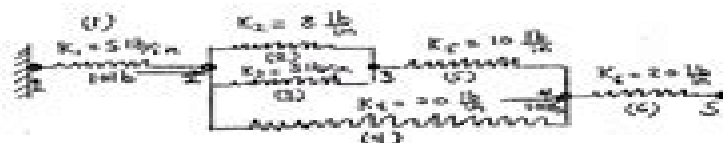


1.6



Size of the global matrix: 5×5

$$[K]^{(1)} = \begin{bmatrix} 5 & -5 \\ -5 & 5 \end{bmatrix} \begin{matrix} \text{①} \\ \text{②} \end{matrix}$$

$$[K]^{(2)} = \begin{bmatrix} 8 & -8 \\ -8 & 8 \end{bmatrix} \begin{matrix} \text{②} \\ \text{③} \end{matrix}$$

$$[K]^{(3)} = \begin{bmatrix} 5 & -5 \\ -5 & 5 \end{bmatrix} \begin{matrix} \text{②} \\ \text{③} \end{matrix}$$

$$[K]^{(4)} = \begin{bmatrix} 20 & -20 \\ -20 & 20 \end{bmatrix} \begin{matrix} \text{③} \\ \text{④} \end{matrix}$$

$$[K]^{(5)} = \begin{bmatrix} 10 & -10 \\ -10 & 10 \end{bmatrix} \begin{matrix} \text{④} \\ \text{⑤} \end{matrix}$$

$$[K]^{(6)} = \begin{bmatrix} 20 & -20 \\ -20 & 20 \end{bmatrix} \begin{matrix} \text{④} \\ \text{⑤} \end{matrix}$$

$$[K]^{(6)} = \begin{bmatrix} 5 & -5 & & & \\ -5 & 5+8+5+20 & -8-5 & -20 & \\ & -8-5 & 8+5+10 & -10 & \\ & & -20 & -10 & 20+10+20 & -20 \\ & & & -20 & 20+10+20 & -20 \\ & & & & -20 & 20 \end{bmatrix}$$

applying BCs and loads, $u_1 = u_5 = 0$ $F_2 = 10 \text{ lb}$ $F_4 = 10 \text{ lb}$

$$\begin{bmatrix} 38 & -13 & -20 \\ -13 & 23 & -10 \\ -20 & -10 & 50 \end{bmatrix} \begin{Bmatrix} u_2 \\ u_3 \\ u_4 \end{Bmatrix} = \begin{Bmatrix} 10 \\ 0 \\ 10 \end{Bmatrix}$$

$$u_2 = 0.962 \text{ in}$$

$$u_3 = 0.874 \text{ in}$$

$$u_4 = 0.760 \text{ in}$$

node 1:

$$R_1 \leftarrow K_1(u_2 - u_1)$$

$$R_1 = 5(0.962 - 0) = 4.8 \text{ lb}$$

node 5:

$$R_5 \leftarrow K(u_4 - u_5)$$

$$R_5 = 20(0.760 - 0) = 15.2 \text{ lb}$$

note also as a check,

$$R_1 + R_5 = \sum F_{external}$$

$$4.8 + 15.2 = 10 + 10$$

Finite Element Analysis Solution Manual Moaveni

J Spring



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