

GENERALIZED BOUR'S THEOREM IN MINKOWSKI SPACE FORM

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Abstract

We obtain isometric minimal helicoidal and rotational surfaces using generalized Bour's theorem in three dimensional Minkowski space. In addition, we show that the surfaces preserve minimality when their Gauss maps identically equal, choosing any differentiable functions on the profile curve.

Keywords: Gauss map, Gaussian curvature, helicoidal surface, mean curvature, rotational surface.

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