

16-2. Continued

From the matrix partition,  $Q_4 = K_{41}D_1 + K_{42}D_2$ .

$$-5(10^3) = (511.25D_1 + 22.5D_2)(10^6) \quad (1)$$

$$-24(10^3) = (511.25D_2 - 22.5D_1)(10^6) \quad (2)$$

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

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  $Q_5 = K_{51}D_1 + K_{52}D_2$ ,

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

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

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

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

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

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

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

- 1.  $Q_1 = 0$
- 2.  $Q_2 = 0$
- 3.  $Q_3 = 0$
- 4.  $Q_4 = -1.785 \text{ kN}$
- 5.  $Q_5 = 21.58 \text{ kN}$
- 6.  $Q_6 = 2.278 \text{ kN} \cdot \text{m}$
- 7.  $Q_7 = 6.785 \text{ kN}$
- 8.  $Q_8 = 2.423 \text{ kN}$
- 9.  $Q_9 = 3.555 \text{ kN} \cdot \text{m}$



# Structural Analysis Solution Manual

**Nicholas Willems, William M. Lucas**



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