

<<基于AFS结构和AFS代数的模糊>>

图书基本信息

书名：<<基于AFS结构和AFS代数的模糊理论>>

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内容概要

《基于AFS结构和AFS代数的模糊理论(英文版)》内容简介：It is well known that, "fuzziness" is one of the important characteristics of human cognizance and thinking. And fuzzy phenomena exist throughout nature and extensively within human society. The theory of fuzzy sets and systems has been rapidly developed and applied in many fields since it was proposed by professor L.A. Zadeh, an expert of control theory, 1965. Many mathematicians, engineers and technicians have achieved many important results by using and applying fuzzy theory. This book is a systematic introduction to the AFS theory, which was first studied on the eleven research papers ([12] ~ [22]) published in the USA, North-holland and China by the author between 1994 and 1998. In these papers some new mathematical objects, such as AFS structure, AFS algebras and cognitive field were proposed. Using regular mathematical language, a new axiomatic system based on AFS structure and AFS algebras has been established. In this system, membership functions are described by strict and uniform mathematical methods. It is proved that each fuzzy concept can be represented by an element of the AFS algebras in some AFS structure and AFS algebras are mathematical abstractions of the compositions and the operators of concepts. The topological molecular lattice structures and topological structures are established on AFS structures, thus the relations between concepts and some other variable properties of concepts are described by modern mathematical language, using such mathematical tools as topological molecular lattices and topology. Thus a kind of the abstractions of human cognitive activities is obtained through the AFS theory.

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