

ON L -FUZZY MULTIPLICATION MODULES

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Abstract

Let L be a complete lattice. In a manner analogous to a commutative ring, we introduce and investigate the L -fuzzy multiplication modules over a commutative ring with non-zero identity. The basic properties of the prime L -fuzzy submodules of L -fuzzy multiplication modules are characterized.

Keywords: L -fuzzy multiplication modules, L -fuzzy Noetherian modules, L -fuzzy radical, generalized maximal L -fuzzy submodules.

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