Basil J. Papantoniou Contact manifolds, harmonic curvature tensor and (k, μ) -nullity distribution

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Abstract: In this paper we give first a classification of contact Riemannian manifolds with harmonic curvature tensor under the condition that the characteristic vector field ξ belongs to the (k, μ) -nullity distribution. Next it is shown that the dimension of the (k, μ) -nullity distribution is equal to one and therefore is spanned by the characteristic vector field ξ .

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