Characterizations of pseudocomplemented lattices by excluded 0-sublattices.
(English)
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Summary: In this paper, we characterize pseudocomplemented lattices with (ACC) and (DCC) by using their sublattices. Specifically speaking, we give a necessary and sufficient condition that a lattice with (ACC) and (DCC) is pseudocomplemented by using its nine sublattices. Moreover, we describe the interval pseudocomplementedness of semimodular lattices with (ACC) and (DCC) by their sublattices equivalently.

MSC:
06C10 Semimodular lattices, geometric lattices
06D15 Pseudocomplemented lattices

Keywords: pseudocomplemented lattice; semimodular lattice; interval pseudocomplementedness

Full Text: DOI

References:

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