

# FUNDAMENTAL CONCEPTS OF MOTION, FORCES, AND ENERGY



20.3  $L = 4 \text{ m}$ ;  $F = 60$

$$A = \frac{FL}{YA} = \frac{(60)(4)}{(7 \times 10^{11})(3 \times 10^{-3})} = 1.14 \mu\text{m}$$

20.4  $\Delta L = 5 \times 10^{-4} \text{ m}$ ;  $L = 2 \text{ m}$ ;  $A = 2 \times 10^{-6} \text{ m}^2$

$$F = YA \left( \frac{\Delta L}{L} \right) = (2 \times 10^{11})(2 \times 10^{-6}) \left( \frac{5 \times 10^{-4}}{2} \right) = 110 \text{ N}$$

20.5  $L = 3 \text{ m}$ ;  $P = 6000 \text{ N}$ ;  $A = 8 \times 10^{-5} \text{ m}^2$

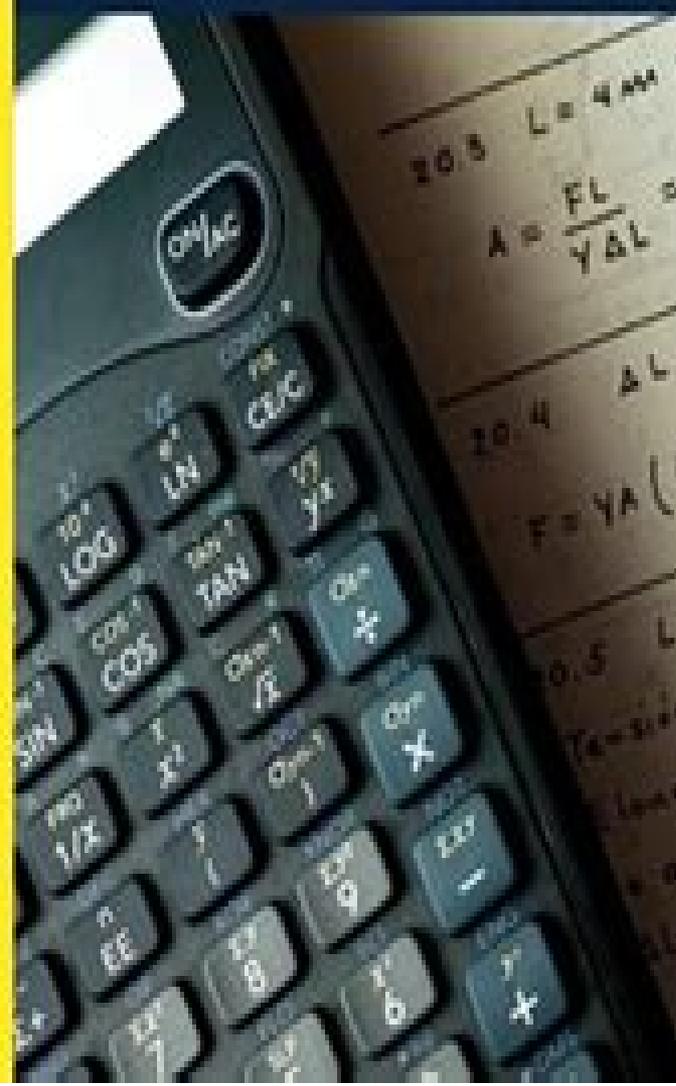
Tensión en cada alambre:  $F = \frac{P}{2} = 3000 \text{ N}$ .

elongación del alambre:

$$\Delta L = \frac{FL}{YA} = \frac{(3000)(3)}{(2 \times 10^{11})(8 \times 10^{-5})} = 0.51 \text{ mm}$$

alambre

$$\Delta L = \frac{(3000)(3)}{(2 \times 10^{11})(8 \times 10^{-5})} = 0.51 \text{ mm}$$



# Motion Forces And Energy M

**K Payea**



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