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## **ON** *k* -ORTHOGONAL MATRICES

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## 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.

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Key Words : k-orthogonal, skew k-orthogonal, k-symmetric, skew k- symmetric matrices. 2000 AMS Subject Classification : 15A16, 15A21, 15A23.

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