

Abstract Details

Title: A Deterministic Inventory Replenishment Problem for Deteriorating Items with an Exponential Declining Demand and Shortages for the Finite Time Horizon

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Abstract: An inventory model is developed for deteriorating items with infinite rate of replenishment and exponentially decreasing demand rate over a finite time horizon. Shortages are allowed and backlogged. A numerical example demonstrates the effectiveness of the proposed method.

Keywords: Inventory replenishment, exponential declining demand, economic order quantity (EOQ).