

**A STUDY ON THE SE -CONNECTION
AND ITS CURVATURE TENSOR IN $*g$ - SEX_n**

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An n -dimensional $*g$ - SE -manifold $*g$ - SEX_n is a generalized Riemannian space connected by the SE -connection which is both semi-symmetric and Einstein. The purpose of the present paper is to study the SE -connection and its curvature tensor in $*g$ - SEX_n . In this paper, we show that the SE -connection uniquely exists in $*g$ - SEX_n and represent it in terms of the basic real tensor $*g_{\lambda\mu}$ employing newly obtained recurrence relations. Furthermore, we investigate the properties of the curvature tensor and its contracted curvature tensors defined by the SE -connection in $*g$ - SEX_n , and derive several useful generalized identities involving them.

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