

SCM-3310 – Decision Tools for Supply Chains Management and Logistics**Week 5: Transportation****Students' Learning Outcomes**

1. Understand the complexity of transportation problems in supply chain management.
2. Formalize a logistics distribution problem by defining decision variables, constraints and objective functions.
3. Analyze numerical results when solving mathematical models using the computer.

Distribution Logistics in Supply Chains**Distribution Logistics**

Distribution logistics (also known as transport logistics) is the final link of the supply chain between the manufacturing of final products and the market (consumers). Transport problems in supply chain management are very complex. They can be modeled using mathematical programming, but its computational complexity does not allow to obtain optimal solutions in reasonable time for efficient decision-making. Most of decision making problems in Distribution Logistics can be modeled as a Network Flow problem.

The Shortest-Path Problem

The Shortest-Path problem consists on finding the shortest, (or fastest or least costly) route through a network or graph from an origin to a destination.

The Transportation Model

The Transportation Problem is a special case of network flow problem that can be formulated as a linear programming model where the objective usually consists in minimizing transportation cost of a given commodity from a number of sources or origins (e.g. factory, manufacturing facility) to a number of destinations (e.g. warehouse, store), as shown in Figure 1. In Graph Theory, the problem is represented by a bi-partite undirected graph. In some practical applications, origins and destinations are not fully interconnected, which means that not all origins can serve all destinations. As the number of missing arcs increases, the computational complexity to obtain a solution increases. The mathematical model is:

$$\min \sum_i \sum_j c_{ij} X_{ij}$$

Subject to:

$\forall i, \sum_j X_{ij} \leq K_i$: for each origin, the quantity sent must not be higher than its capacity.

$\forall j, \sum_i X_{ij} \geq D_j$: for each destination, the quantity received must satisfy the demand.

$\forall i, j, X_{ij} \geq 0$, all decision variables are not negative.

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