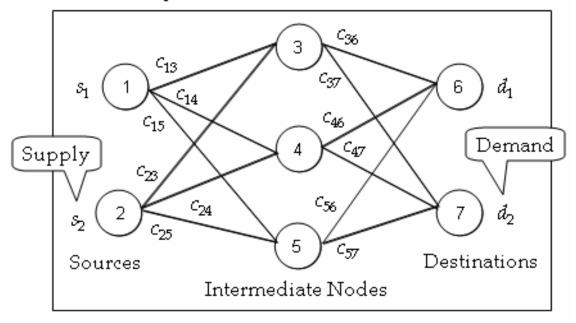
## Transshipment Problem

■ Network Representation



## Transshipment Problem

■ Linear Programming Formulation  $\mathfrak{X}_{ij}$  represents the shipment from node i to node j

$$\begin{array}{ll} \text{Min } & \sum \sum_{ij} \chi_{ij} \\ \text{s.t. } & \sum \chi_{ij} \leq s_i \\ & j \end{array} \qquad \text{for each origin } i \\ & \sum \chi_{ik} - \sum \chi_{kj} = 0 \\ & i \end{array} \qquad \text{for each intermediate} \\ & i \qquad j \qquad \text{node } k \\ & \sum \chi_{ij} = d_j \qquad \text{for each destination } j \\ & i \qquad \qquad \text{for all } i \text{ and } j \end{array}$$