ABSTRACT

Replenishment problem is a problem that often occurs within the scope of the company, which examines the problems of economic scale, particularly what happened to the multi-item inventory model. In this final project, replenishment is more devoted to the joint setup, namely joint of mayor setup and minor setup in a multi-item inventory. Other condition is the assumption of instant replenishment, which indicates the fact that all the necessary items ordered from an outside supplier and there is no limit on the capacity of production facilities. There are quantity discounts are offered for ordering any specific account, which is concave and it affects the production cost structure.

By looking at the characteristics above, it would require a solution to solve the replenishment problem. The solution used is to use global optimization to determine the time and the optimal frequency to minimize the average cost of total.

Keyword: inventori multi-item, replenishment, joint setup, concave cost structure, global optimization.
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