# **FUNDAMENTAL PROBLEMS**

F1-7. The uniform beam is supported by two rods AB and CD that have cross-sectional areas of 10 mm<sup>2</sup> and 15 mm<sup>2</sup>, respectively. Determine the intensity w of the distributed load so that the average normal stress in each rod does not exceed 300 kPa.



F1-8. Determine the average normal stress developed on the cross section. Sketch the normal stress distribution over the cross section.

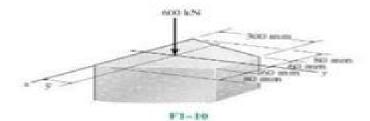


FIG. - B

F1-9. Determine the average normal stress developed on the cross section. Sketch the normal stress distribution over the cross section.



F1-10. If the 600-kN force acts through the centroid of the cross section, determine the location y of the centroid and the average normal stress developed on the cross section. Also, sketch the normal stress distribution over the cross section.



F1-11. Determine the average normal stress developed at points A, B, and C. The diameter of each segment is indicated in the figure.



F1-12. Determine the average normal stress developed in red AB if the load has a mass of 50 kg. The diameter of red AB is 8 mm.



W1 - 3.2

# **Mechanics Of Materials 8th Edition Hibbler Beam**

**K Morrison** 

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