

15-1. Continued

Also,  $Q_2 = K_{21}D_1 + K_{22}D_2$

$$Q_2 = 0.33333EI \left( \frac{45}{EI} \right) + 0 = 15 \text{ kN} \cdot \text{m}$$

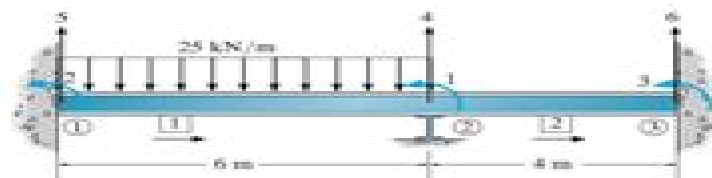
$$Q_3 = 0.5EI \left( \frac{45}{EI} \right) + 0 = 22.5 \text{ kN} \cdot \text{m}$$

Superposition of these results and the (FEM) in Fig. b,

$$M_1 = 15 + 75 = 90 \text{ kN} \cdot \text{m} \quad \text{Ans.}$$

$$M_3 = 22.5 + 0 = 22.5 \text{ kN} \cdot \text{m} \quad \text{Ans.}$$

15-2. Determine the moments at ① and ③ if the support ② moves upward 5 mm. Assume ② is a roller and ① and ③ are fixed.  $EI = 60(10^6) \text{ N} \cdot \text{m}^2$ .



Member Stiffness Matrices. For member [1],

$$\frac{12EI}{L^3} = \frac{12EI}{6^3} = 0.05556 EI \quad \frac{6EI}{L^2} = \frac{6EI}{6^2} = 0.16667 EI$$

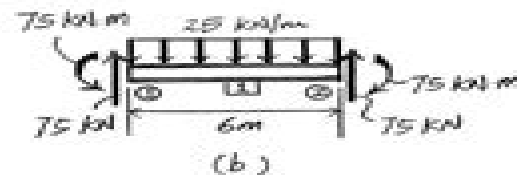
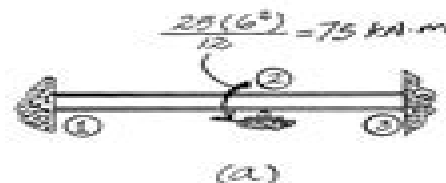
$$\frac{4EI}{L} = \frac{4EI}{6} = 0.66667 EI \quad \frac{2EI}{L} = \frac{2EI}{6} = 0.33333 EI$$

$$k_1 = EI \begin{bmatrix} 0.05556 & 0.16667 & -0.05556 & 0.16667 \\ 0.16667 & 0.66667 & -0.16667 & 0.33333 \\ -0.05556 & -0.16667 & 0.05556 & -0.16667 \\ 0.16667 & 0.33333 & -0.16667 & 0.66667 \end{bmatrix} \begin{matrix} 5 \\ 2 \\ 4 \\ 1 \end{matrix}$$

For member [2],

$$\frac{12EI}{L^3} = \frac{12EI}{4^3} = 0.1875 EI \quad \frac{6EI}{L^2} = \frac{6EI}{4^2} = 0.375 EI$$

$$\frac{4EI}{L} = \frac{4EI}{4} = EI \quad \frac{2EI}{L} = \frac{2EI}{4} = 0.5 EI$$



# Structural Theory Chapter 1 By Hibbeler Solutions

**Albert A Gayle**



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