A DETERIORATING INVENTORY MODEL WITH LINEAR, EXPONENTIAL DEMAND WITH SHORTAGE

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ABSTRACT

We study a two type of demand situations inventory model for deteriorating items. First type the demand pattern follows linearly increase with time and secondly it follow exponential increase with time and finally shortage are allowed. Numerical example is used to illustrate the developed model. Sensitivity analysis of the optimal solution with respect to major parameter is carried out.

KEYWORDS: *Inventory, Deterioration, Demand, Shortage*