

631 | 31 | 0
Views | CrossRef citations to date | Altmetric

Original Articles

Economic production order quantity and quality

Angus Jeang

Pages 1753-1783 | Received 01 Mar 2009, Accepted 10 Dec 2009, Published online: 15 Mar 2010

Cite this article <https://doi.org/10.1080/00207540903555528>

Sample our
Engineering & Technology
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

We Care About Your Privacy

We and our 855 partners store and access personal data, like browsing data or unique identifiers, on your device. Selecting "I Accept" enables tracking technologies to support the purposes shown under "we and our partners process data to provide," whereas selecting "Reject All" or withdrawing your consent will disable them. If trackers are disabled, some content and ads you see may not be as relevant to you. You can resurface this menu to change your choices or withdraw consent at any time by clicking the ["privacy preferences"] link on the bottom of the webpage [or the floating icon on the bottom-left of the webpage, if applicable]. Your choices will have effect within our Website. For more details, refer to our Privacy Policy. [Here](#)

We and our partners process data to provide:

I Accept

Reject All

Show Purpose



simultaneously to minimise the average total cost for a cycle time. An example is presented to demonstrate the proposed approach.

Keywords: initial setting process tolerance production order quantity quality cost deterioration process optimisation

Acknowledgments

This research was carried out in the Design, Quality, and Productivity Laboratory (DQPL) at the Department of Industrial Engineering and Systems Management at Feng Chia University, Taichung, Taiwan, Republic of China. I would like to thank my research assistant, Mr. Yen-Pin Pai, graduate student in the I.E. Department.

Related Research Data

Optimal Control of a Linear Trend Process with Quadratic Loss

Source: Informa UK Limited

Comb

Source

An op

Source

Optim

Source

Econ

limits

So

T

parts

Source

Integ

uncer

Source

An op

short

Source: Elsevier BV



ification

chined

er

ble

An optimal production run for an imperfect production process with allowable shortages and time-varying fraction defective rate

Source: Springer Science and Business Media LLC

Optimum process mean setting with specified average outgoing quality limit protection for variable single sampling plan

Source: Informa UK Limited

Optimal production model with quality sensitive market demand, partial backlogging and permissible delay in payment

Source: EDP Sciences

Economic production quantity model for items with imperfect quality

Source: Elsevier BV

Economic specification limits and process mean settings by considering unequal target value and specification center

Source: Informa UK Limited

Production economics and process quality: A Taguchi perspective

Source: Elsevier BV

Optimal tool replacement with nondecreasing tool wear

Source: Informa UK Limited

Reliable tool replacement policy for quality and cost

Source: Elsevier BV

Process mean, process tolerance, and use time determination for product life application under deteriorating process

Source

Econ

Source

Modif

produ

Source

Modif

Source

A

So

Econ

capa

Source

Optin

Source

Optin

trade

Source: Informa UK Limited



forming

product

process


ss

RMS)

two-part

Optimal manufacturing target setting by considering process adjustment cost and quality loss

Source: Informa UK Limited

Linking provided by  ScholarSplorer

Related research

People also read

Recommended articles

Cited by
31

[An Economic Order Quantity Model with Demand-Dependent Unit Production Cost and Imperfect Production Processes >](#)

T. C. E. CHENG

IIE Transactions

Published online: 31 May 2007

[Economic production-ordering quantity models with limited production capacity >](#)

M. A. Hariga

Production Planning & Control

Published online: 15 Nov 2010

Econom
backro

ortages

Lie-Ferr

Internati

Publishe



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

- 
- 
- 
- 
- 

Copyright

Accessib

Registered
5 Howick Pl

or & Francis Group
orma business

