PROPERTIES OF BILINEAR CONCOMITANT ASSOCIATED WITH $n \times n$ MATRIX DIFFERENTIAL OPERATOR

S. K. SUDHANSHU[1] AND R. PRASAD[2]

[1,2] University Department of Mathematics,
Magadh University, Bodh Gaya-824234, India

Abstract

In this paper the differential system $L\phi\lambda F\phi$, where L is the matrix operator, F is a symmetric matrix of order n, ϕ is a vector having n components and λ is a parameter real or complex with suitable boundary conditions has been considered. Here the properties of Bilinear concomitant associated with the boundary value problem involving the above differential operator have been deduced and they have been expressed in the form of theorems.

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