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RELEVANCE OF FACTORIAL EXPERIMENT IN SUPPLY CHAIN MANAGEMENT SYSTEM

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ABSTRACT

This research paper focuses on using confounding an efficient tool of factorial experiment of design of experiments (DoE) to optimize the facility layout in supply chain management. The critical factors that impact the performance metrics of cycle time, work-in-process and throughput can be identified by using confounding in factorial experiment. These experiments can be conducted in real world as well as, simulation models, which are used to evaluate the various what-if scenarios.

KEYWORDS: Supply Chain Management, Stimulation Model, Factorial Experiment, Confounding