Emanovský, Petr; **Kühr, Jan**

On special elements and pseudocomplementation in lattices with antitone involutions. (English) Zbl 1398.06007

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Summary: The so-called basic algebras correspond in a natural way to lattices with antitone involutions and hence generalize both MV-algebras and orthomodular lattices. The paper deals with several types of special elements of basic algebras and with pseudocomplemented basic algebras.

MSC:

06D15 Pseudocomplemented lattices
06D35 MV-algebras
06C15 Complemented lattices, orthocomplemented lattices and posets
03G25 Other algebras related to logic

Keywords:

basic algebra; lattice with antitone involutions; distributive element; standard element; neutral element; sharp element; Boolean element; central element; basic algebra with pseudocomplementation

Full Text: DOI

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