

For a Riemannian submersion  $\pi : M^n \rightarrow B^b$  with totally geodesic fibers, the submersion invariant

$\tilde{A}_\pi = \sum_{i=1}^b \sum_{s=b+1}^n \|A_{e_i} e_s\|^2$  was introduced using the integrability tensor of the submersion. B. Y. Chen has

provided the inequality on this invariant if the manifold  $M$  admits an isometric immersion into a Riemannian manifold  $\tilde{M}^m$ . Some of the recent results on this invariant are included with examples. This is a continuation of the work published in 2013.