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Abstract
In many business management strategies, the inventory management and decision-making have been the very important of the business administration. The object of the inventory management is satisfactory to customer’s demand with minimum inventory cost and obtains the greatest business economic benefits. The model inputs the concept of quality level to reach the greater quality benefit with the lowest improvable quality cost and to try to probe the final inventory strategy, in order to make the inventory total cost is lowest.
The purpose of this research is to propose inventory systems of manufacturers, under the circumstances that the demand of the products is distributed fixedly and averagely and not allowed the situation in short supply, to consider under transporting equal batch and unequal batch, probe shipment and quality have influence on inventory model, regarding to setup cost、carrying cost、shipment cost and bad product cost etc. as the decision parameter of the inventory model in the article, to derive the situation the inventory total cost is a minimum. Further propose the quality level is a decision parameter of inventory mathematics model, to derive the situation that the inventory total cost is a minimum. And realize every parameter in influence of the inventory model through sensitivity analysis.
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