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International Journal of Systems Science > Volume 44, 2013 - Issue 9

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## Optimal economic production quantity policy for randomly failing process with minimal repair, backorder and preventive maintenance

Pages 1602-1612 | Received 03 Jan 2011, Accepted 04 Dec 2011, Published online: 21 Feb 2012

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▶ https://doi.org/10.1080/00207721.2012.659702

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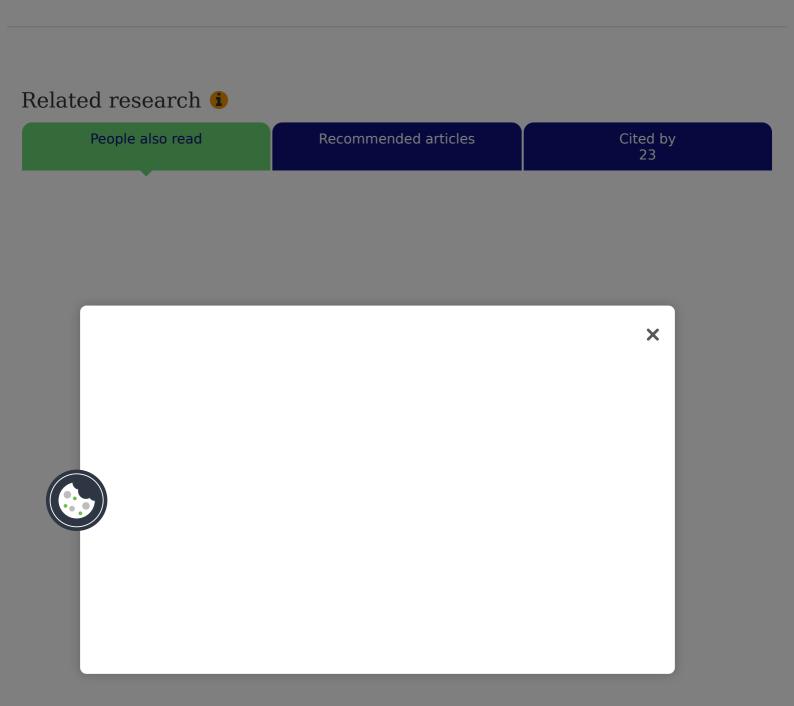
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ability, repair cost and defect number on total costs and production period. This study finds that enhancing maintenance ability reduces production related costs. The product system can be produced more efficiently using a PM program.



## Acknowledgements

The author is pleased to thank the anonymous referees, and the editors, for their valuable comments and suggestions, which significantly improved the clarity of this paper. This research was supported by the National Science Council of Republic of China, under Grant No. NSC 99-2410-H-143-009-MY2.



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