

## Classification of varieties by lattices

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Our aim is to classify particular classes of varieties by lattices. We request that such a class forms a finite distributive lattice. In order to obtain such a classification we use a well-known result by Grätzer and Schmidt, representing finite distributive lattices by the congruence lattice of an isoform lattice with four additional properties. The main idea is to consider the congruence classes instead of the congruences (each congruence class forms a lattice). In particular, it will turn out that the corresponding lattice of congruence classes has an interesting property related to the concept of fuzzy sublattices. We will illustrate our results at the 90-element lattice of involution ring varieties satisfying  $x^7 = x$ .