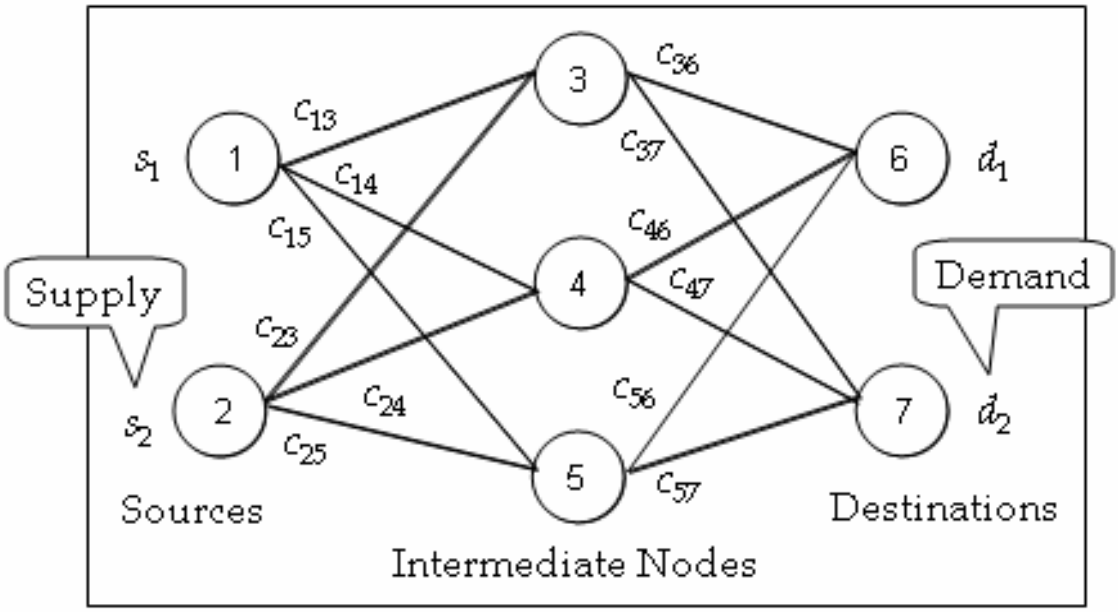
# Transshipment Problem

- Network Representation




# Transshipment Problem

- Linear Programming Formulation

  $x_{ij}$ represents the shipment from node $i$ to node $j$

$$\text{Min} \quad \sum_i \sum_j c_{ij} x_{ij}$$

| | | |
|---|---|---|
| s.t. | $\sum_j x_{ij} \leq s_i$ | for each origin $i$ |
| | $\sum_i x_{ik} - \sum_j x_{kj} = 0$ | for each intermediate node $k$ |
| | $\sum_i x_{ij} = d_j$ | for each destination $j$ |
| | $x_{ij} \geq 0$ | for all $i$ and $j$ |