

**ON ψ -CLOSED FUZZY SETS, FUZZY ψ - OPEN MAPS
AND FUZZY ψ - IRRESOLUTE MAPS IN FUZZY TOPOLOGICAL
SPACES**

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Abstract

In this paper, the class of ψ - closed fuzzy sets are introduced. This class properly fits between the class of closed fuzzy sets and the class of g_s - closed fuzzy sets in fuzzy topological spaces. Further, the concept of fuzzy ψ - continuous, fuzzy ψ - irresolute mappings, fuzzy ψ -closed maps, fuzzy ψ - open maps and fuzzy ψ - homeomorphism in fuzzy topological spaces are also introduced, studied and some of their properties are obtained.

2000 Subject Classification: 54A40

Keywords : ψ -closed fuzzy sets, $f\psi$ - continuous, $f\psi$ - irresolute, $f\psi$ - open, $f\psi$ - closed mappings and $f\psi$ - homeomorphism.