

# Introduction To Fuzzy Arithmetic Koins

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Comprising papers presented at an international symposium on fuzzy engineering technology, this volume provides information on the current state-of-the-art in the field of fuzzy theories and applications, and their importance in the areas of industry, medicine, artificial intelligence, management, socio-economics, ecology, agriculture, behavioural science and education. The results of recent research of LIFE (Laboratory for International Fuzzy Engineering Research) are also included.

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First book that provides both theory and real world applications of fuzzy arithmetic in a comprehensive style. Provides a well-structured compendium that offers both a deeper knowledge about the theory of fuzzy arithmetic and an extensive view on its applications in the engineering sciences making it useful for graduate courses, researchers and engineers. Presents the basic definitions and fundamental principles of fuzzy arithmetic, derived from fuzzy set theory. Summarizes the state-of-the-art stage of fuzzy arithmetic, offers a comprehensive composition of different approaches including their benefits and drawbacks, and finally, and presents a completely new methodology of implementation of fuzzy arithmetic with particular emphasis on its subsequent application to real-world systems. Concentrates on the application of fuzzy arithmetic to the simulation, analysis and identification of systems with uncertain model parameters, as they appear in various disciplines of engineering science. Focuses on mechanical engineering, geotechnical engineering, biomedical engineering, and control engineering.

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Applied Fuzzy ArithmeticAn Introduction with Engineering ApplicationsSpringer Science & Business Media

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The decision to invest in oil field development is an extremely complex problem, even in the absence of uncertainty, due to the great number of technological alternatives that may be used, to the dynamic complexity of oil reservoirs - which involves mul- phase flows (oil, gas and water) in porous media with phase change, and to the c- plicated combinatorial optimization problem of choosing the optimal oil well network, that is, choosing the number and types of wells (horizontal, vertical, directional, m- tilateral) required for draining oil from a field with a view to maximizing its economic value. This problem becomes even more difficult when technical uncertainty and e- nomic uncertainty are considered. The former are uncertainties regarding the existence, volume and quality of a reservoir and may encourage an investment in information before the field is developed, in order to reduce these uncertainties and thus optimize the heavy investments required for developing the reservoir. The economic or market uncertainties are associated with the general movements of the economy, such as oil prices, gas demand, exchange rates, etc. , and may lead decision-makers to defer - vestments and wait for better market conditions. Choosing the optimal investment moment under uncertainty

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is a complex problem which traditionally involves dynamic programming tools and other techniques that are used by the real options theory.

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Great progresses have been made in the application of fuzzy set theory and fuzzy logic. Most remarkable area of application is 'fuzzy control', where fuzzy logic was first applied to plant control systems and its use is expanding to consumer products. Most of fuzzy control systems uses fuzzy inference with max-min or max-product composition, similar to the algorithm that first used by Mamdani in 1970s. Some algorithms are developed to refine fuzzy controls systems but the main part of algorithm stays the same. Triggered by the success of fuzzy control systems, other ways of applying fuzzy set theory are also investigated. They are usually referred to as 'fuzzy expert systems', and their purpose are to combine the idea of fuzzy theory with AI based approach toward knowledge processing. These approaches can be more generally viewed as 'fuzzy information processing', that is to bring fuzzy idea into information processing systems.

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What is fuzzy logic?--a system of concepts and methods for exploring modes of reasoning that are approximate rather than exact. While the engineering community has appreciated the advances in understanding using fuzzy logic for quite some time, fuzzy logic's impact in non-engineering disciplines is only now being recognized. The authors of Fuzzy Logic in Geology attend to this growing interest in the subject and introduce the use of fuzzy set theory in a style geoscientists can understand. This is followed by individual chapters on topics relevant to earth scientists: sediment modeling, fracture detection, reservoir characterization, clustering in geophysical data analysis, ground water movement, and time series analysis. George Klir is the Distinguished Professor of Systems Science and Director of the Center for Intelligent Systems, Fellow of the IEEE and IFSA, editor of nine volumes, editorial board member of 18 journals, and author or co-author of 16 books Foreword by the inventor of fuzzy logic-- Professor Lotfi Zadeh

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