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Planning Stability in Material Requirements Planning Systems

In logistics systems, the issue of planning stability has attracted increased attention and interest in recent years. This is mainly due to an increasing integration of planning systems both within and across companies in supply chain management. The propagation of adjustments in planning systems first acquired wide attention when MRP systems were employed as standard planning tools for material coordination. Within a rolling horizon framework the MRP application produced considerable planning instability which origins from uncertainties in the planner's exogenous environment as well as from endogenous sources. This book presents an analytical investigation that gives deep insight into the influence of different kind of inventory control rules on the stability of material planning systems under stochastic demand in a rolling horizon environment.

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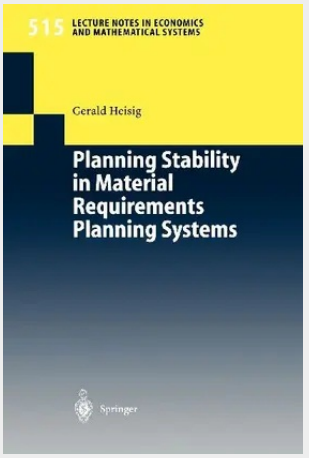

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