

Production and Inspection Scheduling in a Deteriorating  
Production System with Inspection Error

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ABSTRACT

In most other studies in a deteriorating production system, perfect inspection is assumed on such processes. However, inspections do not often reveal the true state of the system, or the information obtained through inspection is not reliable. Therefore, in this paper, inspection of the production process is imperfect, for which the problem of simultaneously determining EMQ (economic manufacturing quantity) and inspection schedule for process maintenance is analyzed.