A STUDY ON THE N-DIMENSIONAL SE-CONNECTION AND ITS CONFORMAL CHANGE

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The purpose of the present paper is to investigate properties of n-dimensional SE-connection $\Gamma_{\lambda\mu}{}^{\nu}$ and its change induced by the conformal change. In the present paper, we shall find a necessary and sufficient condition for the existence of a unique SE-connection and derive its surveyable representations in terms of the tensor $g_{\lambda\mu}$. We also derive a useful representation of its change induced by the conformal change. All considerations in this paper are dealt for general n, for all classes, and for all possible indices of inertia.

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