

عنوان مقاله:

Benders Decomposition Algorithm for a Build-to-Order Supply Chain Problem Under Uncertainty

محل انتشار:

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خلاصه مقاله:

Since customization increases, build-to-order systems have received greater attention from researchers and practitioners. This paper presents a new build-to-order supply chain model with multiple objectives that minimize the total cost and lead time and, also, maximize the quality level. The model is first formulated in a deterministic condition and, then, the uncertainty of the cost and quality by the scenario-based approach to solving a robust optimization was investigated. The return policy and outsourcing are the new issues in a build-to-order supply chain considering the cost and inventory. A Benders decomposition algorithm is used to solve and validate the model. Finally, the related results are analyzed and compared with the results obtained by CPLEX for deterministic and scenario-based models

کلمات کلیدی:

Build-to-order, Multi-objective supply chain, Benders decomposition

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