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On the classification of almost contact metric manifolds. (English) [Zbl 1418.53085]

Summary: On connected manifolds of dimension higher than three, the non-existence of 132 Chinea and González-Dávila types of almost contact metric structures is proved. This is a consequence of some interrelations among components of the intrinsic torsion of an almost contact metric structure. Such interrelations allow to describe the exterior derivatives of some relevant forms in the context of almost contact metric geometry.

MSC:
53D15 Almost contact and almost symplectic manifolds
53C10 G-structures

Keywords:
almost contact; G-connection; intrinsic torsion; minimal connection; Lee form

Full Text: DOI arXiv

References:

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