 2 is devoted to fractional calculus Fractional integrals and fractional derivatives are discussed Their applications to reaction diffusion problems in physics input output analysis and Mittag Leffler stochastic processes are developed Chapter 3 deals with q hyper geometric or basic hypergeometric functions Chapter 4 covers basic hypergeometric functions and Ramanujan s work on elliptic and theta functions Chapter 5 examines the topic of special functions and Lie groups Chapters 6 to 9 are devoted to applications of special functions Applications to stochastic processes geometric infinite divisibility of random variables Mittag Leffler processes alpha Laplace processes density estimation order statistics and astrophysics problems are dealt with in Chapters 6 to 9 Chapter 10 is devoted to wavelet analysis An introduction to wavelet analysis is given Chapter 11 deals with the Jacobians of matrix transformations Various types of matrix transformations and the associated Jacobians are provided Chapter 12 is devoted to the discussion of functions of matrix argument in the real case Functions of matrix argument and the pathway models along with their applications are discussed      **Stochastic Models, Statistics and Their Applications** Ansgar Steland, Ewaryst Rafajłowicz, Ostap Okhrin, 2019-10-15 This volume presents selected and peer reviewed contributions from the 14th Workshop on Stochastic Models Statistics and Their Applications held in Dresden Germany on March 6 8 2019 Addressing the needs of theoretical and applied researchers alike the contributions provide an overview of the latest advances and trends in the areas of mathematical statistics and applied probability and their applications to high dimensional statistics econometrics and time series analysis statistics for stochastic processes statistical machine learning big data and data science random matrix theory quality control change point analysis and detection finance copulas survival analysis and reliability sequential experiments empirical processes and microsimulations As the book demonstrates stochastic models and related statistical procedures and algorithms are essential to more comprehensively understanding and solving present day

problems arising in e.g. the natural sciences, machine learning, data science, engineering, image analysis, genetics, econometrics and finance. *Mathematical Analysis and Applications* Themistocles M. Rassias, Panos M. Pardalos, 2019-12-12 An international community of experts/scientists comprise the research and survey contributions in this volume which covers a broad spectrum of areas in which analysis plays a central role. Contributions discuss theory and problems in real and complex analysis, functional analysis, approximation theory, operator theory, analytic inequalities, the Radon transform, nonlinear analysis and various applications of interdisciplinary research. Some are also devoted to specific applications such as the three-body problem, finite element analysis in fluid mechanics, algorithms for difference of monotone operators, a vibrational approach to a financial problem and more. This volume is useful to graduate students and researchers working in mathematics, physics, engineering and economics. *Mathematical Analysis and Applications II* Hari M. Srivastava, 2020-03-19 This issue is a continuation of the previous successful Special Issue *Mathematical Analysis and Applications*. Investigations involving the theory and applications of mathematical analytical tools and techniques are remarkably widespread in many diverse areas of the mathematical, physical, chemical, engineering and statistical sciences. In this Special Issue we invite and welcome review, expository and original research articles dealing with the recent advances in mathematical analysis and its multidisciplinary applications. *The H-Function* A.M. Mathai, Ram Kishore Saxena, Hans J. Haubold, 2009-10-10 The  $H$  function or popularly known in the literature as Fox  $sH$  function has recently found applications in a large variety of problems connected with reaction-diffusion, reaction-diffusion engineering and communication, fractional differential and integral equations, many areas of theoretical physics, statistical distribution theory etc. One of the standard books and most cited book on the topic is the 1978 book of Mathai and Saxena. Since then the subject has grown a lot, mainly in the fields of applications. Due to popular demand the authors were requested to grade and bring out a revised edition of the 1978 book. It was decided to bring out a new book mostly dealing with recent applications in statistical distributions, pathway models, nonextensive statistical mechanics, astrophysics problems, fractional calculus etc. and to make use of the expertise of Hans J. Haubold in astrophysics area also. It was decided to confine the discussion to  $H$  function of one scalar variable only. Matrix variable cases and many variable cases are not discussed in detail but an insight into these areas is given. When going from one variable to many variables there is nothing called a unique bivariate or multivariate analogue of a given function. Whatever be the criteria used there may be many different functions qualified to be bivariate or multivariate analogues of a given univariate function. Some of the bivariate and multivariate  $H$  functions currently in the literature are also questioned by many authors. **ICIAM 91** Robert E. O'Malley, 1992-01-01 *Proceedings Computer Arithmetic Algebra OOP* *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1975 *Free-Space Optical Communication Systems for Next Generation Networks* Abhijeet Upadhyay, Vivek K. Dwivedi, Ghanshyam Singh, 2024-11-15 This book provides insights in the field of free space optical (FSO) communication which is considered the next frontier for future generation broadband

wireless networks The authors discuss various factors limiting practical implementations of the mixed radio frequency free space optical RF FSO relaying technology to determine the impact of important parameters on the performance of mixed RF FSO relaying systems The book presents the various generalized channel models that can be adopted to model RF and FSO link statistics Further it presents the modeling of amplify and forward AF and decode and forward DF forms of cooperative relaying schemes This book enables readers to understand the various mitigation techniques that can be utilized in mixed RF FSO relaying in order to improve the overall user experience The authors discuss the importance of artificial intelligence and machine learning in the field of wireless optical communication systems Finally the optical wireless channel modeling using both CNN and LSTM model is explored with their potential to enhance the accuracy and reliability of channel estimation

**Finite Form Representations for Meijer G and Fox H Functions** Carlos A. Coelho, Barry C. Arnold, 2019-12-13 This book depicts a wide range of situations in which there exist finite form representations for the Meijer G and the Fox H functions Accordingly it will be of interest to researchers and graduate students who when implementing likelihood ratio tests in multivariate analysis would like to know if there exists an explicit manageable finite form for the distribution of the test statistics In these cases both the exact quantiles and the exact p values of the likelihood ratio tests can be computed quickly and efficiently The test statistics in question range from common ones such as those used to test e g the equality of means or the independence of blocks of variables in real or complex normally distributed random vectors to far more elaborate tests on the structure of covariance matrices and equality of mean vectors The book also provides computational modules in Mathematica MAXIMA and R which allow readers to easily implement plot and compute the distributions of any of these statistics or any other statistics that fit into the general paradigm described here *Advances in Complex Function*

*Theory* W. E. Kirwan, L. Zalcman, 2006-11-14 **Towards Ulam Type Multi Stability Analysis** Safoura Rezaei Aderyani, Reza Saadati, Chenkuan Li, Tofigh Allahviranloo, 2024-04-29 The main target of this book is to present a new concept of Ulam type stability i e multi stability through the classical well known special functions and to obtain the best approximation error estimates by a different concept of perturbation stability including fuzzy approaches for uncertainty considerations This stability allows us to obtain diverse approximations depending on various special functions that are initially chosen and to evaluate maximal stability and minimal error which enable us to obtain a unique optimal solution of functional equations inequalities and fractional equations Stability analysis in the sense of the Ulam and its different kinds has received considerable attention from the researchers However how to effectively generalize the Ulam stability problems and to evaluate optimized controllability and stability are new issues The multi stability not only covers the previous concepts but also considers the optimization of the problem and provides a comprehensive discussion of optimizing the different types of the Ulam stabilities of mathematical models used in the natural sciences and engineering disciplines with fuzzy attitudes Besides this book also deals with nonlinear differential equations with various boundary conditions or initial value problems

based on the matrix Mittag Leffler function fixed point theory as well as Babenko's approach to study uniqueness and existence of solutions In general the benefits for the readers can be concluded as follows 1 Evaluates maximal stability with minimal error to get a unique optimal solution 2 Discusses an optimal method of the alternative to study existence uniqueness and different types of Ulam stabilities under special consideration of the fuzzy approaches 3 Delves into the new study of boundary value problems of fractional integro differential equations with integral boundary conditions and variable coefficients Function Theoretic Methods for Partial Differential Equations V. E. Meister, N. Weck, W. L.

Wendland, 2006-11-15 **Basic Theory** Anatoly Kochubei, Yuri Luchko, 2019-02-19 This multi volume handbook is the most up to date and comprehensive reference work in the field of fractional calculus and its numerous applications This first volume collects authoritative chapters covering the mathematical theory of fractional calculus including fractional order operators integral transforms and equations special functions calculus of variations and probabilistic and other aspects

Special Functions: Fractional Calculus and the Pathway for Entropy Hans J. Haubold, 2018-03-23 This book is a printed edition of the Special Issue Special Functions Fractional Calculus and the Pathway for Entropy Dedicated to Professor Dr A M Mathai on the occasion of his 80th Birthday that was published in Axioms **Integral Representation and the**

**Computation of Combinatorial Sums** G. P. Egorychev, 1984-12-31 This monograph should be of interest to a broad spectrum of readers specialists in discrete and continuous mathematics physicists engineers and others interested in computing sums and applying complex analysis in discrete mathematics It contains investigations on the problem of finding integral representations for and computing finite and infinite sums generating functions these arise in practice in combinatorial analysis the theory of algorithms and programming on a computer probability theory group theory and function theory as well as in physics and other areas of knowledge A general approach is presented for computing sums and other expressions in closed form by reducing them to one dimensional and multiple integrals most often to contour integrals

*Representations of Permutation Groups II* A. Kerber, 2006-11-15

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