ON Xn MANIFOLD

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Abstract

In this paper, we have considered χ_n-manifold and nearly χ_n- manifold. It has been shown that the χ_n-manifold is Integrable. We have also considered an affine connexion $\tilde{B}$ defined by $\tilde{B}_X Y = D_X Y + H(X, Y)$. It has been shown that on χ_n-manifold, $H(X, Y)$ is skew-symmetric. Also it has been proved that χ_n-manifold is necessarily nearly χ_n-manifold. Some Other useful results and theorems have been obtained, which are of great geometrical importance.