$$\begin{split} h &= 4.5 \text{ m} \\ P &= 11.0 \times 10^4 \text{ N} \\ F &= 3.0 \times 10^5 \text{ N} \\ E &= 2.0 \times 10^{11} \text{ N} \text{ / m}^2 \\ A &= 250 \text{ cm}^2 \\ -\frac{\text{d}}{\text{d}x} \left(EA\frac{\text{d}u}{\text{d}x} \right) = 0 \end{split}$$