

### Problem 1.1

1.1 Two solid cylindrical rods  $AB$  and  $BC$  are welded together at  $B$  and loaded as shown. Determine the magnitude of the force  $P$  for which the tensile stress in rod  $AB$  is twice the magnitude of the compressive stress in rod  $BC$ .

$$A_{AB} = \frac{\pi}{4} (50)^2 = 1963.5 \text{ mm}^2$$

$$\sigma_{AB} = \frac{P}{A_{AB}} = \frac{P}{1963.5} \\ = 507.3 \times 10^{-6} P$$

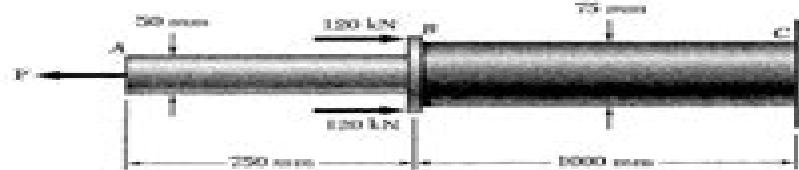
$$A_{BC} = \frac{\pi}{4} (75)^2 = 4417.9 \text{ mm}^2$$

$$\sigma_{BC} = \frac{(240 - P)}{A_{BC}} \\ = \frac{240 - P}{4417.9} = 0.0543 - 226.4 \times 10^{-6} P$$

Equating  $\sigma_{AB}$  to  $2 \sigma_{BC}$

$$507.3 \times 10^{-6} P = 2(0.0543 - 226.4 \times 10^{-6} P)$$

$$P = 112.4 \text{ kN}$$



### Problem 1.2

1.2 In Prob. 1.1, knowing that  $P = 160 \text{ kN}$ , determine the average normal stress at the midsection of (a) rod  $AB$ , (b) rod  $BC$ .

# 5th Edition Beer Johnston Solution Manual 238506

**Peipei Pang**

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