

INTUITIONISTIC FUZZY SUBMODULES WITH THRESHOLDS (α, β) OF MODULES

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Abstract

In this paper, we apply the concept of intuitionistic fuzzy sets to modules. The notion of intuitionistic fuzzy submodules with thresholds (α, β) of module is introduced and some related properties are investigated. Also, the characterizations of intuitionistic fuzzy submodules with thresholds (α, β) are obtained. Finally , we show that the set of all intuitionistic fuzzy submodules with thresholds (α, β) of a module forms a modular lattice.

Key Words : *Modules, Intuitionistic fuzzy set (IFS), Intuitionistic fuzzy submodule (IFSM).*

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