

15-2. Continued

$$\mathbf{k}_2 = EI \begin{bmatrix} 4 & 1 & 6 & 3 \\ 0.1875 & 0.375 & -0.1875 & 0.375 \\ 0.375 & 1.00 & -0.375 & 0.5 \\ -0.1875 & -0.375 & 0.1875 & -0.375 \\ 0.375 & 0.5 & -0.375 & 1.00 \end{bmatrix} \begin{matrix} 4 \\ 1 \\ 6 \\ 3 \end{matrix}$$

Known Nodal Loads and Deflection. The nodal load acting on the unconstrained degree of freedom (code number 1) is shown in Fig. a. Thus,

$$Q_1 = [75(10^3)] \cdot 1 \quad \text{and} \quad D_1 = \begin{bmatrix} 0 \\ 0 \\ 0.005 \\ 0 \\ 0 \end{bmatrix} \begin{matrix} 2 \\ 3 \\ 4 \\ 5 \\ 6 \end{matrix}$$

Load-Displacement Relation. The structure stiffness matrix is a 6×6 matrix since the highest code number is 6. Applying $\mathbf{Q} = \mathbf{kD}$

$$\begin{bmatrix} 75(10^3) \\ Q_2 \\ Q_3 \\ Q_4 \\ Q_5 \\ Q_6 \end{bmatrix} = EI \begin{bmatrix} 1 & 2 & 3 & 4 & 5 & 6 \\ 1.66667 & 0.33333 & 0.5 & 0.20833 & 0.16667 & -0.375 \\ 0.33333 & 0.66667 & 0 & -0.16667 & 0.16667 & 0 \\ 0.5 & 0 & 1.00 & 0.375 & 0 & -0.375 \\ 0.20833 & -0.16667 & 0.375 & 0.24306 & -0.05556 & -0.1875 \\ 0.16667 & 0.16667 & 0 & -0.05556 & 0.05556 & 0 \\ -0.375 & 0 & -0.375 & -0.1875 & 0 & 0.1875 \end{bmatrix} \begin{matrix} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \end{matrix} \begin{bmatrix} D_1 \\ 0 \\ 0 \\ 0.005 \\ 0 \\ 0 \end{bmatrix}$$

From the matrix partition, $Q_1 = \mathbf{K}_{11}D_1 + \mathbf{K}_{12}D_2$.

$$75(10^3) = [1.6667D_1 + 0.20833(0.005)][60(10^6)]$$

$$D_1 = 0.125(10^{-3}) \text{ rad}$$

Using this result and apply, $Q_2 = \mathbf{K}_{21}D_1 + \mathbf{K}_{22}D_2$.

$$Q_2 = [0.33333][0.125(10^{-3})] + [-0.16667](0.005)[60(10^6)] = -47.5 \text{ kN} \cdot \text{m}$$

$$Q_3 = [0.5][0.125(10^{-3})] + [0.375(0.005)][60(10^6)] = 116.25 \text{ kN} \cdot \text{m}$$

Superposition these results to the (FEM) in Fig. b.

$$M_1 = -47.5 + 75 = 27.5 \text{ kN} \cdot \text{m} \quad \text{Ans.}$$

$$M_3 = 116.25 + 0 = 116.25 \text{ kN} \cdot \text{m} = 116 \text{ kN} \cdot \text{m} \quad \text{Ans.}$$

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