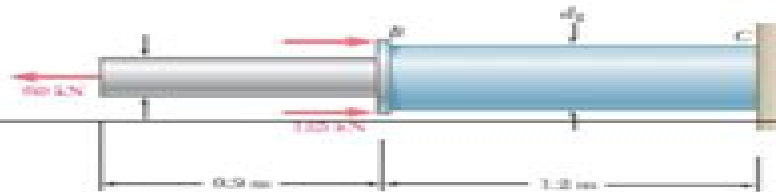


Mechanics of Materials Beer 7th Edition Solutions Manual

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PROBLEM 1.1

Two solid cylindrical rods AB and BC are welded together at B and loaded as shown. Knowing that $d_1 = 30$ mm and $d_2 = 50$ mm,

find the average normal stress at the midsection of (a) rod AB, (b) rod BC.

SOLUTION

(a) Rod AB:

Force: $P = 60 \times 10^3$ N tension

Area: $A = \frac{\pi}{4} d_1^2 = \frac{\pi}{4} (30 \times 10^{-3})^2 = 706.86 \times 10^{-6} \text{ m}^2$

Normal stress: $\sigma_{AB} = \frac{P}{A} = \frac{60 \times 10^3}{706.86 \times 10^{-6}} = 84.882 \times 10^6 \text{ Pa}$

$\sigma_{AB} = 84.9 \text{ MPa}$

(b) Rod BC:

Force: $P = 60 \times 10^3 + (2)(125 \times 10^3) = 190 \times 10^3$ N

Area: $A = \frac{\pi}{4} d_2^2 = \frac{\pi}{4} (50 \times 10^{-3})^2 = 1.96350 \times 10^{-3} \text{ m}^2$

Normal stress: $\sigma_{BC} = \frac{P}{A} = \frac{190 \times 10^3}{1.96350 \times 10^{-3}} = 96.766 \times 10^6 \text{ Pa}$

$\sigma_{BC} = 96.8 \text{ MPa}$

Vector Mechanics 7th Edition Beer Solutions Manual

Y Pai



Vector Mechanics 7th Edition Beer Solutions Manual:

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