

ON χ_n 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.

Key Words: χ_1 -manifold, Almost unified para- norden contact metric manifold, χ_n -Manifold, skew-symmetric, semi-symmetric non metric connexion.

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