论文

一类供应商管理库存供应链协调策略研究

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The Coordination Strategy Analysis of a Kind of Supply Chain on VMI

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摘要 对有确定需求、有初始库存和库存短缺的一种畅销商品,建立了供应商管理库存的供应链模型.然后,分别分析分散式、集中式和VMI三种供应链模式下的库存补充数量最优解及各方收益情况,得到VMI的实施将可能造成供应商收益下降.再运用委托-代理理论分别讨论了信息对称和信息不对称时的VMI数量折扣契约设计问题.最后,给出算例说明了,此协调策略有助于VMI的实施.

关键词：   供应商管理库存   协调策略   数量折扣契约

Abstract： For a kind of salable goods,supply chain model of vendor management inventory(VMI)is established,on the basis of definite demand and a ready source of initial stock,but in short supply now.Then,this paper firstly deduces the optimum inventory replenishment quantities and profit function of each member under three supply chain contracts:non-coordination,integrated control,and VMI,and the implementation of VMI is proved that the profit of vendor may decrease.After that,VMI quantity discounts contract under symmetric and asymmetric information is designed by principal-agent theory.Finally,a numeric exapmple illustrates this coordination strategy is conductive in the implementation of VMI.

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