P1.6 Axial loads are applied with rigid bearing plates to the solid cylindrical rods shown in Figure P1.6/7. One load of P = 1,500 lb is applied to the assembly at A, two loads of Q = 900 lb are applied at B, and two loads of R = 1,300 lb are applied at C. The diameters of rods (1), (2), and (3) are $d_1 = 0.625$ in., $d_2 = 0.500$ in., and $d_3 = 0.875$ in. Determine the axial normal stress in each of the three rods.



FIGURE P1.6/7

Solution

Cut an FBD through rod (1). The FBD should include the free end of the assembly at A. We will assume that the internal force in rod (1) is tension. From equilibrium, the force in rod (1) is

$$\Sigma F_{\pi} = -P + F_{\parallel} = 0$$

 $\therefore F_{\parallel} = P = 1,500 \text{ lb} = 1,500 \text{ lb} \text{ (T)}$



Use the given diameter to calculate the cross-sectional area of rod (1):

$$A_i = \frac{\pi}{4} d_i^2 = \frac{\pi}{4} (0.625 \text{ in.})^2 = 0.3068 \text{ in.}^2$$

The normal stress in rod (1) is

Ans.

Cut an FBD through rod (2). The FBD should include the free end of the assembly at A. We will assume that the internal force in rod (2) is tension. From equilibrium, the force in rod (2) is

$$\Sigma F_x = -P + 2Q + F_2 = 0$$

$$F_5 = P - 2Q = 1,500 \text{ lb} - 2(900 \text{ lb}) = -300 \text{ lb} = 300 \text{ lb} (C)$$



Use the given diameter to calculate the cross-sectional area of rod (2):

$$A_2 = \frac{\pi}{4} d_2^2 = \frac{\pi}{4} (0.500 \text{ in.})^2 = 0.1963 \text{ in.}^2$$

The normal stress in rod (2) is

$$\sigma_2 = \frac{F_2}{A_1} = \frac{-300 \text{ lb}}{0.1963 \text{ in.}^2} = -1,527.89 \text{ psi} = \boxed{1,528 \text{ psi (C)}}$$

A.ms.

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