

SEMI-INVARIANT SUBMANIFOLDS OF (g, F)-MANIFOLDS

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Abstract. We introduce (g, F) -manifolds and initiate a study of their semi-invariant submanifolds. These submanifolds are generalizations of CR-submanifolds of Kaehler manifolds. We obtain necessary and sufficient conditions for the integrability of distributions on a semi-invariant submanifold and study the geometry of foliations defined by these distributions. In particular, for a large class of (g, F) -manifolds we prove the existence of a natural foliation on their semi-invariant submanifolds.

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