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Abstract
In recent years, the management of JIT production system which has risen the competitiveness and made more profits developed by entrepreneur. It is successful to integrate both of the buyers and sellers. The traditional literatures which related to Integrated Inventory Model were less to concern the problems of products' quality and usually assumed that all the products produced by sellers have perfect qualities. However, there are always some incomplete and defective items occurred in real situation. It will decrease consumer satisfaction and have a great effect upon the future of entrepreneur if sellers do not examine the products before selling to buyers. Therefore, this research will use the method of rework to cope with defective items. There may cause some cost by repair. We considered the Integrated Inventory Model between single buyer and single seller of quantity's discount and defective items' rework in chapter 3 of this research, and used the method of multiple delivery lot size to deliver the products to buyers. It constructed an Integrated Inventory Model which used quantitative delivering, frequency of delivery, leading time and backordering discounts as policy-making variables. When buyers allowed sellers to all backorder, there will be a shortage to seller, and consider the relationship between leading time and delivery lot size under the situation. Not only did the seller provide backordering discount, but also the buyers allowed backordering in chapter 4. Using the optimal theorem to form an algorithm individually and proved by the computational example to find out the most appropriate solution.
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