

**Atanasiu, Gh.; Klepp, F. C.**

**Metrical almost product structures on the cotangent bundle.** (English) [Zbl 0790.53034](#)

Szente, 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, 75-86 (1992).

On the total space  $T^*M$  of a cotangent bundle  $(T^*M, \pi^*, M)$  one considers a metrical almost product structure  $(G, Q)$ . The authors determine the set of all  $d$ -connections  $\hat{D}$  compatible with  $(G, Q)$ . Some geometrical properties of  $\hat{D}$  and the integrability of  $(G, Q)$  are discussed, too.

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

Reviewer: [R.Miron \(Iași\)](#)

**MSC:**

[53C15](#) General geometric structures on manifolds (almost complex, almost product structures, etc.)

[53C05](#) Connections (general theory)

**Keywords:**

cotangent bundle; metrical almost product structure;  $d$ -connections