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Geodesic mappings of affine-connected spaces onto Riemannian spaces. (English)

[Zbl 0792.53012](#)

Szenthe, J. (ed.) et al., Differential geometry and its applications. Proceedings of a colloquium, held in Eger, Hungary, August 20-25, 1989, organized by the János Bolyai Mathematical Society. Amsterdam: North-Holland Publishing Company. Colloq. Math. Soc. János Bolyai. 56, 491-494 (1992).

The paper deals with geodesic mappings of manifolds equipped with affine connections. The main result of the paper contains a local characterization of manifolds equipped with affine connections of zero torsion which admit geodesic mappings onto Riemannian manifolds (equipped with the Levy-Civita connection). The main source of results about geodesic mappings is the book of *N. S. Sinyukov* [Geodesic mappings of Riemannian spaces (Moscow, Nauka 1979; [Zbl 0637.53020](#))]. Reviewer's remark. In the English literature the notion of "affine-connected space" is replaced by a "manifold equipped with an affine connection".

For the entire collection see [[Zbl 0764.00002](#)].

Reviewer: A.Tralle (Szczecin)

MSC:

[53B05](#) Linear and affine connections

Cited in **5** Documents

Keywords:

[geodesic mappings](#); [affine connections](#)