

**\*18-26.** Determine the resultant internal loadings acting on the cross section through point D. Assume the reactions at the supports A and B are correct.



Shearing to the FBD of the cross beam, Fig. a.

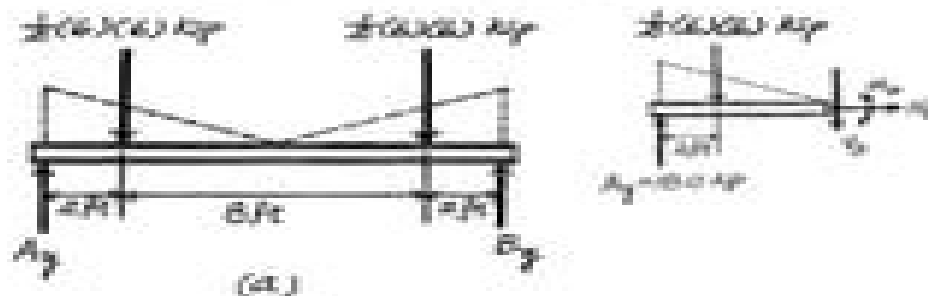
$$\sum F_x = 0 \quad \frac{1}{2}(4)(6)(2) = \frac{1}{2}(4)(6)(2) = 12(2) = 0 \quad A_x = 0 \text{ kN}$$

Shearing to the FBD of the segment, Fig. b.

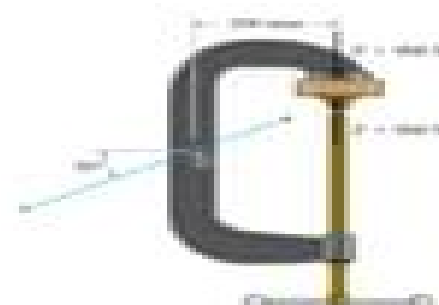
$$-\frac{1}{2}(2)(3) = 0 \quad N_D = 0 \quad \text{Ans.}$$

$$+\frac{1}{2}(2)(3) = 0 \quad 3(3) + \frac{1}{2}(4)(3)(2) - V_D = 0 \quad V_D = 9 \text{ kN} \quad \text{Ans.}$$

$$\sum M_D = 0 \quad M_D + 3(3)(1.5) = 0 \quad M_D = -13.5 \text{ kN}\cdot\text{m} \quad \text{Ans.}$$



**\*18-27.** The largest steel clamp weighs a total of  $P = 1000$  lb on the wooden block. Determine the resultant internal loadings acting on section a-a passing through point B.



**Internal Loadings:** Shearing to the free-body diagram of the section of the clamp shown in Fig. a.

$$\sum F_x = 0 \quad 1000 \cos 30^\circ - N_{a-a} = 0 \quad N_{a-a} = 775 \text{ lb} \quad \text{Ans.}$$

$$\sum F_y = 0 \quad V_{a-a} - 1000 \sin 30^\circ = 0 \quad V_{a-a} = 450 \text{ lb} \quad \text{Ans.}$$

$$\sum M = 0 \quad 1000(2) - M_{a-a} = 0 \quad M_{a-a} = 2000 \text{ lb}\cdot\text{in.} \quad \text{Ans.}$$



# Mechanics Of Materials Solutions Slideshow

**K Morrison**



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