

## 16-2. Continued

From the matrix partition,  $\mathbf{Q}_k = \mathbf{K}_{k1}\mathbf{D}_s + \mathbf{K}_{k2}\mathbf{D}_r$ .

$$-5(10^3) = (511.25D_1 + 22.5D_3)(10^6) \quad (1)$$

$$-24(10^3) = (511.25D_2 - 22.5D_3)(10^6) \quad (2)$$

$$11(10^3) = (22.5D_1 - 22.5D_2 + 120D_3)(10^6) \quad (3)$$

Solving Eqs. (1) to (3),

$$D_1 = -13.57(10^{-6}) \text{ m} \quad D_2 = -43.15(10^{-6}) \text{ m} \quad D_3 = 86.12(10^{-6}) \text{ rad}$$

Using these results and applying  $\mathbf{Q}_s = \mathbf{K}_{s1}\mathbf{D}_s + \mathbf{K}_{s2}\mathbf{D}_r$ ,

$$Q_4 = -11.25(10^6)(-13.57)(10^{-6}) + (-22.5)(10^6)(86.12)(10^{-6}) = -1.785 \text{ kN}$$

$$Q_5 = -500(10^6)(-43.15)(10^{-6}) = 21.58 \text{ kN}$$

$$Q_6 = 22.5(10^6)(-13.57)(10^{-6}) + 30(10^6)(86.12)(10^{-6}) = 2.278 \text{ kN} \cdot \text{m}$$

$$Q_7 = -500(10^6)(-13.57)(10^{-6}) = 6.785 \text{ kN}$$

$$Q_8 = -11.25(10^6)(-43.15)(10^{-6}) + 22.5(10^6)(86.12)(10^{-6}) = 2.423 \text{ kN}$$

$$Q_9 = -22.5(10^6)(-43.15)(10^{-6}) + 30(10^6)(86.12)(10^{-6}) = 3.555 \text{ kN} \cdot \text{m}$$

Superposition these results to those of FEM shown in Fig. a,

$$\begin{aligned} Q_1 &= -1.785 \text{ kN} + (-1.000 \text{ kN}) = -2.785 \text{ kN} \\ Q_2 &= 21.58 \text{ kN} + (-1.000 \text{ kN}) = 20.58 \text{ kN} \\ Q_3 &= 2.278 \text{ kN} \cdot \text{m} + (-0.500 \text{ kN} \cdot \text{m}) = 1.778 \text{ kN} \cdot \text{m} \\ Q_4 &= 6.785 \text{ kN} + (-1.000 \text{ kN}) = 5.785 \text{ kN} \\ Q_5 &= 2.423 \text{ kN} + (-1.000 \text{ kN}) = 1.423 \text{ kN} \\ Q_6 &= 3.555 \text{ kN} \cdot \text{m} + (-0.500 \text{ kN} \cdot \text{m}) = 3.055 \text{ kN} \cdot \text{m} \end{aligned}$$



# Matrix Structural Analysis Solution Manual Nelson

**Jin-Ying Zhang**



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