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Problem 1

Where do stress concentrations occur?

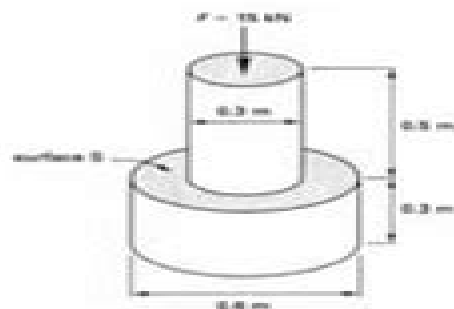
- I. near the points of application of concentrated loads
- II. along the entire length of high distributed loads
- III. at discontinuities

(A) I and II
(C) II and III

(B) I and III
(D) I, II, and III

Problem 2

What is most nearly the stress at surface S of the cylindrical object shown? The specific weight of the material is $\gamma = 76.9 \text{ kN/m}^3$.



(A) 100 kPa
(C) 200 kPa

(B) 150 kPa
(D) 250 kPa

Problem 3

What is the deflection at point B of the beam shown?



(A) 17 mm
(C) 36 mm

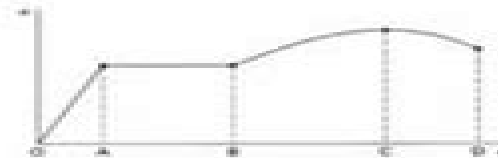
(B) 25 mm
(D) 48 mm

Name: _____

Due Thursday, March 16, 2006

Problem 4

Consider the stress-strain diagram for a carbon steel in tension. Determine the region of perfect plasticity or yielding.

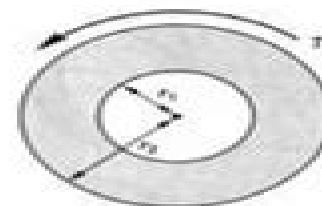


(A) O to A
(C) B to C

(B) A to B
(D) C to D

Problem 5

A hollow circular bar has an inner radius r_1 and an outer radius r_2 . If $r_1 = r_2/2$, most nearly what percentage of torque can the shaft carry in comparison with a solid shaft?



(A) 25%
(C) 75%

(B) 55%
(D) 95%

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