

FUZZY SUBGROUPS

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This dissertation describes and studies fuzzy subgroups. Fuzzy normal subgroups are defined and fuzzy generators of a fuzzy abelian group are described. Several interesting properties in this direction are studied.

This dissertation has three chapters. Chapter one gives the definition of fuzzy subset and describes the basic properties associated with them. In chapter two fuzzy subgroups are defined and several interesting results in that direction are proved. The final chapter gives the proof of theorems related with the fuzzy generators of an abelian group and the properties enjoyed by the set of generators.