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Solving a
finite

horizon EPQ problem with backorders (Article) ([Open Access](#))

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Abstract

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This paper presents an alternative approach to solve a finite horizon production lot sizing model with backorders using Cauchy-Bunyakovsky-Schwarz Inequality. The optimal batch size is derived from a sequence number of batches. We prove that a constant batch size policy with one fill rate is better than the variable batch sizes with variable fill rates. Finally, a practical approach is proposed to find the optimal solutions for a discrete planning horizon and discrete batch sizes. © 2013 Elsevier Inc.

SciVal Topic Prominence

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