

Qs1

Monday, October 19, 2020

7:50 PM

GIVEN:

$$M = 90 \text{ kNm}$$

$$\text{Cross section : } x = 0.2 \text{ m}$$

$$y = 0.15 \text{ m}$$

FIND:

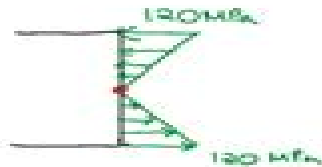
Max. normal stress
Stress distribution

SOLUTION

$$I_x = \frac{bh^3}{12} = \frac{0.2 \times 0.15^3}{12}$$

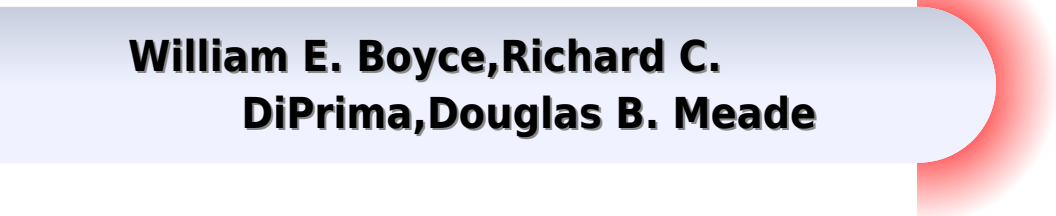
$$\begin{aligned}\sigma_{\max} &= -\frac{M y}{I_x} \\ &= -\frac{(90 \times 10^3) \times (0.15/2)}{\frac{0.2 \times 0.15^3}{12}}\end{aligned}$$

$$\sigma_{\max} = -120 \text{ MPa}$$



Homework 7 Solutions Purdue University

**William E. Boyce, Richard C.
DiPrima, Douglas B. Meade**



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