

An Approach for Solving the Multi-product Newsboy Problem

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Abstract—We propose a solution methodology for the multi-product newsboy model with constraints that is based on quadratic programming and a triangular presentation of the area under the cumulative probability distribution function of the demand. The methodology allows easier application of this important inventory control model that could be of particular interest in supply chain management as well as in offering a portable means to pedagogy in this field.

Keywords—Optimization, Quadratic programming, Newsboy

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