



# Generalized fuzzy K-algebras

By Muhammad Akram

VDM Verlag Aug 2010, 2010. Taschenbuch. Book Condition: Neu. 221x154x24 mm. This item is printed on demand - Print on Demand Neuware - A new kind of logical algebra, known as K-algebra, was introduced by the authors in 2003 and published in 2005. A K-algebra was built on a group  $G$  by adjoining the induced binary operation on  $G$ . The group  $G$  is particularly of the type in which each non-identity element is not of order 2. This algebraic structure is, in general, non-commutative and non-associative with right identity element. In 2005, the authors introduced fuzzy K-algebras. They then developed fuzzy K-algebras with other researchers worldwide. In this monograph, theory of K-algebras, K-homomorphisms and subclasses of K-algebras have been presented. Then the concepts and results of K-algebras have been broadened to the fuzzy setting frames by applying Zadeh's fuzzy set theory and its generalizations, namely, interval-valued fuzzy sets, intuitionistic fuzzy sets, interval-valued intuitionistic fuzzy sets, bipolar fuzzy sets and vague sets. Finally, some open-ended problems and applications of K-algebras are stated. 288 pp. Englisch.



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