1-1

(a) Using two elements

$A(y) = 0.25 - 0.0125y$

$A_1 = 0.25 \text{ in}^2$ $A_2 = 0.1875 \text{ in}^2$

$A_3 = 0.125 \text{ in}^2$

$K_{eq} = \dfrac{(A_{i+1} + A_i)E}{2\ell}$

$K_1 = \dfrac{(0.25 + 0.1875)(10.4 \times 10^6)}{2(5)} = 455{,}000 \dfrac{lb}{in}$

$K_2 = \dfrac{(0.1875 + 0.125)(10.4 \times 10^6)}{2(5)} = 325{,}000 \dfrac{lb}{in}$

$$10^3 \begin{bmatrix} 455 & -455 & 0 \\ -455 & 455+325 & -325 \\ 0 & -325 & 325 \end{bmatrix} \begin{Bmatrix} u_1 \\ u_2 \\ u_3 \end{Bmatrix} = \begin{Bmatrix} 0 \\ 0 \\ 1000 \end{Bmatrix}$$

$u_1 = 0,$ $u_2 = 0.002197 \text{ in}$ $u_3 = 0.005274 \text{ in}$

(b)

$A_1 = 0.25 \text{ in}^2$

$A_2 = 0.234375 \text{ in}^2$

$A_3 = 0.21875 \text{ in}^2$

$A_4 = 0.203125 \text{ in}^2$

$A_5 = 0.1875 \text{ in}^2$

$A_6 = 0.171875 \text{ in}^2$

$A_7 = 0.15625 \text{ in}^2$

$A_8 = 0.140625 \text{ in}^2$

$A_9 = 0.125 \text{ in}^2$

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Didier Musso

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