

Special Issue Reprint

Orthogonal Polynomials and Special Functions

Recent Trends and Their Applications

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Orthogonal Polynomials And Special Functions

Wolfram Koepf



Orthogonal Polynomials And Special Functions:

Orthogonal Polynomials and Special Functions Richard Askey, 1975-01-01 Originally presented as lectures the theme of this volume is that one studies orthogonal polynomials and special functions not for their own sake but to be able to use them to solve problems The author presents problems suggested by the isometric embedding of projective spaces in other projective spaces by the desire to construct large classes of univalent functions by applications to quadrature problems and theorems on the location of zeros of trigonometric polynomials There are also applications to combinatorial problems statistics and physical problems

Orthogonal Polynomials and Special Functions Francisco Marcellán, Walter Van Assche, 2006-10-18 Special functions and orthogonal polynomials in particular have been around for centuries Can you imagine mathematics without trigonometric functions the exponential function or polynomials The present set of lecture notes contains seven chapters about the current state of orthogonal polynomials and special functions and gives a view on open problems and future directions

Orthogonal Polynomials and Special Functions Kenier Castillo, Antonio J. Durán, 2024-12-27 The aim of this book is to honor the memory of Professor Jos Carlos Petronilho and hence focuses on his main research areas Special Functions Orthogonal Polynomials Approximation Theory It is a collaborative book and among the contributing authors are outstanding leaders in the field The book addresses different topics exploring the connection between the areas already mentioned and their applications from different perspectives and using several tools both analytical and algebraic Beside the researches working in these topics the book potentially interests the readers working in areas of Mathematics Science and Technology where Approximation Theory Special Functions and Orthogonality are potentially useful tools

Laredo Lectures on Orthogonal Polynomials and Special Functions Renato Alvarez-Nodarse, Francisco Marcellán, Walter van Assche, 2004 This new book presents research in orthogonal polynomials and special functions Recent developments in the theory and accomplishments of the last decade are pointed out and directions for research in the future are identified The topics covered include matrix orthogonal polynomials spectral theory and special functions Asymptotics for orthogonal polynomials via Riemann Hilbert methods Polynomial wavelets and Koornwinder polynomials

Orthogonal Polynomials and Special Functions R. A. Askey, 1974 **Orthogonal Polynomials and Special Functions** SPRINGER, [Special Functions and Orthogonal Polynomials](#) Richard

Beals, Roderick Wong, 2016-05-17 The subject of special functions is often presented as a collection of disparate results rarely organized in a coherent way This book emphasizes general principles that unify and demarcate the subjects of study The authors main goals are to provide clear motivation efficient proofs and original references for all of the principal results The book covers standard material but also much more It shows how much of the subject can be traced back to two equations the hypergeometric equation and confluent hypergeometric equation and it details the ways in which these equations are canonical and special There is extended coverage of orthogonal polynomials including connections to approximation theory

continued fractions and the moment problem as well as an introduction to new asymptotic methods There are also chapters on Meijer G functions and elliptic functions The final chapter introduces Painlevé transcendents which have been termed the special functions of the twenty first century *Orthogonal Polynomials and Special Functions*, 2003 *Orthogonal Polynomials and Special Functions (Mathematics Essentials)* Alma Adams, 2023-09-26 Orthogonal polynomials are a family of polynomials wherein any two different polynomials in the sequence are orthogonal to each other under some inner product Classical orthogonal polynomials Hermite polynomials Laguerre polynomials Jacobi polynomials and Gegenbauer polynomials are a few examples of orthogonal polynomials These polynomials are used for least square approximations of a function difference equations and Fourier series Another major application of orthogonal polynomials is error correcting code and sphere packing Orthogonal polynomials and special functions are useful mathematical functions which have applications in various fields such as mathematical physics statistics and probability and engineering These can be used to explain many physical and chemical phenomena This book traces the recent studies in orthogonal polynomials and special functions A number of latest researches have been included to keep the readers updated with the latest concepts in this area of study With state of the art inputs by acclaimed experts of mathematics this book targets students and professionals **Special Functions and Orthogonal Polynomials** Diego Dominici, Robert Sullivan Maier, 2008 This volume contains fourteen articles that represent the AMS Special Session on Special Functions and Orthogonal Polynomials held in Tucson Arizona in April of 2007 It gives an overview of the modern field of special functions with all major subfields represented including applications to algebraic geometry asymptotic analysis conformal mapping differential equations elliptic functions fractional calculus hypergeometric and q hypergeometric series nonlinear waves number theory symbolic and numerical evaluation of integrals and theta functions A few articles are expository with extensive bibliographies but all contain original research This book is intended for pure and applied mathematicians who are interested in recent developments in the theory of special functions It covers a wide range of active areas of research and demonstrates the vitality of the field **BOOK JACKET** **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

Orthogonal Polynomials and Special Functions Yamilet Quintana, 2024-08-16 Orthogonal polynomials and special functions are two well established streams of research in mathematical sciences As is well known they are considered classical and have seen many very interesting developments throughout the centuries extending to original approaches and in depth studies of the theoretical and or applied problems considered Since orthogonal polynomials and special functions are often used in applications they have found use in various branches of mathematics e g combinatorics numerical analysis representation theory and number theory and engineering physics and astronomy integrable systems optics quantum chemistry computer science etc As such the number of theoretical and applied problems solved using orthogonal polynomials

and special functions is constantly growing The aim of this Special Issue is to present recent trends and applications linked to orthogonal polynomials and special functions mainly those pertaining to engineering mathematics and related topics

Recent Advances in Orthogonal Polynomials, Special Functions, and Their Applications Jorge Arves, Guillermo Lopez Lagomasino, 2012-09-11 This volume contains the proceedings of the 11th International Symposium on Orthogonal Polynomials Special Functions and their Applications held August 29 September 2 2011 at the Universidad Carlos III de Madrid in Leganes Spain The papers cover asymptotic properties of polynomials on curves of the complex plane universality behavior of sequences of orthogonal polynomials for large classes of measures and its application in random matrix theory the Riemann Hilbert approach in the study of Pade approximation and asymptotics of orthogonal polynomials quantum walks and CMV matrices spectral modifications of linear functionals and their effect on the associated orthogonal polynomials bivariate orthogonal polynomials and optimal Riesz and logarithmic energy distribution of points The methods used include potential theory boundary values of analytic functions Riemann Hilbert analysis and the steepest descent method **A**

Package on Orthogonal Polynomials and Special Functions Wolfram Koepf, 1996 Abstract In many applications hypergeometric type special functions like orthogonal polynomials are needed For example in more than 50% of the published solutions for the application oriented questions in the Problems Section of SIAM Review special functions occur In this article the Mathematica package SpecialFunctions which can be obtained from the URL <http://www.zib.de/koepf> is introduced 15 Algorithms to convert between power series representations and their generating functions is the main topic of this package 8 15 extending the previous package PowerSeries 12 Moreover the package automatically finds differential and recurrence equations 13 14 for expressions and for sums the latter using Zeilberger's algorithm 23 18 13 As an application the fast computation of polynomial approximations of solutions of linear differential equations with polynomial coefficients is presented This is the asymptotically fastest known algorithm for series computations and it is much faster than Mathematica's builtin `Series` command if applicable Many more applications are considered Finally the package includes implementations supporting the efficient computation of classical continuous and discrete orthogonal polynomials

Difference Equations, Special Functions and Orthogonal Polynomials Saber Elaydi, 2007 This volume contains talks given at a joint meeting of three communities working in the fields of difference equations special functions and applications ISDE OPSFA and SIDE The articles reflect the diversity of the topics in the meeting but have difference equations as common thread Articles cover topics in difference equations discrete dynamical systems special functions orthogonal polynomials symmetries and integrable difference equations Orthogonal polynomials and special functions Richard A. Askey, 1975

Identities for Families of Orthogonal Polynomials and Special Functions Wolfram Koepf, 1995 Abstract In this article we present new results for families of orthogonal polynomials and special functions that are determined by algorithmical approaches In the first section we present new results especially for discrete families of orthogonal polynomials

obtained by an application of the celebrated Zeilberger algorithm Next we present algorithms for holonomic families $f_n(x)$ of special functions which possess a derivative rule We call those families admissible A family $f_n(x)$ is holonomic if it satisfies a holonomic recurrence equation with respect to n and a holonomic differential equation with respect to x i e linear homogeneous equations with polynomial coefficients The rather rigid property of admissibility has many interesting consequences that can be used to generate and verify identities for these functions by linear algebra techniques On the other hand many families of special functions in particular families of orthogonal polynomials are admissible We moreover present a method that generates the derivative rule from the holonomic representation of a holonomic family As examples we find new identities for the Jacobi polynomials and for the Whittaker functions and for families of discrete orthogonal polynomials by the given approach Finally we present representations for the parameter derivatives of the Gegenbauer and the generalized Laguerre polynomials

Special Functions and Orthogonal Polynomials Refaat El Attar, 2006 308 Pages

This book is written to provide an easy to follow study on the subject of Special Functions and Orthogonal Polynomials It is written in such a way that it can be used as a self study text Basic knowledge of calculus and differential equations is needed The book is intended to help students in engineering physics and applied sciences understand various aspects of Special Functions and Orthogonal Polynomials that very often occur in engineering physics mathematics and applied sciences The book is organized in chapters that are in a sense self contained Chapter 1 deals with series solutions of Differential Equations Gamma and Beta functions are studied in Chapter 2 together with other functions that are defined by integrals Legendre Polynomials and Functions are studied in Chapter 3 Chapters 4 and 5 deal with Hermite Laguerre and other Orthogonal Polynomials A detailed treatise of Bessel Function is given in Chapter 6

Orthogonal Polynomials Paul Nevai, 1989-12-31

This volume contains the Proceedings of the NATO Advanced Study Institute on Orthogonal Polynomials and Their Applications held at The Ohio State University in Columbus Ohio U S A between May 22 1989 and June 3 1989 The Advanced Study Institute primarily concentrated on those aspects of the theory and practice of orthogonal polynomials which surfaced in the past decade when the theory of orthogonal polynomials started to experience an unparalleled growth This progress started with Richard Askey's Regional Conference Lectures on Orthogonal Polynomials and Special Functions in 1975 and subsequent discoveries led to a substantial reevaluation of one's perceptions as to the nature of orthogonal polynomials and their applicability The recent popularity of orthogonal polynomials is only partially due to Louis de Branges's solution of the Bieberbach conjecture which uses an inequality of Askey and Gasper on Jacobi polynomials The main reason lies in their wide applicability in areas such as Padé approximations continued fractions Tauberian theorems numerical analysis probability theory mathematical statistics scattering theory nuclear physics solid state physics digital signal processing electrical engineering theoretical chemistry and so forth This was emphasized and convincingly demonstrated during the presentations by both the principal speakers and the invited special lecturers The main subjects of our Advanced Study Institute included

complex orthogonal polynomials signal processing the recursion method combinatorial interpretations of orthogonal polynomials computational problems potential theory Pade approximations Julia sets special functions quantum groups weighted approximations orthogonal polynomials associated with root systems matrix orthogonal polynomials operator theory and group representations **Proceedings of the Seventh International Symposium on Orthogonal Polynomials, Special Functions and Applications** International Symposium on Orthogonal Polynomials, Special Functions and Their Applications. 7, 2003, København, J. S. Christiansen, H. L. Pedersen, 2005

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Orthogonal Polynomials And Special Functions Introduction

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