

AN EOQ INVENTORY MODEL WITH PRICE DEPENDENT DEMAND, WEIBULL DISTRIBUTION DETERIORATION WITH SHORTAGE AND TIME RELATIVE HOLDING COST

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ABSTRACT

An EOQ inventory model is developed including items with price dependent demand and two parameters weibull distribution deterioration and time relative holding cost. Shortage are allowed and fully back logged. The results have been illustrated with the help of Numerical example by using Matlab 7.1. The sensitivity analysis of the solution has been done with the changes to the value of the parameter associated with the model.

KEY WORDS: Inventory, weibull distribution deterioration item, shortage, price dependent demand, time relative holding cost.

يعرض هذا البحث نموذج (EOQ) للجرد لنموذج تم إدراج سعر المواد متعلقة بالطلب weibul وسيطان التوزيع الخسارة وكذلك التكلفة النسبية. العجز مسموح به و مدعوم النتائج عرضت بمساعدة أمثلة عددية بإستعمال (MATLAB 7.1) وتحليل دقيق للحلول تم ذلك بتغيير قيم الوسائط المستعملة في النموذج.

