

Solving Time Minimizing Transportation Problem by Zero Point Method

¹Gaurav Sharma, ²S. H. Abbas, ³Vijay Kumar Gupta

1. Deptt. of mathematics, IES institute of technology and Management, Bhopal(M.P.)

2. Deptt. of mathematics, Saifia Science college Bhopal(M.P.)

3. Deptt. of mathematics, UIT, RGPV Bhopal(M.P.)

ABSTRACT - In this paper we are study on Time Minimizing Transportation Problem for Albert David Company Mandideep. The object of this problem is minimizing the transportation time of goods which supply from one source to another source. In this paper we are using zero point method [1,2] to solving time minimizing transportation problem and compare the obtained results with the regular methods, which is solve by Tora Software to get feasible solution and we find that zero point method is best from another method.

Keywords - Feasible solution, Optimal solution, Tora Software, Time Minimizing Transportation Problem

I. INTRODUCTION

The time minimizing transportation problem is a special case of a transportation problem in which a time associated with each shipping route. Rather than minimizing cost, the objective is to minimize the maximum time to transport all supply to the destinations. In a time minimizing transportation problem, the time of the transporting items from origins to destinations is minimized, satisfying certain conditions in respect of availabilities at sources and requirements.

The problem of minimizing the total transportation has been studied since long and is well known. In a time transporting goods is minimized to satisfy certain condition in respect of availabilities at sources and requirement at destinations. The basic difference between cost minimizing and time minimizing transportation problem is that the cost of transportation change with variations in the quantity but the time involved remains unchanged and irrespective of the quantities. The time minimizing transportation problem has been studied by Hammer[3], Garfinkel and Rao[4], Swarup[5], Bhatia, Swarup and Puri[6], Sharma and Swarup[7], Seshan and Tikkar[8]. Most of the models developed for solving the transportation problem are with the assumption that the supply, demand and the cost per unit values are exactly known. But real world applications, the supply, the demand and the cost per unit of quantities are generally not specified precisely i.e. the parameter are not complete. But even with incomplete information, the model user is normally able to give a realistic interval for the parameters.

Zero point method used by P Pandian and G Natrajan [1,2] to finding the optimal solution and fuzzy optimal solution to reduced transportation cost of transportation problem and fuzzy transportation problem respectively. In this paper we are using zero point method to solve time minimizing transportation problem to reduced transportation time for Albert David Company which is situated in Mandideep. Here our object is comparing the zero point method with regular method [9] of solving time minimizing transportation and we are using different -2 method to get feasible solution which is solve by Tora software.

II. MATHEMATICAL TIME MINIMIZING TRANSPORTATION PROBLEM

In a time transportation problem, the time of transporting goods from m origins to n destinations is minimized, satisfying certain condition in respect of availability at sources and requirements at the destinations.

Thus the time minimizing transportation problem is:

Minimize $Z = [\text{Max}_{(i,j)} t_{ij} \cdot x_{ij} > 0]$

Subject to $\sum_{j=1}^n x_{ij} = a_i, \quad i = 1, 2, 3, \dots, m$

$\sum_{i=1}^m x_{ij} = b_j, \quad j = 1, 2, 3, \dots, n$

$x_{ij} \geq 0$

Here t_{ij} is the time of transporting goods from the i th origin, whose availability is a_i , to the j th destination, where the requirement is b_j . For any given feasible solution, $X = [x_{ij}]$ satisfying (1), the time of transportation is the maximum of t_{ij} among the cells in which there are positive allocations, i.e., corresponding to the solution X , the time of transportation is

$$[\text{Max}_{(i,j)} t_{ij} \cdot x_{ij} > 0]$$

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Table of Contents Improved Zero Point Method Izpm For The Transportation

1. Understanding the eBook Improved Zero Point Method Izpm For The Transportation
 - The Rise of Digital Reading Improved Zero Point Method Izpm For The Transportation
 - Advantages of eBooks Over Traditional Books
2. Identifying Improved Zero Point Method Izpm For The Transportation
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Improved Zero Point Method Izpm For The Transportation
 - User-Friendly Interface
4. Exploring eBook Recommendations from Improved Zero Point Method Izpm For The Transportation

- Personalized Recommendations
 - Improved Zero Point Method Izpm For The Transportation User Reviews and Ratings
 - Improved Zero Point Method Izpm For The Transportation and Bestseller Lists
5. Accessing Improved Zero Point Method Izpm For The Transportation Free and Paid eBooks
 - Improved Zero Point Method Izpm For The Transportation Public Domain eBooks
 - Improved Zero Point Method Izpm For The Transportation eBook Subscription Services
 - Improved Zero Point Method Izpm For The Transportation Budget-Friendly Options
 6. Navigating Improved Zero Point Method Izpm For The Transportation eBook Formats
 - ePub, PDF, MOBI, and More
 - Improved Zero Point Method Izpm For The Transportation Compatibility with Devices
 - Improved Zero Point Method Izpm For The Transportation Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Improved Zero Point Method Izpm For The Transportation
 - Highlighting and Note-Taking Improved Zero Point Method Izpm For The Transportation
 - Interactive Elements Improved Zero Point Method Izpm For The Transportation
 8. Staying Engaged with Improved Zero Point Method Izpm For The Transportation
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Improved Zero Point Method Izpm For The Transportation
 9. Balancing eBooks and Physical Books Improved Zero Point Method Izpm For The Transportation
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Improved Zero Point Method Izpm For The Transportation
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Improved Zero Point Method Izpm For The Transportation
 - Setting Reading Goals Improved Zero Point Method Izpm For The Transportation
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Improved Zero Point Method Izpm For The Transportation

- Fact-Checking eBook Content of Improved Zero Point Method Izpm For The Transportation
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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