

Permeable values and energetic sets in BCK/BCI -algebras

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Abstract: The notions of $(\in, \in \vee q)$ -permeable S-value and $(\in, \in \vee q)$ -permeable I-value are introduced, and related properties are investigated. Relations among $(\in, \in \vee q)$ -fuzzy subalgebra, $(\in, \in \vee q)$ -fuzzy ideal, (strong) lower and (strong) upper level sets, $(\in, \in \vee q)$ -permeable S-value, $(\in, \in \vee q)$ -permeable I-value, S-energetic set, I-energetic set, right stable set and right vanished set are discussed.

Keywords:

$(\in, \in \vee q)$ -permeable S-value; $(\in, \in \vee q)$ -permeable I-value; S-energetic set; I-energetic set.

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