

***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.



Referring to the FBD of the entire beam, Fig. a,

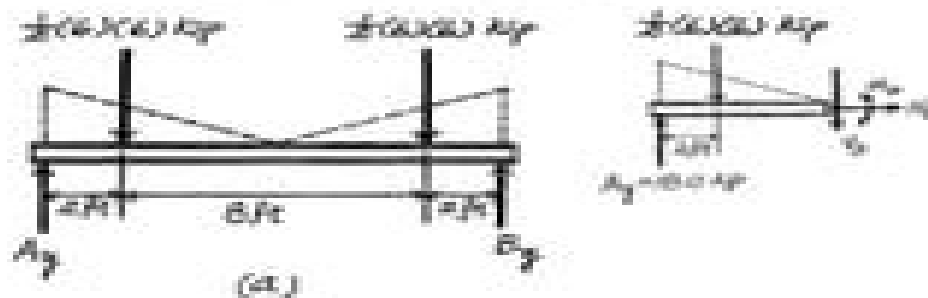
$$\sum C = \sum M_A = 0; \quad \frac{1}{2}(4)(6)(2) + \frac{1}{2}(4)(6)(6) - A_B(12) = 0; \quad A_B = 16.0 \text{ kN}$$

Referring to the FBD of the segment Fig. b,

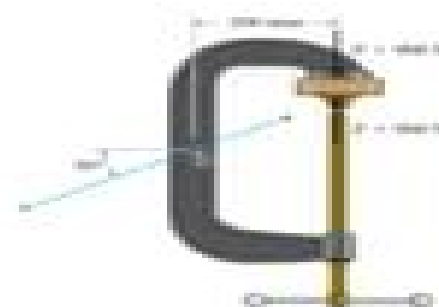
$$\sum F_x = 0; \quad N_D = 0 \quad \text{Ans.}$$

$$\sum F_y = 0; \quad 16.0 - \frac{1}{2}(4)(6) - V_D = 0; \quad V_D = 8.0 \text{ kN} \quad \text{Ans.}$$

$$\sum C = \sum M_D = 0; \quad M_D - 16.0(2) = 0; \quad M_D = 32.0 \text{ kN}\cdot\text{m} \quad \text{Ans.}$$



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



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

$$\sum F_x = 0; \quad 1000 \cos 30^\circ - B_{x, \text{int}} = 0; \quad B_{x, \text{int}} = 775 \text{ N} \quad \text{Ans.}$$

$$\sum F_y = 0; \quad V_{y, \text{int}} - 1000 \sin 30^\circ = 0; \quad V_{y, \text{int}} = 450 \text{ N} \quad \text{Ans.}$$

$$\sum C = \sum M_B = 0; \quad 1000(2) - M_{B, \text{int}} = 0; \quad M_{B, \text{int}} = 200 \text{ N}\cdot\text{m} \quad \text{Ans.}$$



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