



Solution of Fuzzy Linear and Non-linear Equations

By Saha, Goutam Kumar / Shirin, Shapla

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Concepts of Negative Fuzzy Numbers Using In Linear Fuzzy Equations | Fuzzy sets are sets whose elements have degrees of membership. Fuzzy set theory was formalized by Professor Lotfi Zadeh at the University of California in 1965 as an extension of the classical notion of set. In classical set theory, the membership of elements in a set is assessed in binary terms according to a bivalent condition an element either belongs or does not belong to the set. Fuzzy sets generalize classical sets are special cases of the membership functions of fuzzy sets, if the latter only take values 0 or 1. Classical bivalent sets are in fuzzy set theory usually called crisp sets. On the other hand fuzzy set is more specified than crisp set. It can take a decision between membership grade 0 to 1, i.e. unit interval $[0, 1]$. This book attempts to fill the needs of the algorithms of Newton's method, Fixed-Point Iteration method and Bisection method which are used to solve fuzzy non-linear equations for the linear fuzzy real number. The procedures to obtain solutions of different types of fuzzy linear equations have also been discussed....



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