

cases	doc_1		doc_2		decision	id
					DUPLICATES	72
	authors	<ul style="list-style-type: none">• Ä°lkay Arslan GÃ¼ven• Semra Kaya Nurkan	authors	<ul style="list-style-type: none">• Ä°lkay Arslan GÃ¼ven• Semra Kaya Nurkan		
	title	Ruled Surfaces in Three Dimensional Lie Groups	title	Ruled Surfaces in Three Dimensional Lie Groups		
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	id	id-7373245527757860316	id	id-7422937044119405693		
	abstract	Motivated by a number of recent investigations, we define and investigate the various properties of the ruled surfaces depend on three dimensional Lie groups with a bi-variant metric. We give useful results involving the characterizations of these ruled surfaces. Some special ruled surfaces such as normal surface, binormal surface, tangent developable surface, rectifying developable surface and Darboux developable surface are worked. From those applications, we make use of such a work to interpret the Gaussian, mean curvatures of these surfaces and geodesic, normal curvature and geodesic torsion of the base curves with respect to these surfaces depend on three dimensional Lie groups.	abstract	Motivated by a number of recent investigations, we define and investigate the various properties of the ruled surfaces depend on three dimensional Lie groups with a bi-variant metric. We give useful results involving the characterizations of these ruled surfaces. Some special ruled surfaces such as normal surface, binormal surface, tangent developable surface, rectifying developable surface and Darboux developable surface are worked. From those applications, we make use of such a work to interpret the Gaussian, mean curvatures of these surfaces and geodesic, normal curvature and geodesic torsion of the base curves with respect to these surfaces depend on three dimensional Lie groups.		
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