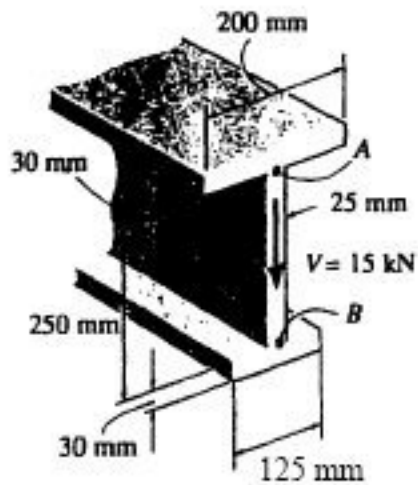
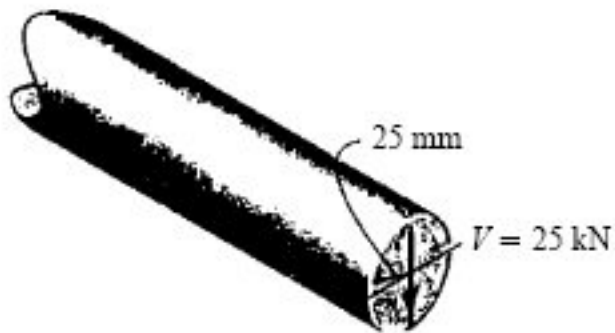


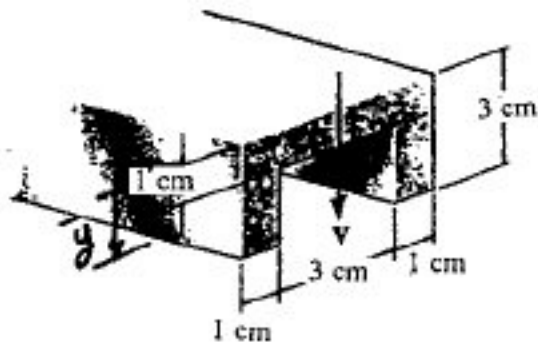
7-2 If the wide-flange beam is subjected to a shear of  $V = 30 \text{ kN}$ , determine the maximum shear stress in the beam.



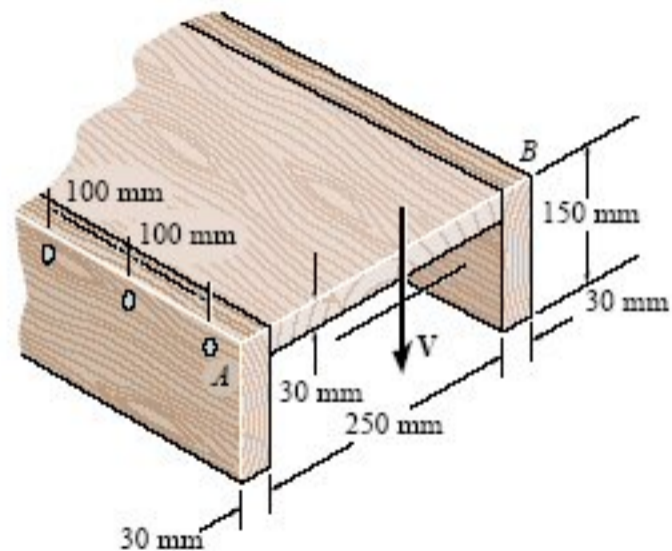
7-13. The steel rod has a radius of 25 mm. If it is subjected to a shear of  $V = 25$  kN, determine the maximum shear stress.



7-14. Determine the largest shear force  $V$  that the member can sustain if the allowance shear stress is  $\tau_{\text{allow}} = 8 \text{ MPa}$ .



**\*7-40** The beam is subjected to a shear of  $V = 800$  N. Determine the average shear stress developed in the nails along the sides  $A$  and  $B$  if the nails are spaced  $s = 100$  mm apart. Each nail has a diameter of 2 mm.



7-86. Determine the maximum shear stress acting at section  $a-a$  in the beam.

