

286 Views | 23 CrossRef citations to date | 0 Altmetric

Original Articles

# Optimal economic production quantity policy for randomly failing process with minimal repair, backorder and preventive maintenance

Gwo-Liang Liao 

Pages 1602-1612 | Received 03 Jan 2011, Accepted 04 Dec 2011, Published online: 21 Feb 2012

 Cite this article  <https://doi.org/10.1080/00207721.2012.659702>

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

## We Care About Your Privacy

We and our 845 partners store and/or access information on a device, such as unique IDs in cookies to process personal data. You may accept or manage your choices by clicking below, including your right to object where legitimate interest is used, or at any time in the privacy policy page. These choices will be signaled to our partners and will not affect browsing data. [Privacy Policy](#)

We and our partners process data to provide:

Use precise geolocation data. Actively scan device characteristics for identification. Store and/or access information on a device. Personalised advertising and content, advertising and content measurement, audience research and services development.

List of Partners (vendors)

 I Accept

Essential Only

Show Purpose

ability, repair cost and defect number on total costs and production period. This study finds that enhancing maintenance ability reduces production related costs. The product system can be produced more efficiently using a PM program.

Keywords: production imperfect maintenance learning effect optimum backorder

## Acknowledgements

The author is pleased to thank the anonymous referees, and the editors, for their valuable comments and suggestions, which significantly improved the clarity of this paper. This research was supported by the National Science Council of Republic of China, under Grant No. NSC 99-2410-H-143-009-MY2.

## Related research

People also read

Recommended articles

Cited by  
23



## 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 © 2024 Informa UK Limited [Privacy policy](#) [Cookies](#) [Terms & conditions](#)



Taylor & Francis Group  
an informa business

Accessibility



Registered  
5 Howick Place

