

CLASSICAL ORTHOGONAL POLYNOMIALS OF A DISCRETE VARIABLE

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Classical orthogonal polynomials of a discrete variable ...

classical orthogonal polynomials of a discrete variable on nonuniform lattices. For another definition of this class of special functions, see [19]. REMARK 2.1. The function $p(z)$ is defined as a solution of difference Equation (1.5) up to an arbitrary periodic factor of period 1.

Zeros of classical orthogonal polynomials of a discrete ...

orthogonal polynomials of a discrete variable, considered as functions of a Since most of the classical orthogonal polynomials depend on parameters, one

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4. Classical Orthogonal Polynomials of a Discrete Variable ...

4. Classical Orthogonal Polynomials of a Discrete Variable in Applied Mathematics 4.1 Quadrature Formulas of Gaussian Type In the approximate calculation

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Classical Orthogonal Polynomials of a Discrete Variable in Applied Mathematics --4.1 Quadrature Formulas of Gaussian Type --4.2 Compression of Information by Means of the Hahn Polynomials --4.3 Spherical Harmonics Orthogonal on a Discrete Set of Points --4.4 Some Finite-Difference Methods of Solution of Partial Differential Equations --4.5 Systems of Differential Equations with Constant Coefficients.

The first procedure for the classical orthogonal ...

The first procedure for the classical orthogonal polynomials of a continuous and discrete variable Mixedrec:--proc(F,k,Sn,shift0,alpha,shift1,beta,shift2)

Classical Orthogonal Polynomials of a Discrete Variable ...

While classical orthogonal polynomials appear as solutions to hypergeometric differential equations, those of a discrete variable emerge as solutions of difference equations of hypergeometric type on lattices.

On Fourth-order Difference Equations for Orthogonal

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On Fourth-order Difference Equations for Orthogonal Polynomials of a Discrete Variable: of classical discrete orthogonal polynomials

On the properties for modifications of classical ...

sical orthogonal polynomials of a discrete variable in the uniform lattice $x(s)=s$ are the polynomial solution of a second-order linear difference equation of hypergeometric type $\sigma_-(x) \sim \nu P_0(x) + r(x) \sim P_1(x) + 2 P_0(x) = \sigma_+(x)$ (1) where $\nu f(x) = f(x) - f(x-1)$; $k f(x) = f(x+1) - f(x)$.

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