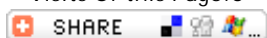




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Research Details :

Research Title : *On annihilators of BCK-algebras* *On annihilators of BCK-algebras*

Descriptipn : Let X be a commutative BCK-algebra and A an ideal of X . To any subset B of X we associate the set $(A : B) = \{x \text{ is an element of } x \text{ Lambda } B \text{ subset of or equal to } A\}$, where $x \text{ Lambda } B = \{x \text{ Lambda } y : y \text{ is an element of } B\}$. We show that $(A : B)$ is an ideal of X and define it as the generalized annihilator of B (relative to A). If $A = \{0\}$, then $(A : B)$ coincides with the usual annihilator of B (see for instance [4]). These and some other properties of generalized annihilators are contained in Section 3 of this paper. Section 4 contains some applications of generalized annihilators in quotient BCK-algebras and in the theory of prime ideals of BCK-algebras. Using the technique of generalized annihilators, we show that the quotient BCK-algebra of an involutory BCK-algebra is again an involutory BCK-algebra. We also obtain a characterization of prime ideals: A categorical ideal A is prime if and only if $(A : B) = A$ (see Proposition 4.9). Section 2 contains some preliminary material for the development of our results.

Research Type : Article

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