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Abstract
In the environment of global keen competition, the decisions of enterprises are not only interests of seeking the independent individual again, but seek to the maximization of all members'interests of the supply chain. Through just-in-time purchasing (JIT purchasing), the buyer and supplier integrate the purchasing, manufacturing, and delivery activities to reach synchronous logistics. The logistics managers must determine the symphonious policies of purchasing, product and transportation, and through the long purchasing contract to transport the high-quality products from supplier to buyer, and shorten leading time of buyer and reduce mutual stock level at a minimum total joint cost.
This research conducted on JIT purchasing in which a single buyer and a single supplier of a product system. To reach the goal of minimum total joint cost, build the mathematics way to think the number of transportation and lot-splitting under the transportation cost belong to. Finally, we adapted numerical examples to explain the results and use the sensitivity analysis to verify the effects of model parameters on cost model.
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