

1.2-1

Bar in tension



$d_{AB} = 1.75 \text{ in}$        $d_{BC} = 1.75 \text{ in}$   
 $\sigma_{AB} = 5000 \text{ psi}$       Find  $\sigma_{BC}$   
 $\sigma = \frac{P}{A}$       and  $P = \sigma A$   
 $\therefore P = \sigma_{AB} A_{AB} = \sigma_{BC} A_{BC}$   
 $(5000 \text{ psi}) \left( \frac{\pi}{4} \right) (1.75 \text{ in})^2 = \sigma_{BC} \left( \frac{\pi}{4} \right) (1.75 \text{ in})^2$   
 $\sigma_{BC} = (5000 \text{ psi}) \left( \frac{1.75 \text{ in}}{1.75 \text{ in}} \right)^2$   
 $= 9800 \text{ psi} \leftarrow$

(a) Shortening  $\delta$  of the bar

$\epsilon = 570 \cdot 10^{-6}$   
 $\delta = \epsilon L = (570 \cdot 10^{-6})(20 \text{ in})$   
 $= 0.0114 \text{ in} \leftarrow$

(b) Compressive load P

$\sigma = 6 \text{ ksi}$   
 $A = \frac{\pi}{4} [d_2^2 - d_1^2] = \frac{\pi}{4} [(24 \text{ in})^2 - (2.0 \text{ in})^2]$   
 $= 1.382 \text{ in}^2$   
 $P = \sigma A = (6 \text{ ksi})(1.382 \text{ in}^2)$   
 $= 8290 \text{ lb} \leftarrow$

1.2-2

Free-body diagram of brake pedal



$F$  = compressive force in piston rod  
 $d$  = diameter of piston rod  
 $= 5 \text{ mm}$

Equilibrium of brake pedal

$\sum M_A = 0$   
 $F(50 \text{ mm}) - P(275 \text{ mm}) = 0$   
 $F = P \left( \frac{275 \text{ mm}}{50 \text{ mm}} \right) = (40 \text{ N}) \left( \frac{275}{50} \right) = 220 \text{ N}$

Compressive Stress in Piston rod ( $d = 5 \text{ mm}$ )

$\sigma_c = \frac{F}{A} = \frac{220 \text{ N}}{\frac{\pi}{4} (5 \text{ mm})^2} = 11.2 \text{ MPa} \leftarrow$

1.2-4

Concrete Pedestal in Compression



Use the following areas:

$A_1 = (1.2 \text{ m})(0.5 \text{ m}) = 0.6 \text{ m}^2$   
 $A_2 = A_3 = \frac{1}{2} (0.5 \text{ m})(0.25 \text{ m}) = 0.0625 \text{ m}^2$   
 $A_3 = (0.25 \text{ m})(0.25 \text{ m}) = 0.16 \text{ m}^2$   
 $A = A_1 + 2A_2 + A_3$   
 $= 0.6 \text{ m}^2 + 2(0.0625 \text{ m}^2) + 0.16 \text{ m}^2$   
 $= 0.92 \text{ m}^2$



(a) Average compressive stress  $\sigma_c$

$P = 11.5 \text{ MN}$   
 $\sigma_c = \frac{P}{A} = \frac{11.5 \text{ MN}}{0.92 \text{ m}^2} = 12.5 \text{ MPa} \leftarrow$

(b) Coordinates of centroid C

From symmetry,  $\bar{y} = \frac{1.2 \text{ m}}{2} = 0.6 \text{ m} \leftarrow$   
 $\bar{x} = \frac{\sum \bar{x}_i A_i}{A}$  (see Chapter 12, Section 12.3, Eq. 12-7a)  
 $\bar{x} = \frac{1}{A} (\bar{x}_1 A_1 + 2\bar{x}_2 A_2 + \bar{x}_3 A_3)$   
 $= \frac{1}{0.92 \text{ m}^2} [(0.25 \text{ m})(0.6 \text{ m}^2) + 2(0.625 \text{ m})(0.0625 \text{ m}^2) + (0.25 \text{ m})(0.16 \text{ m}^2)] = 0.395 \text{ m} \leftarrow$

1.2-3

Aluminum tube in compression



Outside diameter  $d_2 = 2.4 \text{ in}$   
 Inside diameter  $d_1 = 2.0 \text{ in}$

CONT.

# Elasticity Timoshenko Solution Manual

**Michael Brown**



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