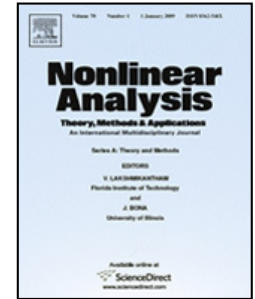




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Position vectors of spacelike general helices in Minkowski 3-space

Ahmad T. Ali*

King Abdul Aziz University, Faculty of Science, Department of Mathematics, PO Box 80203, Jeddah, 21589, Saudi Arabia

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ABSTRACT

In this paper, the position vectors of a spacelike general helix with respect to the standard frame in Minkowski space E_1^3 are studied in terms of the Frenet equations. First, a vector differential equation of third order is constructed to determine the position vectors of an arbitrary spacelike general helix. In terms of solution, we determine the parametric representation of the general helices from the intrinsic equations. Moreover, we give some examples to illustrate how to find the position vectors of spacelike general helices with a spacelike and timelike principal normal vector.

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