International J. of Math. Sci. \& Engg. Appls. (IJMSEA)

## ON $k$-ORTHOGONAL MATRICES

## S. KRISHNAMOORTHY, K. GUNASEKARAN AND G. BHUVANESWARI


#### Abstract

In this paper, the results concerning orthogonal matrices are extended to $k$ orthogonal matrix and skew $k$-orthogonal matrix. Also the elementary properties of $k$-symmetric, skew $k$-symmetric matrices are studied.


Key Words : $k$-orthogonal, skew $k$-orthogonal, $k$-symmetric, skew $k$-symmetric matrices. 2000 AMS Subject Classification : 15A16, 15A21, 15A23.
(c) http: //www.ascent-journals.com

