

QUASI-COMPLEMENTED *BE*-ALGEBRAS

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Abstract

The concept of O-filters is introduced in commutative *BE*-algebras. An equivalent condition is derived for every strong regular filter of a *BE*-algebra to become an O-filter. The concept of quasi-complemented *BE*-algebras is introduced and also characterized these classes of *BE*-algebras in terms of dual annihilators. The concept of strong regular filter is introduced and then quasi-complemented *BE*-algebras and strong *BE*-algebras are characterized in terms of strong regular filters and O-filters.

Keywords: commutative *BE*-algebra, O-filter, quasi-complemented *BE*-algebra, strong *BE*-algebra, strong regular filter.

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