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A PARTICULAR CLASS OF ROMANOVSKI POLYNOMIALS AND THEIR APPLICATIONS

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Abstract

In this paper, we examine one of the five possible real polynomial solutions of the hypergeometric differential equation. For the defined class, we find orthogonality relation, Rodrigues formula, norm square value and generating function. Finally some applications are discussed.

Key Words : *Orthogonal polynomials, Hypergeometric functions, Schrödinger equation.*

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