GENERALISED CAUCHY-RIEMANN LIGHTLIKE SUBMANIFOLDS OF INDEFINITE COSYMPLECTIC MANIFOLDS

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Abstract. DUGGAL and SAHIN have studied generalised Cauchy-Riemann (GCR) lightlike submanifolds of indefinite Sasakian manifolds. In this paper, we study generalised Cauchy-Riemann (GCR) lightlike submanifold of an indefinite cosymplectic manifold and give a few examples also.


Key words: cosymplectic manifold, CR-submanifold, lightlike submanifold, screen and lightlike transversal vector bundles.