

SOLVING TRANSPORTATION PROBLEMS WITH MIXED CONSTRAINTS IN ROUGH ENVIRONMENT

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Abstract

A new method namely, rough slice-sum method for solving fully rough integer interval transportation problems is proposed. The solution obtained by the proposed method provides a plan having minimum unit shipping rough cost for the given problem. The values of decision rough variables and rough objective function for the given problem obtained by the rough slice-sum method are rough integer intervals. Numerical example is presented to understand the solution procedure of the proposed method.

AMS Subject Classification: 90B06, 90C08.

Key Words and Phrases:Transportation problem, Rough integer intervals, Unit shipping cost, Rough slice-sum method.

1 Introduction

Transportation problem is one of the popular and most important applications of the linear programming problem. Many efficient algorithms [3, 5] have been developed for solving transportation problems having deterministic parameters. In many real life situations, some or all parameters of the transportation problem are

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Integer Programming and Related Areas R.v. Randow, 2012-12-06 **Advances in Mathematical Modelling, Applied Analysis and Computation** Jagdev Singh, George A. Anastassiou, Dumitru Baleanu, Devendra Kumar, 2025-07-11 This book is a collection of research papers from the 7th International Conference on Mathematical Modelling Applied Analysis and Computation organized by Lebanese American University Beirut Lebanon from April 18 20 2024 This proceeding contains research papers related with fundamental mathematical theory and methods in a very suitable manner and useful for handling various contemporary issues of physical chemical and engineering sciences The aim of this conference is to foster cooperation among mathematicians and scientists working in these areas This book is a very useful resource for mathematicians scientists and engineers working in the field of applied mathematics analysis and computation for solving real life problems of different domains

Proceedings of the Second Congress on Control, Robotics, and Mechatronics Pradeep Kumar Jha, Prashant Jamwal, Brajesh Tripathi, Deepak Garg, Harish Sharma, 2024-11-13 This book features high quality research papers presented at the International Conference of Mechanical and Robotic Engineering Congress on Control Robotics and Mechatronics CRM 2024 jointly organized by SR University Warangal India and Soft Computing Research Society India during 3 4 February 2024 This book discusses the topics such as combustion and fuels controls and dynamics fluid mechanics I C engines and automobile engineering machine design mechatronics rotor dynamics solid mechanics thermodynamics and combustion engineering composite material aerodynamics aerial vehicles missiles and robots automatic design and manufacturing artificial intelligence unmanned aerial vehicles autonomous robotic vehicles

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Table of Contents Solving Transportation Problems With Mixed Constraints

1. Understanding the eBook Solving Transportation Problems With Mixed Constraints
 - The Rise of Digital Reading Solving Transportation Problems With Mixed Constraints
 - Advantages of eBooks Over Traditional Books
2. Identifying Solving Transportation Problems With Mixed Constraints
 - 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 Solving Transportation Problems With Mixed Constraints
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solving Transportation Problems With Mixed Constraints
 - Personalized Recommendations

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

- 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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