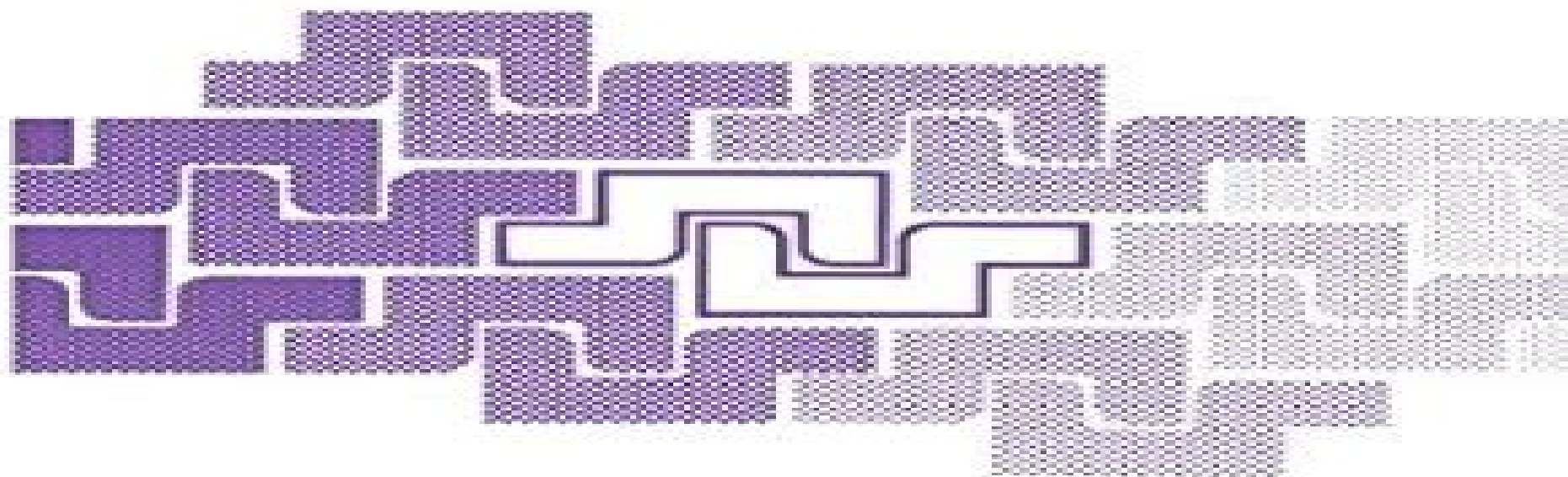




Orthogonal Polynomials: Theory and Practice

Edited by

Paul Nevai

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A.A. Gonchar, E.B. Saff



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Orthogonal Polynomials Paul Nevai, 2012-12-06 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 Padé approximations Julia sets special functions quantum groups weighted approximations orthogonal polynomials associated with rootsystems matrix orthogonal polynomials operator theory and group representations Orthogonal Polynomials Paul G. Nevai, 1979 The purpose of the present paper is to improve some results on orthogonal polynomials Christoffel functions orthogonal Fourier series eigenvalues of Toeplitz matrices and Lagrange interpolation Most of the paper deals with Christoffel functions and their applications **Orthogonal Polynomials** Paul Nevai, 1989-12-31 **Progress in Approximation Theory** A.A. Gonchar, E.B. Saff, 2012-12-06 Designed to give a contemporary international survey of research activities in approximation theory and special functions this book brings together the work of approximation theorists from North America Western Europe Asia Russia the Ukraine and several other former Soviet countries Contents include results dealing with q hypergeometric functions difference hypergeometric functions and basic hypergeometric series with Schur function argument the theory of orthogonal polynomials and expansions including generalizations of Szegő type asymptotics and connections with Jacobi matrices the convergence theory for Padé and Hermite Padé approximants with emphasis on techniques from potential theory material on wavelets and fractals and their relationship to invariant measures and nonlinear approximation generalizations of de Branges's inequality for univalent functions in a quasi-orthogonal Hilbert space setting applications of results concerning approximation by entire functions and the problem of analytic continuation and other topics **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

Orthogonal Polynomials for Exponential Weights Eli Levin, Doron S. Lubinsky, 2012-12-06 The analysis of orthogonal polynomials associated with general weights was a major theme in classical analysis in the twentieth century and undoubtedly will continue to grow in importance in the future In this monograph the authors investigate orthogonal polynomials for exponential weights defined on a finite or infinite interval The interval should contain 0 but need not be symmetric about 0 likewise the weight need not be even The authors establish bounds and asymptotics for orthonormal and extremal polynomials and their associated Christoffel functions They deduce bounds on zeros of extremal and orthogonal polynomials and also establish Markov Bernstein and Nikolskii inequalities The authors have collaborated actively since 1982 on various topics and have published many joint papers as well as a Memoir of the American Mathematical Society The latter deals with a special case of the weights treated in this book In many ways this book is the culmination of 18 years of joint work on orthogonal polynomials drawing inspiration from the works of many researchers in the very active field of orthogonal polynomials

A Guide to Quantum Groups Vyjayanthi Chari, Andrew N. Pressley, 1995-07-27 Since they first arose in the 1970s and early 1980s quantum groups have proved to be of great interest to mathematicians and theoretical physicists The theory of quantum groups is now well established as a fascinating chapter of representation theory and has thrown new light on many different topics notably low dimensional topology and conformal field theory The goal of this book is to give a comprehensive view of quantum groups and their applications The authors build on a self contained account of the foundations of the subject and go on to treat the more advanced aspects concisely and with detailed references to the

literature Thus this book can serve both as an introduction for the newcomer and as a guide for the more experienced reader All who have an interest in the subject will welcome this unique treatment of quantum groups *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 revaluation 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 Padé approximations Julia sets special functions quantum groups weighted approximations orthogonal polynomials associated with root systems matrix orthogonal polynomials operator theory and group representations **Walter Gautschi, Volume 2** Claude Brezinski,Ahmed Sameh,2013-10-22 Walter Gautschi has written extensively on topics ranging from special functions quadrature and orthogonal polynomials to difference and differential equations software implementations and the history of mathematics He is world renowned for his pioneering work in numerical analysis and constructive orthogonal polynomials including a definitive textbook in the former and a monograph in the latter area This three volume set Walter Gautschi Selected Works with Commentaries is a compilation of Gautschi s most influential papers and includes commentaries by leading experts The work begins with a detailed biographical section and ends with a section commemorating Walter s prematurely deceased twin brother This title will appeal to graduate students and researchers in numerical analysis as well as to historians of science Selected Works with Commentaries Vol 1 Numerical Conditioning Special Functions Interpolation and Approximation Selected Works with Commentaries Vol 2 Orthogonal Polynomials on the Real Line Orthogonal Polynomials on the Semicircle Chebyshev Quadrature Kronrod and Other Quadratures Gauss type Quadrature Selected Works with Commentaries Vol 3 Linear Difference Equations Ordinary Differential Equations Software History and Biography Miscellanea Works of Werner Gautschi Computer Algebra in Quantum Field Theory Carsten Schneider,Johannes

Blümlein,2013-10-05 The book focuses on advanced computer algebra methods and special functions that have striking applications in the context of quantum field theory It presents the state of the art and new methods for infinite multiple sums multiple integrals in particular Feynman integrals difference and differential equations in the format of survey articles The presented techniques emerge from interdisciplinary fields mathematics computer science and theoretical physics the articles are written by mathematicians and physicists with the goal that both groups can learn from the other field including most recent developments Besides that the collection of articles also serves as an up to date handbook of available algorithms software that are commonly used or might be useful in the fields of mathematics physics or other sciences

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