

1.10

Step 1. Idealization:



$$l^{(i)} = 5 \text{ cm}, \quad E^{(i)} = 2 \times 10^7 \text{ N/cm}^2 \quad ; \quad i = 1, 2$$

$$A_1^{(1)} = 2 \text{ cm}^2, \quad A_2^{(1)} = A_1^{(2)} = 1.5 \text{ cm}^2, \quad A_2^{(2)} = 1 \text{ cm}^2$$

Step 2. Interpolation model:

$$\phi(x) = \left[ \left(1 - \frac{x}{l^{(e)}}\right) \quad \left(\frac{x}{l^{(e)}}\right) \right] \begin{Bmatrix} \bar{\phi}_1^{(e)} \\ \bar{\phi}_2^{(e)} \end{Bmatrix}$$

Step 3. Element equations:

$$\text{strain energy of element } e = \int_0^{l^{(e)}} \left( \frac{1}{2} \sigma^{(e)} \epsilon^{(e)} \right) A^{(e)} dx$$

$$\text{with } \sigma^{(e)} = E^{(e)} \epsilon^{(e)}, \quad \epsilon^{(e)} = \frac{d\phi}{dx} = \frac{\bar{\phi}_2^{(e)} - \bar{\phi}_1^{(e)}}{l^{(e)}}$$

$$\text{Here } A^{(e)}(x) = A_1^{(e)} + \frac{A_2^{(e)} - A_1^{(e)}}{l^{(e)}} x$$

$$\begin{aligned} \text{Hence } \pi^{(e)} = \text{strain energy} &= \frac{E^{(e)}}{2} \left( \frac{\bar{\phi}_2^{(e)} - \bar{\phi}_1^{(e)}}{l^{(e)}} \right)^2 \int_0^{l^{(e)}} \left\{ A_1^{(e)} + \frac{A_2^{(e)} - A_1^{(e)}}{l^{(e)}} x \right\} dx \\ &= \frac{A_{av}^{(e)} E^{(e)}}{2 l^{(e)}} \left( \bar{\phi}_1^{(e)2} + \bar{\phi}_2^{(e)2} - 2 \bar{\phi}_1^{(e)} \bar{\phi}_2^{(e)} \right) \end{aligned}$$

$$\text{where } A_{av}^{(e)} = \text{average area} = \frac{A_1^{(e)} + A_2^{(e)}}{2}$$

$$\text{Expressing } \pi^{(e)} \text{ as } \pi^{(e)} = \frac{1}{2} \bar{\vec{\phi}}^{(e)T} [K^{(e)}] \bar{\vec{\phi}}^{(e)},$$

we obtain

$$[K^{(e)}] = \frac{A_{av}^{(e)} E^{(e)}}{l^{(e)}} \begin{bmatrix} 1 & -1 \\ -1 & 1 \end{bmatrix} \quad \text{with } \bar{\vec{\phi}}^{(e)} = \begin{Bmatrix} \bar{\phi}_1^{(e)} \\ \bar{\phi}_2^{(e)} \end{Bmatrix}$$

# Solution Manual Singiresu S Rao

**Arthur James Wells**



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