

DISJUNCTIVE IDEALS OF ALMOST DISTRIBUTIVE LATTICES

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AND

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Abstract

The concept of disjunctive ideals is introduced in an Almost Distributive Lattice (ADL). It is proved that the set of all disjunctive ideals of an ADL forms a complete lattice. A necessary and sufficient condition is derived for an inverse homomorphic image of a disjunctive ideal of an ADL to be again a disjunctive ideal. Later, the concept of strongly disjunctive ideals is introduced in an ADL and their properties are studied. Some equivalent conditions are established for the set of all strongly disjunctive ideals to convert into a sublattice of the ideal lattice.

Keywords: Almost Distributive Lattice (ADL), normal ADL, disjunctive ideal, strongly disjunctive ideal, normal prime ideal, minimal prime ideal.

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