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Some characterizations of slant helices in the euclidean space En

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Abstract

In this work, the notion of a slant helix is extended to the space E_n . First, we introduce the type-2 harmonic curvatures of a regular curve. Thereafter, by using this, we present some necessary and sufficient conditions for a curve to be a slant helix in Euclidean n -space. We also express some integral characterizations of such curves in terms of the curvature functions. Finally, we give some characterizations of slant helices in terms of type-2 harmonic curvatures.

Author Keywords

Euclidean n -space; Frenet equations; Slant helices; Type-2 harmonic curvatures

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