



International Journal of Systems Science >

Volume 37, 2006 - [Issue 1](#)

245 | 29 | 0
Views | CrossRef citations to date | Altmetric

Original Articles

Inventory model for deteriorating items and time value of money for a finite time horizon under the permissible delay in payments

N. H. Shah

Pages 9-15 | Received 15 Apr 2002, Accepted 30 Sep 2005, Published online: 24 Feb 2007

Cite this article <https://doi.org/10.1080/00207720500404334>

Sample our
Mathematics & Statistics
Journals



>> [Sign in here](#) to start your access
to the latest two volumes for 14 days

Full Article

Figures & data

References

Citations

Metrics

Reprints & Permissions

Read this article

Share

Abstract

In this article, an inventory model is derived by assuming constant rate of deterioration of units in an inventory, time value of money under the conditions of permissible delay in payments. The optimal replenishments and fraction of cycle time are decision variables to minimize the present value of inventory cost over a finite planning horizon. The sensitivity analysis is carried out by a numerical example.

Keywords:

Economic order quantity (EOQ)

Deterioration

Time value of money

Permissible delay in payments

Related Research Data

Joint price and lot size determination under conditions of permissible delay in payments and quantity discounts for freight cost

Source: European Journal of Operational Research

An ordering policy for deteriorating items with allowable shortage and permissible delay in payment

Source: Journal of the Operational Research Society

Inventory Control and Trade Credit Revisited

Source: Journal of the Operational Research Society

Economic Order Quantity under Conditions of Permissible Delay in Payments

Source: Journal of the Operational Research Society

A discrete-in-time probabilistic inventory model for deteriorating items under conditions of permissible delay in payments

Source: International Journal of Systems Science

Supply chain models for perishable products under inflation and permissible delay in payment

Related research

People also read

Recommended articles

Cited by
29

Information for

Authors

R&D professionals

Editors

Librarians

Societies

Opportunities

Reprints and e-prints

Advertising solutions

Accelerated publication

Corporate access solutions

Open access

Overview

Open journals

Open Select

Dove Medical Press

F1000Research

Help and information

Help and contact

Newsroom

All journals

Books

Keep up to date

Register to receive personalised research and resources by email

 Sign me up

