Russian Mathematics 2012 vol.56 N1, pages 76-78

Foliations associated with the structure of a manifold over a Grassmann algebra of even degree exterior forms

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Abstract

In this paper we consider a category of manifolds over the algebra of even degree exterior forms on R N. We give examples of suchmanifolds. We explicitly find elements of the pseudogroup of differentiable transformations and demonstrate that on any differentiable manifold there exist affine foliations. © 2012. Allerton Press, Inc.

http://dx.doi.org/10.3103/S1066369X12010112

Keywords

Foliation, Grassmann algebra, Manifold over algebra