

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

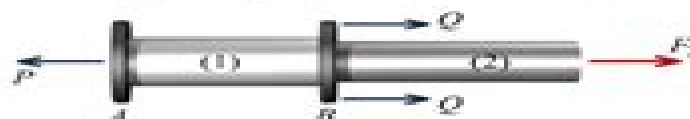
$$\sigma_1 = \frac{F_1}{A_1} = \frac{1,500 \text{ lb}}{0.3068 \text{ in.}^2} = 4,889.24 \text{ psi} = \boxed{4,890 \text{ psi (T)}}$$

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

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



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web buttress thread casing connections 9 5 8 13 3 8 od casing btc make up torque valves of buttress thread casing connections sizes 9 5 8in to 13 3 8in od shall be determined by carefully noting the torque required to make up each of several connections to the base of the triangle provided the position falls within

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web opti torq optimum torque nom wt nominal weight common application casing r95 m65 n80 j55 k55 h40 these are commonly used in wells that do not demand stringent strength and anti corrosion requirements the following are the descriptions of two grades h40 and k55 h40 api color code 1 black band or none

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4 13 3 8 16 18 5 8 20 2 wall thickness 5 21 16 13 mm 3

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premium class class 2 o d nomia weig wall thicknes 12 5 minimum wall 20 minimum wall 30 minimum wall 2 3 8 6 65 0 280 0
035 0 245 0 056 0 224 0 084 0 196 60 3 9 90 7 11 0

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strength or the calculat ed t3 value 2 17 8 13 4 1 1 2 1 3 8 1 1 4 21 8 2 17 8 1 7

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web specifications outer dimensions 6 0mm 219 0mm wall thickness 1 0mm 30 mm length r1 4 88 7 62m r2 7 62 10 36m r3
10 36 14 63m thread type short round thread long round thread buttress thread j55 casing tubing steel color code a bright
green band j55 coupling color code entire green coupling a white band

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