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In mathematics, a differentiable manifold (also differential manifold) is a type of manifold that is locally similar enough to a linear space to allow one to do calculus. Any manifold can be described by a collection of charts, also known as an atlas. One may then apply ideas from calculus while working within the individual charts, since each chart lies within a linear space to which the usual rules of calculus apply.

Differentiable manifold - Wikipedia

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In particular, harmonic functions, i.e. harmonic forms of degree zero, are constant on a connected compact manifold. Harmonic forms on a compact Riemannian manifold are invariant with respect to any connected group of isometries of this manifold; for a symmetric space $ M $ the space $ H ^ {p} (M) $ coincides with the space of $ p $- forms which are invariant with respect to the largest connected group of isometries.

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The second half of the book is devoted to more advanced material, including Laplacians and harmonic forms on manifolds, the concepts of vector bundles and fiber bundles, and the theory of characteristic classes. Among the less traditional topics treated in the book is a detailed description of the Chern-Weil theory.

Geometry of Differential Forms

The treatment is based on the concept of current which is closely related to that of distribution in the sense of Laurent Schwartz. A current can in fact be regarded as a differential form whose coefficients are distributions. Chains and (ordinary) differential forms can be identified as currents in the manner indicated below. This is the guiding principle by which the author shows how the homology properties of a manifold are revealed simultaneously through its chains and its differential ...

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