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## Maps between $G$ -manifolds, equivariant up to a homomorphism

We consider maps between compact connected manifolds with a free action of compact Lie groups  $G$  and  $H$ , respectively, which are equivariant up to a homomorphism  $h: G \rightarrow H$ , and prove a formula for the degree of a certain class of such maps. In particular, we consider the degree of a map  $f$  between two free  $G$  manifolds of the same dimension which instead of being equivariant satisfies the property that  $f(gx) = g^r f(x)$  for all  $x$ .

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