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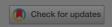
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# Developing economic order quantity model for non-instantaneous deteriorating items in vendor-managed inventory (VMI) system

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# **Abstract**

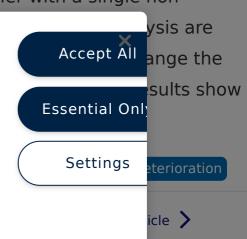
This paper develops an economic order quantity model for non-instantaneous deteriorating items with and without shortages to investigate the performance of the vendor-managed inventory (VMI) system. This model is developed for a two-level supply chain consisting of a single supplier and single retailer with a single non-

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# Additional information

## Notes on contributors

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Roya Tat received her MSc degree in industrial engineering from Alzahra University and BSc degree in industrial engineering from Mazandaran University of Science and Technology. Her research interests are in inventory control and operation research.



#### Ata Allah Taleizadeh

Ata Allah Taleizadeh is an assistant professor in School of Industrial and Systems Engineering in University of Tehran in Iran. He received his PhD in industrial engineering from Iran University of Science and Technology. Moreover he received his BSc and MSc degrees, both in industrial engineering, from Azad University of Qazvin and Iran University of Science and Technology, respectively. His research interest areas include inventory control and production planning, pricing and revenue optimisation and uncertain programming. He has published several papers and chapter books in reputable journals and he serves as the editor/editorial board member for a number of international journals.



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# Maryam Esmaeili

Maryam Esmaeili received her BSc degree in applied mathematics and operations research and MS and PhD degree in industrial engineering. Her research interests are in optimisation, game theory, supply chain management, warranty and service management. She is currently assistant professor of industrial engineering in Alzahra University. She has published several papers in reputable journals.

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