
99i:39006

Foupouagnigni, M.; **Koepf, W.** (D-KOZU); **Ronveaux, A.** (B-NDP-MP)

Fourth-order difference equation for the associated classical discrete orthogonal polynomials. (English summary)

J. Comput. Appl. Math. **92** (1998), no. 2, 103–108.
39A10 (33C45 39A12)

Summary: “We derive the fourth-order difference equation that is satisfied by the classical orthogonal polynomials of association order r of a discrete variable.

“The coefficients of this equation are given in terms of the polynomials σ and τ which appear in the discrete Pearson equation $\Delta(\sigma\rho) = \tau\rho$ defining the weight $\rho(x)$ of the classical discrete orthogonal polynomials.”