

239 Views | 28 CrossRef citations to date | 0 Altmetric

Original Articles

# Backorder minimization in multiproduct assemble-to-order systems

Yingdong Lu, Jing-Sheng Song & David D. Yao

Pages 763-774 | Received 01 Nov 2002, Accepted 01 Dec 2004, Published online: 23 Feb 2007

Cite this article <https://doi.org/10.1080/07408170590961139>

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

## Abstract

We consider a multiproduct assemble-to-order system. Components are built to stock with inventory controlled by base-stock rules, but the final products are assembled to order. Customer orders are received and processed sequentially. Components are built to stock for replacement parts. The final products are assembled to order. The average of the backorder cost is minimized. The average of the backorder cost is minimized for the entire system. The average of the backorder cost is minimized for the entire system. The average of the backorder cost is minimized for the entire system.

### 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



leadtimes  
allocation of  
average of  
proximations  
problems, and  
nations.  
nt  
icle >


# Notes

Contributed by the Supply Chains/Production-Inventory Systems Department

## Related Research Data

Fair no-unnecessary-waiting-time-FCFS allocation rule in multi-item inventory systems

Source: Taylor & Francis

Linking provided by  ScholarSplorer

## Related research

People also read

Recommended articles

Cited by  
28

[Optimal control policies for assemble-to-order systems with commitment lead time >](#)

Taher Ahmadi et al.

IISE Transactions

Published online: 10 Jun 2019



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



✕