



Algebraic Invariants Mathematical Monographs Volume 14

By Leonard Eugene Dickson

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0.2in. AUTHORS PREFACE. This introduction to the classical theory of invariants of algebraic forms is divided into three parts of approximately equal length. Part I treats of linear transformations both from the standpoint of a change of the two points of reference or the triangle of reference used in the definition of the homogeneous coordinates of points in a line or plane, and also from the standpoint of projective geometry. Examples are given of invariants of forms f of low degrees in two or three variables, and the vanishing of an invariant of f is shown to give a geometrical property of the locus $f = 0$, which, on the one hand, is independent of the points of reference or triangle of reference, and, on the other hand, is unchanged by projection. Certain covariants such as Jacobians and Hessians are discussed and their algebraic and geometrical interpretations given; in particular, the use of the Hessian in the solution of a cubic equation and in the discussion of the points of inflection of a plane cubic curve. In brief, beginning with...

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