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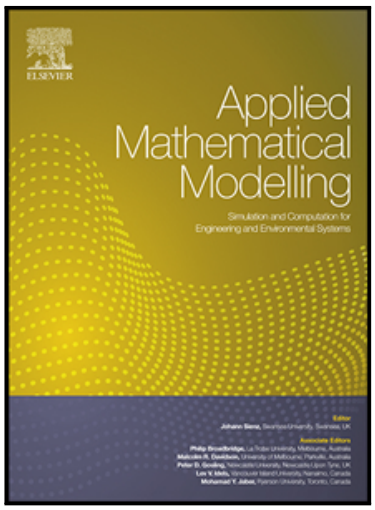

Multi-echelon supply chain design considering unreliable facilities with facility hardening possibility

Mohammad. Rohaninejad , Rashed. Sahraeian ,
Reza Tavakkoli-Moghaddam

PII: S0307-904X(18)30246-4
DOI: 10.1016/j.apm.2018.06.001
Reference: APM 12300

To appear in: *Applied Mathematical Modelling*

Received date: 20 July 2017
Revised date: 18 May 2018
Accepted date: 4 June 2018

Please cite this article as: Mohammad. Rohaninejad , Rashed. Sahraeian , Reza Tavakkoli-Moghaddam , Multi-echelon supply chain design considering unreliable facilities with facility hardening possibility, *Applied Mathematical Modelling* (2018), doi: 10.1016/j.apm.2018.06.001

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Highlights

- A multi-echelon reliable capacitated facility location problem is investigated.
- Facilities can be "hardened" by more investment.
- A new scenario-based formulation is proposed.
- Several efficient approximation algorithms for large-sized problems are proposed.
- The computational results confirm the quality of the proposed algorithms.

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