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CONSTRUCTING OF SURFACES THAT ASSOCIATED TO THE EVOLUTION OF THEIR CURVES

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ABSTRACT

In this paper, we will construct a family of surfaces from a given curve. These surfaces are given as a linear combination of the components of their local coordinate frame. We give some examples about the constructed surfaces such as tubular surfaces and special ruled surfaces (osculating surface, rectifying surface, normal surface and Frenet surface.

KEYWORDS: Curve Evolution; Tubular Surface; Curve Flow; Special Ruled Surface