

Formulate the element stiffness matrix in local co-ordinate system and then transform it to global co-ordinate system. The origin of the global co-ordinate system is taken at node 1. Here the element stiffness matrix in global co-ordinates is only given.

**Member 1:**  $L = 6 \text{ m}$  ;  $\theta = 90^\circ$  node points 1-2;  $l = 0$  and  $m = 1$ .

**Member 2:**  $L = 4 \text{ m}$  ;  $\theta = 0^\circ$  ; node points 2-3 ;  $l = 1$  and  $m = 0$ .

$$[k^g] = [T]^T [k^l] [T]$$

$$= \begin{bmatrix} 4 & 5 & 6 & 7 & 8 & 9 \\ 2.0 \times 10^6 & 0 & 0 & -2.0 \times 10^6 & 0 & 0 \\ 0 & 5 \times 10^3 & 10 \times 10^3 & 0 & -5 \times 10^3 & 10 \times 10^3 \\ 0 & 10 \times 10^3 & 26.66 \times 10^3 & 0 & -10 \times 10^3 & 8.88 \times 10^3 \\ -2.0 \times 10^6 & 0 & 0 & 2.0 \times 10^6 & 0 & 0 \\ 0 & -5 \times 10^3 & -10 \times 10^3 & 0 & 5 \times 10^3 & -10 \times 10^3 \\ 0 & 10 \times 10^3 & 8.88 \times 10^3 & 0 & -10 \times 10^3 & 26.66 \times 10^3 \end{bmatrix} \begin{matrix} 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \end{matrix}$$



**Fig 2.14 Fixed end action due to external loading in element 1 and 2**

# Matrix Methods Of Structural Analysis

**B Lingard**

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