

QUANTITATIVE ANALYSIS FOR MANAGEMENT SERIES

OPERATIONS RESEARCH MADE EASY



**VOL
1**

Dr. Vinay K S

OPERATIONS RESEARCH MADE EASY

FAST-TRACK to Volume 2

Assignment Problem:

1. Assignment means allocating various jobs to various people in the organization. Assignment should be done in such a way that the overall processing time is less, overall efficiency is high, overall productivity is high, etc.
2. We solve an assignment problem by using two methods.
(a) Completer enumeration method. (b) Hungarian method
3. In an assignment problem only one allocation can be made in particular row or a column
4. When no. of jobs is not equal to no. of workers, it is a unbalanced problem

Transportation Problem:

1. A transportation problem is concerned with transportation method or selecting routes in a product distribution network among the manufacture plant and distribution warehouse situated in different regions or local outlets.
2. We use three methods for solving a transportation problem1 i.e., to find IBFS :
(a) VAM (b) NWCR (c) LCM
Thereafter we find the optimum solution by using the MODI method and stepping-stone method.
3. A transportation problem is not subject to any such restrictions. Such restriction are peculiar to assignment problems only. Many allocations can be done in a particular row or particular column.
4. When the total demand is not equal to total supply it is unbalanced problem.

Quantitative Analysis for Management Series by

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