

عنوان مقاله:

A fuzzy mathematical optimization model for multi-level, multi- period supply chain with considering demand satisfaction

محل انتشار:

سیزدهمین کنفراُنس بین المللی پیشرفت های اخیر در مدیریت و مهندسی صنایع (سال: 1401)

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خلاصه مقاله:

Due to the increasing level of communication around the world, increasing of demand diversification for enterprises, maintaining customers and expanding the competitive environment among manufacturing and service organizations the importance of designing is optimal and economic supply chain network more than ever has been considered and chain management is one of the important research areas that has attracted the attention of enterprise managers. In a forward supply chain products and services are interconnected from material suppliers to manufacturers, assemblers and retailers and an effective and efficient supply chain design helps countries and companies to cope better with intense competitive pressures. In today's world, enterprises have to handle the growing markets and the increasing customer expectations to survive in an ever-increasing competitive environment. This paper proposes a forward network multi-period and multi-level includes supplier, centers parts warehouse, manufacturing, distribution and centers retailer taking into account the demand parameter in the fuzzy environment with the objective is to maximize the profit for the organization and satisfy the demand Simultaneously. This model is solving by mixed-integer linear programming and using GAMS software and CPLEX solver. The results of solving the model through a numerical example show that increasing the uncertainty in the demand parameter reduces the optimal value of the ...objective function

کلمات کلیدی:

Supply chain, Demand satisfaction, Fuzzy, Network design, Mixed-integer linear programming

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