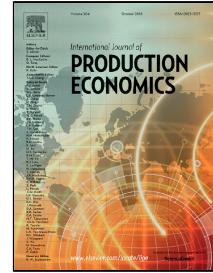


# Accepted Manuscript

Single-Vendor Multi-Buyer Supply Chain Coordination with Stochastic Demand

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PII: S0925-5273(18)30394-3

DOI: 10.1016/j.ijpe.2018.09.024

Reference: PROECO 7178

To appear in: *International Journal of Production Economics*

Received Date: 10 February 2018

Accepted Date: 18 September 2018

Please cite this article as: Chi Kin Chan, Fei Fang, André Langevin, Single-Vendor Multi-Buyer Supply Chain Coordination with Stochastic Demand, *International Journal of Production Economics* (2018), doi: 10.1016/j.ijpe.2018.09.024

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**Title:**

Single-Vendor Multi-Buyer Supply Chain Coordination with Stochastic Demand

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Highlights (to be submitted in a separate file with file name 'Highlights' in the online submission system)  
**(3-5 bullet points) (85 characters max or max 20 words per bullet point)**

- We propose a synchronized cycles coordinated replenishment system with stochastic demand for a single buyer and multiple buyers.
- An algorithm is developed for solving the stochastic model.
- The proposed stochastic synchronized cycles model performs better than the stochastic decentralized decision making and the stochastic common cycle model.
- We use trade-off curves to further compare the stochastic models in a way the estimation of stock-out cost is avoided.

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