

# A semi-symmetric Metric Connection on a Weakly Symmetric Riemannian Manifold

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## **Abstract**

The object of this paper is to study a type of weakly symmetric Riemannian manifolds  $(WS)_n$  admitting semi-symmetric metric connection. The notions of weakly symmetric and weakly projective symmetric spaces were introduced by L. Tamassy and Tran Quoc Binh.

But in this paper,  $(WS)_n$  is investigated and a reduction in  $(WS)_n$  is obtained in a simpler form.

In the last part, we prove the existence of these manifolds by examples.