Isomorphism Invariants for Projective Configurations

I knew of Donald Coxeter’s work on regular polytopes when I was a schoolboy, and this greatly encouraged my love of geometry. I first met him in 1951 when he was external examiner for my doctorate, and I have remained in touch with him ever since. It is therefore with greatest pleasure that I dedicate this paper to him. I believe the subject matter is the sort of geometry that he enjoys.

G. C. Shephard

Abstract. An isomorphism invariant is an expression, defined for a configuration in the projective plane, which takes the same value for all isomorphic configurations. Examples are given as well as a general method (Nehring sequences) for constructing such invariants.