PROBLEM 2.2

A 4.8-ft-long steel wire of $\frac{1}{4}$ -in.-diameter is subjected to a 750-lb tensile load. Knowing that $E = 29 \times 10^6$ psi, determine (a) the elongation of the wire, (b) the corresponding normal stress.

-

S = 0.0303 in.

σ = 15.28 ksi ◀

SOLUTION

(a) Deformation:
$$\delta = \frac{PL}{AE}$$
; $A = \frac{\pi d^2}{4}$

Area:
$$A = \frac{\pi (0.25 \text{ in.})^2}{4} = 4.9087 \times 10^{-2} \text{ in}^2$$

$$(750 \text{ lb})(4.8 \text{ ft} \times 12 \text{ in./ft})$$

$$S = \frac{(750 \text{ lb})(4.8 \text{ ft} \times 12 \text{ in/ft})}{(4.9087 \times 10^{-2} \text{ in}^2)(29 \times 10^6 \text{ psi})}$$

$$S = 3.0347 \times 10^{-2} \text{ in.}$$

(b) Stress:
$$\sigma = \frac{P}{A}$$

Area:
$$\sigma = \frac{(750 \text{ lb})}{(4.9087 \times 10^{-2} \text{ in}^2)}$$

$$\sigma = 1.52790 \times 10^4 \, \mathrm{psi}$$

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N Noddings

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