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A differential form on an algebraic variety is the analogue of the concept of a differential form on a differentiable manifold. Let X be an irreducible algebraic variety of dimension d over an algebraically closed field k (cf. Irreducible variety) and let K be its field of rational functions. A differential form of degree r on X is an element of the K -space

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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.

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