

## DIFFERENCE EQUATIONS SPECIAL FUNCTIONS AND ORTHOGONAL POLYNOMIALS ELAYDI S CUSHING J LASSER R%0A

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Difference Equations, Special Functions and Orthogonal ...

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.

Difference Equations, Special Functions and Orthogonal ...

Among others this conference brought together researchers from three societies and organizations: the International Society of Difference Equations (ISDE), Orthogonal Polynomials, Special Functions and Applications (OPSFA), and Symmetries and Integrability of Difference Equations (SIDE).

J.M. Cushing Publications - University of Arizona

J. M. Cushing, Systems of difference equations and structured population dynamics, Proceedings of the First International Conference on Difference Equations (Saber N. Elaydi, John R. Graef, Gerry Ladas, Allan C. Peterson, editors), Gordon and Breach Publishers, US, 1995, pp. 123-132

The Symmetric Semi-classical Orthogonal Polynomials of ...

Abstract. We study a large class of orthogonal polynomials, containing the semi-classical symmetric orthogonal polynomials of class two. We show difference equations for the recurrence coefficients of the orthogonal polynomials as well as for related quantities.

The Relationship Between Semiclassical Laguerre ...

Abstract. We discuss the relationship between the recurrence coefficients of orthogonal polynomials with respect to a semiclassical Laguerre weight and classical solutions of the fourth Painlevé equation.

Approximate Solutions of Differential Equations by Using ...

solving differential equations  $s_j \neq 0$  thus greatly simplifying the equations. Special attention has been given to the applications of Legendre wavelets method [9-11], Homotopy perturbation method HPM [12], modified decomposition method MDM [13]. Taylor these can be expressed in terms of some orthogonal polynomials, such as the Legendre

Dual equations and classical orthogonal polynomials ...

JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS 24, 677-685 (1968) Dual Equations and Classical Orthogonal Polynomials I RICHARD ASKEY Department of Mathematics, University of Wisconsin,

Madison, Wisconsin 53706 Submitted by R. P. Boas In the last ten years there has been much interest in dual integral equations and a discrete analogue, dual series equations.

**Properties of generalized Freud polynomials - ScienceDirect**

Asymptotic properties of generalized Freud Polynomials as  $n \rightarrow \infty$  Linear second-order differential equations, which are at the heart of much of special function theory, can be used in various ways to obtain asymptotic approximations and inequalities. A differential equation for orthogonal polynomials. Duke Math. J., 5 (1939), pp. 401-417

**Function Approximation and Functional Equations**

discuss a computational procedure to solve functional equations. R. Chang (Rutgers) Function Approximation April 2013 3 / 21. With polynomial approximation, the obvious choice of nodes is equidistant The simplest method is piecewise linear approximation, aka "connect the dots" A popular alternative: piecewise cubic

**Equation - Wikipedia**

A functional differential equation of delay differential equation is a function equation involving derivatives of the unknown functions, evaluated at multiple points, such as  $f'(x) = f(x)$  A difference equation is an equation where the unknown is a function  $f$  that occurs in the equation through  $f(x)$ ,  $f(x-1)$ , ...,  $f(x-k)$ , for some whole integer  $k$  called the order of the equation.