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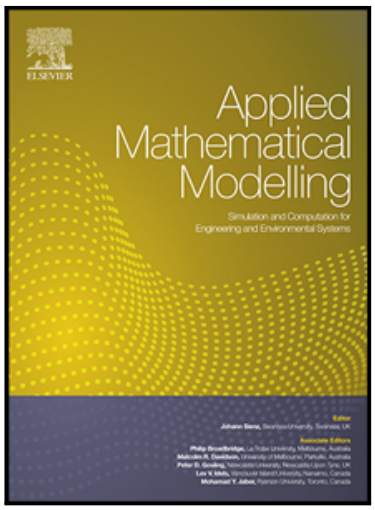

Economic Production Quantity with the Presence of Imperfect Quality and Random Machine Breakdown and Repair Based on the Artificial Bee Colony Heuristic

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Highlights

- An imperfect production system has a random time to failure and a random time to repair
- Shortages are permitted during the machine repair
- The model determines the optimal production lot size
- The lot interruption-resumption strategy leads to smaller lot sizes
- The lot size reacts significantly to changes in the machine failure rate and the repair rate

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