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QUOTIENT HYPER PSEUDO BCK-ALGEBRAS

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Abstract

In this paper, we first investigate some properties of the hyper pseudo BCK-algebras. Then we define the concepts of strong and reflexive hyper pseudo BCK- ideals and establish some relationships among them and the other types of hyper pseudo BCK- ideals. Also, we introduce the notion of regular congruence relation on hyper pseudo BCK-algebras and investigate some related properties. By using this relation, we construct the quotient hyper pseudo BCK-algebra and give some related results.

Keywords: hyper pseudo BCK-algebra, normal hyper pseudo BCK-ideal, quotient hyper pseudo BCK-algebra.

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