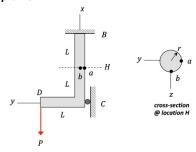
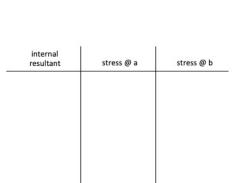
Quiet Week Example No. 2



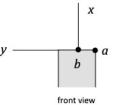
The L-shaped structural member above has a circular cross-section with a radius of r. The member is supported by a fixed connection to ground at B and a roller at C as it carries a downward vertical load of *P* at D. What is the absolute maximum shear stress in the member at points "a" and "b" on the cross-section at H? Expect the following steps in the analysis.

- i. Equilibrium analysis
- ii. Deflection analysis (for finding external reactions in indeterminate structures)
- iii. Internal resultant analysis
- iv. Description of the states of stress
- v. Mohr's circles for the two states of stress
- vi. Absolute maximum shear stress

SOLUTION



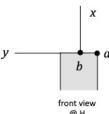






@ H





@ H

