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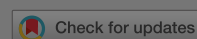
Original Articles

Impacts of carbon emission reduction mechanisms on uncertain make-to-order manufacturing

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Abstract

Lot sizing in queuing networks is pivotal to batch manufacturing, especially in stochastic environments. Despite development in lot sizing optimisation, the results are often rendered unrealistic because few studies have considered the impacts of relevant environmental regulation policies on production planning. This paper incorporates

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greenhouse gases emission. In contrast, the carbon emission constraint mechanism is like administrative orders to force out outmoded industries and outdated technologies.

Keywords: lot sizing stochastic methods make-to-order production planning emission constraint cap-and-trade

Disclosure statement

No potential conflict of interest was reported by the authors.

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