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Signature Operator

By Lambert M. Surhone

Betascript Publishing. Taschenbuch. Book Condition: Neu. Neuware - In mathematics, the signature operator is an elliptic differential operator defined on a certain subspace of the space of differential forms on a even dimensional compact Riemannian manifold, whose analytic index is the same as the topological signature of the manifold if the the dimension of the manifold is a multiple of four. It is a instance of a Dirac-type operator. A differential form of degree k , or (differential) k -form, on a smooth manifold M is a smooth section of the k th exterior power of the cotangent bundle of M . The set of all k -forms on M is a vector space commonly denoted $k(M)$. Differential forms provide a better definition for integrands in calculus, such as $(x) dx$ (a '1-form') or $(x, y, z) dx dy dz$ (a '3-form'), but their uses extend far beyond elementary calculus. In fact, the set of all forms on M (denoted (M)) is an algebra, so some (but not all) higher dimensional forms can be obtained from lower dimensional forms via multiplication in this algebra. Moreover, there is map from $k(M)$ to $k+1(M)$ given by a generalization of the differential from elementary calculus. 72 pp. English.



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