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Abstract
The lead time and products quality are essential conditions of struggle for existence of enterprises now. In recent years, started the JIT production management system, business both sides penetrates the close cooperation, the small batch shipped the high quality product, and shortens leading time and reduces the level of stocks, raise enterprise's whole competitiveness and profit effectively. The buyer and the vendor subscribe under the cooperation decides the suitable goods in stock strategy to let the goods in stock total cost optimization, for enterprise competitive advantage key.
The purpose of this research is to develop the integrated inventory models for minimizing the total joint annual costs incurred by the single-vendor and the single-buyer. The deliveries quantity, the number of deliveries, process quality, reorder point and the lead time are the variable decisions most suitable production goods in stock strategy. The algorithms of finding an optimal solution are developed, and numerical examples are included to illustrate.
Keywords：Integrated inventory models, Lead time, Products quality
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