



Jacobi Series Approximation

**Roelof Koekoek, Peter A. Lesky, René F.
Swarttouw**

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Jacobi Series and Approximation H. Bavinck, 1972 **Jacobi Series and Approximation** H. Bavinck, 1969

Algebraic Approximation: A Guide to Past and Current Solutions Jorge Bustamante, 2011-11-15 This book contains an exposition of several results related with direct and converse theorems in the theory of approximation by algebraic polynomials in a finite interval In addition some facts concerning trigonometric approximation that are necessary for motivation and comparisons are included The selection of papers that are referenced and discussed document some trends in polynomial approximation from the 1950s to the present day Approximation Theory and Function Series P. Vértesi, 1996

Approximation Processes Involving Jacobi Series And Wavelets Sarjoo Prasad Yadav, 2014-04 Infinite series and its convergence are basic concepts to know mathematics from very beginning of primary stage It revolves in the minds of mathematicians all along life and creates visionary power to estimate everything that comes in the mind This estimation is called approximation if put on sound footings with axioms So every measurement by naked eye or ear or by sophisticated instruments is merely an approximation It is hoped that in this monograph approximation by wavelets will be useful in technology and communication science in coming days **Special Functions and Their Approximations: v. 2** Yudell L.

Luke, 1969 **Special Functions and Their Approximations v 2** **Mathematical Functions and Their Approximations** Yudell L. Luke, 2014-05-10 **Mathematical Functions and their Approximations** is an updated version of the Applied Mathematics Series 55 Handbook based on the 1954 Conference on Mathematical Tables held at Cambridge Massachusetts The aim of the conference is to determine the need for mathematical tables in view of the availability of high speed computing machinery This work is composed of 14 chapters that cover the machinery for the expansion of the generalized hypergeometric function and other functions in infinite series of Jacobi and Chebyshev polynomials of the first kind Numerical coefficients for Chebyshev expansions of the more common functions are tabulated Other chapters contain polynomial and rational approximations for certain class of G functions the coefficients in the early polynomials of these rational approximations and the Pad approximations for many of the elementary functions and the incomplete gamma functions The remaining chapters describe the development of analytic approximations and expansions This book will prove useful to mathematicians advance mathematics students and researchers *The Special Functions and Their*

Approximations Yudell L. Luke, 1969 A detailed and self contained and unified treatment of many mathematical functions which arise in applied problems as well as the attendant mathematical theory for their approximations many common features of the Bessel functions Legendre functions incomplete gamma functions confluent hypergeometric functions as well as of otherw can be derived Hitherto many of the material upon which the volumes are based has been available only in papers scattered throughout the literature **Approximation of Functions by Polynomials and Splines** S. B.

Stechkin, 1981 Papers and articles about polynomials and splines pproximation **Nonlinear Control Systems 2004** Frank

Allgower, Michael Zeitz, 2005-02-02

Hypergeometric Orthogonal Polynomials and Their q -Analogues Roelof

Koekoek, Peter A. Lesky, René F. Swarttouw, 2010-03-18 The present book is about the Askey scheme and the q Askey scheme which are graphically displayed right before chapter 9 and chapter 14 respectively The families of orthogonal polynomials in these two schemes generalize the classical orthogonal polynomials Jacobi Laguerre and Hermite polynomials and they have properties similar to them In fact they have properties so similar that I am inclined following Andrews Askey 34 to call all families in the q Askey scheme classical orthogonal polynomials and to call the Jacobi Laguerre and Hermite polynomials very classical orthogonal polynomials These very classical orthogonal polynomials are good friends of mine since most the beginning of my mathematical career When I was a fresh PhD student at the Mathematical Centre now CWI in Amsterdam Dick Askey spent a sabbatical there during the academic year 1969 1970 He lectured to us in a very stimulating way about hypergeometric functions and classical orthogonal polynomials Even better he gave us problems to solve which might be worth a PhD He also pointed out to us that there was more than just Jacobi Laguerre and Hermite polynomials for instance Hahn polynomials and that it was one of the merits of the Higher Transcendental Functions Bateman project that it included some newer stuff like the Hahn polynomials see 198 10 23

Approximation and Computation: A Festschrift in Honor of Walter Gautschi R.V.M. Zahar, 2012-12-06 R V M Zahar The sixty fifth birthday of Walter Gautschi provided an opportune moment for an international symposium in his honor to recognize his many contributions to mathematics and computer sciences Conceived by John Rice and sponsored by Purdue University the conference took place in West Lafayette from December 2 to 5 1993 and was organized around the four main themes representing Professor Gautschi's principal research interests Approximation Orthogonal Polynomials Quadrature and Special Functions Thirty eight speakers colleagues co authors research collaborators or doctoral students of Professor Gautschi were invited to present articles at the conference their lectures providing an approximately equal representation of the four disciplines Five invited speakers Germund Dahlquist Philip Davis Luigi Gatteschi Werner Rheinboldt and Stephan Ruscheweyh were unable to present their talks because of illness or other commitments although Professors Dahlquist Gatteschi and Ruscheweyh subsequently contributed articles to these proceedings Thus the final program contained thirty three technical lectures ten of which were plenary sessions Approximately eighty scientists attended the conference and for some sessions in particular Walter's presentation of his entertaining and informative Reflections and Recollections that number was complemented by many visitors and friends as well as the family of the honoree A surprise visit by Paul Erdos provided one of the highlights of the conference week The ambiance at the symposium was extremely collegial due no doubt to the common academic interests and the personal friendships shared by the participants

Fourier Series In Orthogonal Polynomials Boris Osilenker, 1999-04-01

This book presents a systematic course on general orthogonal polynomials and Fourier series in orthogonal polynomials It consists of six chapters Chapter 1 deals in essence with standard results from the university course on the function theory of

a real variable and on functional analysis Chapter 2 contains the classical results about the orthogonal polynomials some properties classical Jacobi polynomials and the criteria of boundedness The main subject of the book is Fourier series in general orthogonal polynomials Chapters 3 and 4 are devoted to some results in this topic classical results about convergence and summability of Fourier series in L^2 summability almost everywhere by the Cesaro means and the Poisson Abel method for Fourier polynomial series are the subject of Chapters 4 and 5 The last chapter contains some estimates regarding the generalized shift operator and the generalized product formula associated with general orthogonal polynomials The starting point of the technique in Chapters 4 and 5 is the representations of bilinear and trilinear forms obtained by the author The results obtained in these two chapters are new ones Chapters 2 and 3 and part of Chapter 1 will be useful to postgraduate students and one can choose them for treatment This book is intended for researchers mathematicians mechanics and physicists whose work involves function theory functional analysis harmonic analysis and approximation theory

Invitation To Q-series, An: From Jacobi's Triple Product Identity To Ramanujan's "Most Beautiful Identity" Hei-chi Chan, 2011-04-04 The aim of these lecture notes is to provide a self contained exposition of several fascinating formulas discovered by Srinivasa Ramanujan Two central results in these notes are 1 the evaluation of the Rogers Ramanujan continued fraction a result that convinced G H Hardy that Ramanujan was a mathematician of the highest class and 2 what G H Hardy called Ramanujan's Most Beautiful Identity This book covers a range of related results such as several proofs of the famous Rogers Ramanujan identities and a detailed account of Ramanujan's congruences It also covers a range of techniques in q series

Handbook of Analytic Computational Methods in Applied Mathematics George Anastassiou, 2019-06-03 Working computationally in applied mathematics is the very essence of dealing with real world problems in science and engineering Approximation theory on the borderline between pure and applied mathematics has always supplied some of the most innovative ideas computational methods and original approaches to many types of problems

The f **Orthogonal Polynomials and Their Applications** Jaime Vinuesa, 1989-05-25 *Functiones Et Approximatio Commentarii Mathematici*, 1980

Special Functions - Proceedings Of The International Workshop Charles F Dunki, Mourad E H Ismail, Roderick S C Wong, 2000-10-27 Special functions and q series are currently very active areas of research which overlap with many other areas of mathematics such as representation theory classical and quantum groups affine Lie algebras number theory harmonic analysis and mathematical physics This book presents the state of the art of the subject and its applications

Approximation Methods and Analytical Modeling Using Partial Differential Equations Tamara Fastovska, Yurii Kolomoitsev, Kateryna Buryachenko, Marina Chugunova, 2025-03-28 Adequate mathematical modeling is the key to success for many real world projects in engineering medicine and other applied areas As soon as an appropriate mathematical model is developed it can be comprehensively analyzed by a broad spectrum of available mathematical methods For example compartmental models are widely used in mathematical epidemiology to describe the

dynamics of infectious diseases and in mathematical models of population genetics While the existence of an optimal solution under certain condition can be often proved rigorously this does not always mean that such a solution is easy to implement in practice Finding a reasonable approximation can in itself be a challenging research problem This Research Topic is devoted to modeling analysis and approximation problems whose solutions exploit and explore the theory of partial differential equations It aims to highlight new analytical tools for use in the modeling of problems arising in applied sciences and practical areas Researchers are invited to submit articles that investigate the qualitative behavior of weak solutions removability conditions for singularities the dependence of the local asymptotic property of these solutions on initial and boundary data and also the existence of solutions Contributors are particularly encouraged to focus on anisotropic models analyzing the preconditions on the strength of the anisotropy and comparing the analytical estimates for the growth behavior of the solutions near the singularities with the observed growth in numerical simulations The qualitative analysis and analytical results should be confirmed by the numerically observed solution behavior

Operator Theory and Differential Equations Anatoly G. Kusraev, Zhanna D. Totieva, 2021-01-13 This volume features selected papers from The Fifteenth International Conference on Order Analysis and Related Problems of Mathematical Modeling which was held in Vladikavkaz Russia on 15-20th July 2019 Intended for mathematicians specializing in operator theory functional spaces differential equations or mathematical modeling the book provides a state of the art account of various fascinating areas of operator theory ranging from various classes of operators positive operators convolution operators backward shift operators singular and fractional integral operators partial differential operators to important applications in differential equations inverse problems approximation theory metric theory of surfaces the Hubbard model social stratification models and viscous incompressible fluids

Jacobi Series Approximation Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Jacobi Series Approximation**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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