

Sharp inequalities involving the Ricci curvature for Riemannian submersions

Şemsi Eken Meriç

Karadeniz Technical University, Faculty of Science, Trabzon, TURKEY
[semsieken@hotmail.com]

In this paper, we obtain sharp inequalities on Riemannian manifolds admitting a Riemannian submersion and give some characterizations using these inequalities. We improve Chen-Ricci inequality for Riemannian submersion and present some examples which satisfy this inequality.
