

Optimal Fuzzy Inventory Policies via Fuzzy Geometric Programming

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Abstract

In this paper, we establish and analyze two economic order quantities (EOQ) that in this model, some parameters are fuzzy variables. This note is based on inventory models under total cost minimization and profit maximization that have solved via fuzzy geometric programming (FGP) techniques. Through FGP and by zadeh's extension principle, two main programs are transformed to a pair of two-level of mathematical programs. The upper bound and lower bound of the objective value are obtained by solving the pair of geometric programs.

Key words

Inventory, fuzzy Geometric programming, EOQ