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# Optimal inventory system with two backlog costs in response to a discount offer

Mahmood Al Kindi & Bhaba R. Sarker

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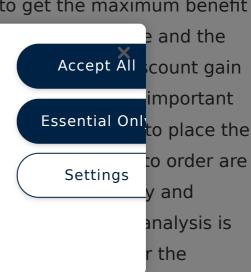
## Abstract

Apparel manufacturing industries face seasonal discount scenarios where the demand for a certain material type is increasing at a specific time, such as wool during wintertime. Suppliers offer a price discount per unit during a period in order to increase the cash flow or decrease the inventory of certain items. The buyer (manufacturer, retailer, etc.) must improve his inventory systems in order to get the maximum benefit

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optimal special quantity. Finally, a numerical analysis is used to demonstrate the impact of these factors.

Q Keywords: backlog sale period optimal order quantity discount offer

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