1.2-1

Bar in tension

$d_{AB} = 1.75$ in. $d_{BC} = 1.25$ in.

$\sigma_{AB} = 5000$ psi   Find σ_{BC}

$\sigma = \dfrac{P}{A}$ and $P = \sigma A$

$\therefore P = \sigma_{AB} A_{AB} = \sigma_{BC} A_{BC}$

$(5000 \text{ psi})\left(\dfrac{\pi}{4}\right)(1.75 \text{ in.})^2 = \sigma_{BC}\left(\dfrac{\pi}{4}\right)(1.25 \text{ in.})^2$

$\sigma_{BC} = (5000 \text{ psi})\left(\dfrac{1.75 \text{ in.}}{1.25 \text{ in.}}\right)^2$

$= 9800$ psi ◄

1.2-2

Free-body diagram of brake pedal

F = compressive force in piston rod

d = diameter of piston rod
  = 5 mm

Equilibrium of brake pedal

$\Sigma M_A = 0$ ↻ + ↺ −

$F(50 \text{ mm}) - P(275 \text{ mm}) = 0$

$F = P\left(\dfrac{275 \text{ mm}}{50 \text{ mm}}\right) = (40 \text{ N})\left(\dfrac{275}{50}\right) = 220 \text{ N}$

Compressive Stress in Piston rod (d = 5 mm)

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

1.2-3

Aluminum tube in compression

L = 20 in.

Outside diameter $d_2 = 2.4$ in.

Inside diameter $d_1 = 2.0$ in.

CONT.

(a) Shortening δ of the bar

$\epsilon = 570 \cdot 10^{-6}$

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

$= 0.0114$ in. ◄

(b) Compressive load P

$\sigma = 6$ ksi

$A = \dfrac{\pi}{4}[d_2^2 - d_1^2] = \dfrac{\pi}{4}[(2.4 \text{ in.})^2 - (2.0 \text{ in.})^2]$

$= 1.382$ in.^{2}

$P = \sigma A = (6 \text{ ksi})(1.382 \text{ in.}^2)$

$= 8290$ lb ◄

1.2-4

Concrete Pedestal in Compression

Use the following areas:

$A_1 = (1.2 \text{ m})(0.5 \text{ m}) = 0.6$ m^2

$A_2 = A_4 = \frac{1}{2}(0.4 \text{ m})(0.4 \text{ m}) = 0.08$ m^2

$A_3 = (0.4 \text{ m})(0.4 \text{ m}) = 0.16$ m^2

$A = A_1 + 2A_2 + A_3$

$= 0.6 \text{ m}^2 + 2(0.08 \text{ m}^2) + 0.16 \text{ m}^2$

$= 0.92$ m^2

(a) Average compressive stress σ_z

$P = 11.5$ MN

$\sigma_z = \dfrac{P}{A} = \dfrac{11.5 \text{ MN}}{0.92 \text{ m}^2} = 12.5 \text{ MPa}$ ◄

(b) Coordinates of centroid C

From symmetry, $\bar{z} = \dfrac{1.2 \text{ m}}{2} = 0.6$ m ◄

$\bar{x} = \dfrac{\Sigma \bar{x}_i A_i}{A}$ (See Chapter 12, Section 12.3, Eq. 12-7a)

$\bar{x} = \dfrac{1}{A}(\bar{x}_1 A_1 + 2\bar{x}_2 A_2 + \bar{x}_3 A_3)$

$= \dfrac{1}{0.92 \text{ m}^2}[(0.25 \text{ m})(0.6 \text{ m}^2) + 2(0.6333 \text{ m})(0.08 \text{ m}^2)$

$+ (0.7 \text{ m})(0.16 \text{ m}^2)] = 0.395$ m ◄

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