

عنوان مقاله:

Generalization of general helices and slant helices

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خلاصه مقاله:

In this work, we use the formal definition of α -slant helix to obtain the intrinsic equations as well as the position vector for α -slant helices which a generalization of general helices and slant helices. Also, we present some characterizations theorems for α -slant helices and derived, in general form, the intrinsic equations for such curves. Thereafter, from a Salkowski curve, anti-salkowski curve, a curve of constant precession and spherical slant helix, as examples of slant helices, we apply this method to find the parametric representation of some α -slant helices by means of intrinsic equations. Finally, the parametric representation and the intrinsic equations of Salkowski α -slant helices and Anti-Salkowski α -slant helices have been given.

کلمات کلیدی:

General helix, Slant helix, Slant-slant helix, α -slant helix

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