

Slant and Hemislant Submanifolds of an Indefinite Trans-Sasakian Manifold

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Abstract : In this paper, we would like to establish some of the properties of slant and hemislant submanifolds of an indefinite trans-Sasakian manifold. We have four sections in this paper. The first section is introductory. In Section 2, we recall some necessary details of an indefinite trans-Sasakian manifold. In Section 3, we have obtained some interesting properties on a totally umbilical slant submanifolds of an indefinite trans-Sasakian manifold. Finally, in Section 4, some results on integrability conditions of the distributions of hemislant submanifolds of an indefinite trans-Sasakian manifold have been obtained.

Keywords : slant submanifold, indefinite trans-Sasakian manifold, hemislant submanifold, integrability conditions

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