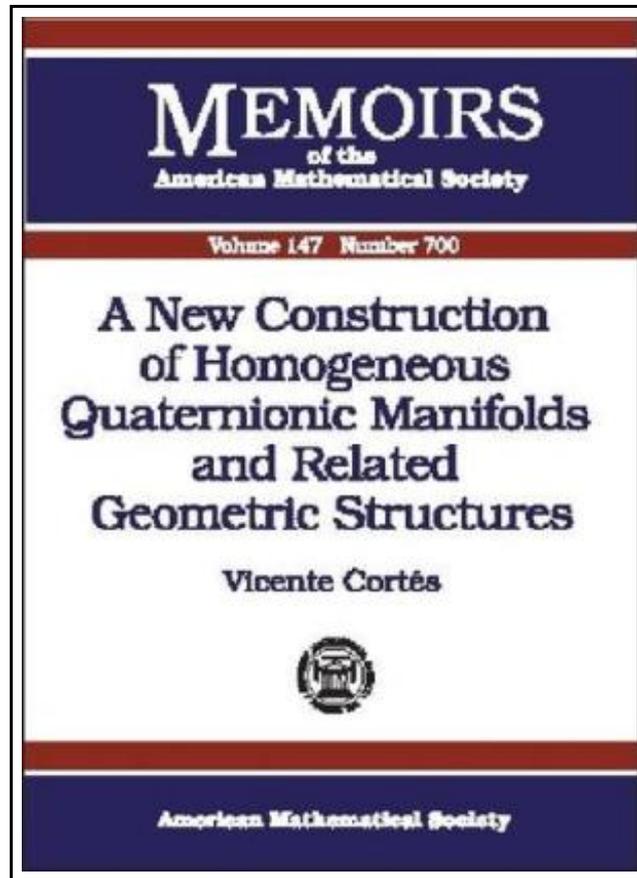


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(Alec Langosh)

A NEW CONSTRUCTION OF HOMOGENEOUS QUATERNIONIC MANIFOLDS AND RELATED GEOMETRIC STRUCTURES

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American Mathematical Society. Paperback. Book Condition: new. BRAND NEW, A New Construction of Homogeneous Quaternionic Manifolds and Related Geometric Structures, Vicente Cortes, Let $V = \{\mathbb{R}\}^p$ be the pseudo-Euclidean vector space of signature (p, q) , $p \geq 3$ and W a module over the even Clifford algebra $C\ell^0(V)$. A homogeneous quaternionic manifold (M, Q) is constructed for any $\mathfrak{so}(p, q)$ -equivariant linear map $\Pi: \wedge^2 W \rightarrow V$. If the skew symmetric vector valued bilinear form Π is nondegenerate then (M, Q) is endowed with a canonical pseudo-Riemannian metric g such that (M, Q, g) is a homogeneous quaternionic pseudo-Kähler manifold. If the metric g is positive definite, i.e. a Riemannian metric, then the quaternionic Kähler manifold (M, Q, g) is shown to admit a simply transitive solvable group of automorphisms. In this special case ($p=3$) we recover all the known homogeneous quaternionic Kähler manifolds of negative scalar curvature (Aleksievsky spaces) in a unified and direct way. If $p > 3$ then M does not admit any transitive action of a solvable Lie group and we obtain new families of quaternionic pseudo-Kähler manifolds. Then it is shown that for $Q = 0$ the noncompact quaternionic manifold (M, Q) can be endowed with a Riemannian metric h such that (M, Q, h) is a homogeneous quaternionic Hermitian manifold, which does not admit any transitive solvable group of isometries if $p > 3$. The twistor bundle $Z \rightarrow M$ and the canonical $\mathrm{SO}(3)$ -principal bundle $S \rightarrow M$ associated to the quaternionic manifold (M, Q) are shown to be homogeneous under the automorphism group of the base. More specifically, the twistor space is a homogeneous complex manifold carrying an invariant holomorphic distribution \mathcal{D} of complex codimension one, which is a complex contact structure if and only if Π is nondegenerate. Moreover, an equivariant open holomorphic immersion $Z \rightarrow \bar{Z}$ into a homogeneous complex manifold \bar{Z} of complex algebraic group is constructed....



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