CONTACT CR-WARPED PRODUCT SUBMANIFOLDS OF A QUASI-SASAKIAN MANIFOLD

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In the present paper we study contact CR-warped product submanifolds of quasi-Sasakian manifolds. We find out the conditions under which a contact CR-submanifold of a quasi-Sasakian manifold becomes a contact CR-warped product or a contact CR-product submanifold. We find estimate of the squared norm of the second fundamental form in terms of the warping function. Equality cases are also investigated.