

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.



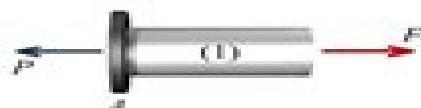
FIGURE P1.6/7

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

$$\Sigma F_x = -P + F_1 = 0$$

$$\therefore F_1 = P = 1,500 \text{ lb} = 1,500 \text{ lb (T)}$$



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

$$A_1 = \frac{\pi}{4} d_1^2 = \frac{\pi}{4} (0.625 \text{ in.})^2 = 0.3068 \text{ in.}^2$$

The normal stress in rod (1) is

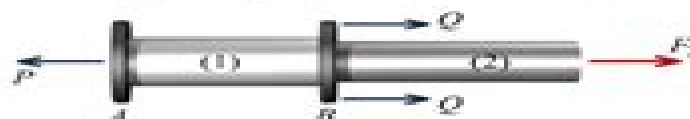
$$\sigma_1 = \frac{F_1}{A_1} = \frac{1,500 \text{ lb}}{0.3068 \text{ in.}^2} = 4,889.24 \text{ psi} = \boxed{4,890 \text{ psi (T)}}$$

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

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

$$\therefore F_2 = P - 2Q = 1,500 \text{ lb} - 2(900 \text{ lb}) = -300 \text{ lb} = 300 \text{ lb (C)}$$



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

$$\sigma_2 = \frac{F_2}{A_2} = \frac{-300 \text{ lb}}{0.1963 \text{ in.}^2} = -1,527.89 \text{ psi} = \boxed{1,528 \text{ psi (C)}}$$

Ans.

Mechanics Of Materials 4th Edition Solution

Roy R. Craig, Jr., Eric M. Taleff



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Applied Mechanics Reviews, 1973 The Publishers' Trade List Annual, 1987 Geodynamics Donald L. Turcotte, Gerald Schubert, 2002-03-25

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