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Tensor fields of type $(0, 2)$ on the tangent bundle of a Riemannian manifold. (English)

Zbl 0921.53013

Geom. Dedicata 71, No. 2, 209-219 (1998).

The authors associate a global matrix function to every $(0, 2)$ -tensor field on the tangent bundle TM of a Riemannian manifold M . This enables them to characterize, in an original way, the natural $(0, 2)$ -tensor fields on M constructed by *O. Kowalski* and *M. Sekizawa* [Bull. Tokyo Gakugei Univ., Sect. IV, Ser. Math. Nat. Sci. 40, 1-29 (1988; Zbl 0656.53021)] and *J. Janyška* [Suppl. Rend. Circ. Mat. Palermo, II. Ser. 32, 165-174 (1994; Zbl 0818.53020)].

Reviewer: I.Kolář (Brno)

MSC:

- 53C20 Global Riemannian geometry, including pinching
- 53B21 Methods of local Riemannian geometry
- 53A55 Differential invariants (local theory), geometric objects

Cited in 3 Documents

Keywords:

connection; $(0, 2)$ -tensor field; tangent bundle; Riemannian manifold

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