

Inventory System with Two Ordering Levels and Rest Time to the Server

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Abstract

We study a two ordering level inventory system in which the server takes rest when the level of the inventory is zero. The demands are assumed to occur for one unit at a time. The inter-occurrence times between successive demands, the lead times at two different levels and the rest times are assumed to follow general distributions which are mutually independent. Inventory level probabilities are obtained using renewal and convolution techniques.

Keywords: Communication Networks, System Reliability, System Availability, NP-Complete Problems.