

**P1.6/7.** 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

**Michael F. Ashby, Hugh Shercliff, David  
Cebon**



## **Mechanics Of Materials 4th Edition Solution :**

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*Engineering Solutions for Sustainability* Jeffrey W. Fergus, Brajendra Mishra, Dayan Anderson, Emily Allyn

Sarver, Neale R. Neelameggham, 2015-07-29 This book contains a collection of papers presented at Engineering Solutions for Sustainability Materials and Resources II a special symposium organized as part of the TMS 2015 Annual Meeting the strategies for effective use of engineering solutions and the role of the global engineering community Authors share perspectives on the major engineering challenges that face our world today identify discuss and prioritize engineering solution needs and establish how these fit into developing global demand pressures for materials and human resources

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