

DIFFERENTIAL EQUATION OF TWO-INDEX GENERALIZED GEGENBAUER POLYNOMIALS

 $V_{m,n}^{(\alpha)}(x, y; z, w|\tau)$

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Received November 27, 2019

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 generalized Gegenbauer polynomials $V_{m,n}^{(\alpha)}(x, y; z, w|\tau)$. We examine differential equation satisfied by them.

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

ISSN: 2230-9829

Pioneer Journal of Mathematics and Mathematical Sciences



Pioneer Scientific Publisher