

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.

2010 Mathematics Subject Classification: 03G25.

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Received 21 July 2020
Revised 20 August 2020
Accepted 20 August 2020