



NONEXISTENCE OF WARPED PRODUCT HEMI-SLANT SUBMANIFOLDS OF AN S -MANIFOLD

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Abstract

The purpose of this paper is to study warped product hemi-slant sub-manifolds of S -manifolds. First, we obtain a proposition that there do not exist warped product hemi-slant submanifolds of S -manifolds if ξ_α structure vector fields tangent to second factor, and then prove that the warped product of the type $M_\perp \times_f M_\theta$ with $\xi_\alpha \in M_\perp$ does not exist.

Keywords and phrases: warped product, hemi-slant submanifolds, S -manifold.

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