

Lattice representation of MV-algebras

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It is well known that every MV-algebra is a bounded distributive lattice with respect to the induced order. We will characterize distributive lattices which can be MV-algebras with respect to the certain operations. In particular, we will show that a finite distributive lattice is an MV-algebra if and only if it is a direct product of chains and we derive MV-operations in such a lattice.