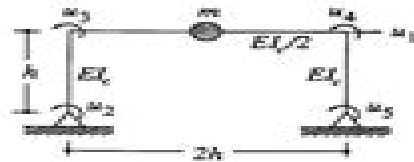


Problem 1.16

1. Define degree of freedom (DOF).



2. Form the structural stiffness matrix.

$$u_1 = 1, \quad u_2 = u_3 = u_4 = u_5 = 0$$



$$k_{12} = 2 \frac{12EI_c}{h^3} = \frac{24EI_c}{h^3}$$

$$k_{21} = k_{11} = k_{42} = k_{32} = \frac{6EI_c}{h^2}$$

$$u_2 = 1, \quad u_1 = u_3 = u_4 = u_5 = 0$$



$$k_{23} = \frac{4EI_c}{h}, \quad k_{13} = \frac{6EI_c}{h^2}$$

$$k_{32} = \frac{2EI_c}{h}, \quad k_{43} = k_{33} = 0$$

$$u_3 = 1, \quad u_1 = u_2 = u_4 = u_5 = 0$$



$$k_{35} = \frac{4EI_c}{h} + \frac{4EI_c}{2(2h)} = \frac{5EI_c}{h}$$

$$k_{15} = \frac{6EI_c}{h^2}, \quad k_{25} = \frac{2EI_c}{h}$$

$$k_{45} = \frac{2EI_c}{2(2h)} = \frac{EI_c}{2h}, \quad k_{55} = 0$$

$$u_4 = 1, \quad u_1 = u_2 = u_3 = u_5 = 0$$



$$k_{44} = \frac{4EI_c}{h} + \frac{4EI_c}{2(2h)} = \frac{5EI_c}{h}$$

$$k_{24} = \frac{6EI_c}{h^2}, \quad k_{34} = 0$$

$$k_{34} = \frac{2EI_c}{2(2h)} = \frac{EI_c}{2h}, \quad k_{44} = \frac{2EI_c}{h}$$

$$u_5 = 1, \quad u_1 = u_2 = u_3 = u_4 = 0$$



$$k_{25} = \frac{4EI_c}{h}, \quad k_{15} = \frac{6EI_c}{h^2}$$

$$k_{45} = \frac{2EI_c}{h}, \quad k_{25} = k_{35} = 0$$

Assemble the stiffness coefficients:

$$k = \frac{EI_c}{h^3} \begin{bmatrix} 24 & 6h & 6h & 6h & 6h \\ 6h & 4h^2 & 2h^2 & 0 & 0 \\ 6h & 2h^2 & 5h^2 & \frac{1}{2}h^2 & 0 \\ 6h & 0 & \frac{1}{2}h^2 & 5h^2 & 2h^2 \\ 6h & 0 & 0 & 2h^2 & 4h^2 \end{bmatrix}$$

3. Determine the lateral stiffness of the frame.

First partition k .

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L Towner



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