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MINIMAL BOUNDED LATTICES WITH AN ANTITONE
INVOLUTION THE COMPLEMENTED ELEMENTS
OF WHICH DO NOT FORM A SUBLATTICE

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Abstract

Bounded lattices with an antitone involution the complemented elements of which do not form a sublattice must contain two complemented elements such that not both their join and their meet are complemented. We distinguish (up to symmetry) eight cases and in each of these cases we present such a lattice of minimal cardinality.

Keywords: bounded lattice, antitone involution, complemented element.

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