论文

INVENTORY ANALYSIS OF AN UNRELIABLE PRODUCTION-INVENTORY SYSTEM

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摘要 This paper deals with a production-inventory system in which there are amachine consisting of multiple unreliabl units and a storage facility of fixed capacity. The product produced is stored in the storage facility. The demand process for product is acompound Poisson process. We assume that the demand-size distributions are arbitrary, and the unsatisfied demand is backlogged rather than lost. Our main results are to prove nexistence theorem on stationary distribution of the slack capacity and to derive an expression of its stationary distribution function.

关键词 <u>Production, inventory, unreliable machin</u>

分类号

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Key words Production inventory unreliable machine

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