

Abstract

The concept of m -polar fuzzy positive implicative ideals in BCK-algebras is introduced and related properties are investigated. Characterizations of m -polar fuzzy positive implicative ideals are considered. Relations between m -polar fuzzy ideals and m -polar fuzzy positive implicative ideals are discussed. This thesis focuses on combining the concepts of m -polar fuzzy sets and m -polar fuzzy points to introduce a new notion called m -polar (α, β) -fuzzy positive implicative ideals in BCK-algebras. Moreover, we define m -polar $(\in, \in \vee q)$ -fuzzy positive implicative ideals and explore some important properties.