Abstract

This paper deals with an inflation induced stock dependent demand inventory model with permissible delay in payments. In real life situations, some products maintain freshness and quality for some time. This inventory model is developed for non-instantaneous deteriorating items. The purpose of this paper is to obtain the optimal policies for maximizing the total profits. Numerical examples are provided to demonstrate the developed model and also to provide the solution algorithm.

**Index Terms**

Computer Science

Information Sciences

**Keywords**

Inflation  Inventory  Non-instantaneous deterioration  Permissible delay in payments  Purchasing cost  Sales revenue cost

Stock-dependent demand.