



DIFFERENTIAL EQUATION OF TWO-INDEX
GEGENBAUER POLYNOMIALS

$$Y_{m,n}^{(\alpha)}(x, y; \tau)$$

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Abstract

Dattoli et al. [G. Dattoli, P. E. Ricci and H. M. Srivastava, Two-index multidimensional Gegenbauer polynomials and their integral representations, Mathematical and Computer Modelling 37 (2003), 283-291] defined the two-index Gegenbauer polynomials $Y_{m,n}^{(\alpha)}(x, y; \tau)$. We examine differential equation satisfied by them.

Keywords and phrases: differential equation, two-index Gegenbauer polynomials.

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