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Integrating production, maintenance and quality: a multi-period multi-product profit-maximization model

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Highlights

- We analyze the the trade-offs between maintenance, quality and production.
- We deal with a multi-period multi-product capacitated lot-sizing context.
- We consider non-periodic inspections and imperfect preventive maintenance (IPM).
- Using non-periodic inspections and non-uniform IPM improves the total profit.

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