



$$X_{ij} = 0, 1$$

$$i = 1, 2, 3, 4, 5$$

$$j = 1, 2, 3$$

$$X_{ij} \begin{cases} 1, & \text{ith compartment } j \text{th type fuel} \\ 0, & \text{dd} \end{cases}$$

$$y_j \begin{cases} j \text{th type fuel incomplete transport} \end{cases}$$

$$\text{Min } z = 10y_1 + 8y_2 + 6y_3$$

st)

$$2900 - (2700 X_{11} + 2800 X_{21} + 1100 X_{31} + 1800 X_{41} + 3400 X_{51}) = y_1$$

$$4000 - (2700 X_{12} + 2800 X_{22} + 1100 X_{32} + 1800 X_{42} + 3400 X_{52}) = y_2$$

$$4900 - (2700 X_{13} + 2800 X_{23} + 1100 X_{33} + 1800 X_{43} + 3400 X_{53}) = y_3$$

$$y_1 \leq 500$$

$$y_2 \leq 500$$

$$y_3 \leq 500$$

$$X_{ij} = 0, 1 \quad i = 1, 2, 3, 4, 5 \quad j = 1, 2, 3$$