

Beltrami-Meusnier Formulas of Semi Ruled Surface

Abstract. In this paper, we study the sectional curvatures of the generalized semi ruled surfaces in semi Euclidean space E_v^{n+1} . The first fundamental form and the metric coefficients of the generalized semi ruled surfaces are calculated and in these regards, Riemannian-Christoffel curvatures are obtained by the help of Christoffel Symbols. So, curvatures of arbitrary nondegenere tangential sections of the generalized semi ruled surface is investigated. In addition to this, the relations between the sectional curvatures are obtained. These are called semi-Euclidean Beltrami-Meusnier formulas.

Key words: *Sectional Curvature, Ruled surface, Beltrami-Meusnier Formula.*

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