TRANSPORTATION PROBLEM FOR OPTIMALITY

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ABSTRACT

Transportation problem is a particular class of Linear programming problems and occurs very frequently in practical life which matches with many situations and it plays a prominent aspect that has been studied in a wide range of operations including research domains. In this paper, four variables will be optimized to reduce transportation cost using four methods which will include: Northwest corner method, least cost method, Vogel method and Modi method. This problem aims at finding the minimum transportation cost in transporting a single homogenous commodity from several origins to several destinations.

Key words: optimization techniques, transportation problem, Northwest corner, least cost, Vogel, Modi.