

عنوان مقاله:

A complex integrated forward-reverse logistics in supply chain network design considering capacity expansion

محل انتشار:

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خلاصه مقاله:

In the last decade, attention to the integrated closed-loop supply chain network because of their economic benefits and environmental legislation, increasingly has attracted. In this paper, a multi-period multi echelon and multi-product integrated forward-reverse logistics network model is presented. The proposed model consists of two echelons in the forward direction (plants and distribution centers) and three echelons in the reverse direction (collection, disposal and recovery centers). Because of the economic benefits, the production and recovery and also distribution and collection centers are common in forward and reverse direction. Our model also covers different transportation modes, discount issue and Possibility of making a particular product in a particular plant, not all products in all plants So that fewer models in the literature have dealt with. For increasing flexibility, we consider capacity expansion for the common production and recovery centers. The computational results show the capability of proposed model in determining .location of facilities as a strategic decision in integrated closed-loop supply chain network

کلمات کلیدی:

logistics, supply chain network, closed-loop logistic, capacity expansion

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