On Geodesics of the Tangent and Normal Surfaces Defined by TN-Smarandache Curve According to Frenet Frame

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Abstract

In this talk, we first obtain tangent and normal surfaces defined by TN-Smarandache curve according to Frenet frame in Euclidean space. We then investigate the geodesic equations for such surfaces by calculating Christoffel symbols. We also give examples to illustrate our results. Furthermore, we examine similar problems for other ruled surfaces defined by TN-Smarandache curve.

Keywords: Christoffel symbols; Geodesic equations; Frenet frame; Euclidean space.

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