

***18-26.** Determine the resultant internal loadings acting on the beam 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,

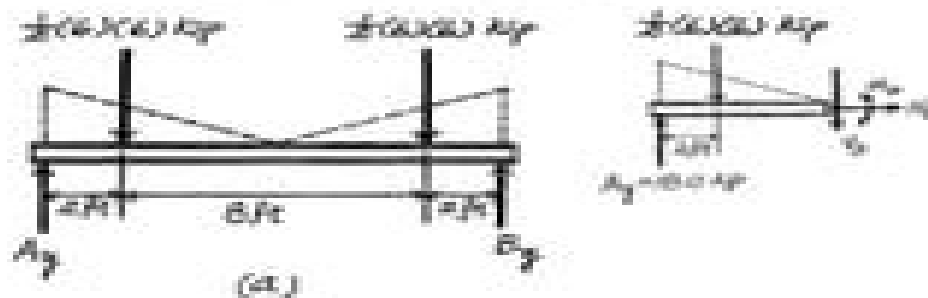
$$\sum C = \sum M_A = 0; \quad \frac{1}{2}(4)(6)(2) + \frac{1}{2}(4)(6)(10) - A_B(12) = 0; \quad A_B = 36.0 \text{ kN}$$

Referring to the FBD of the segment Fig. b,

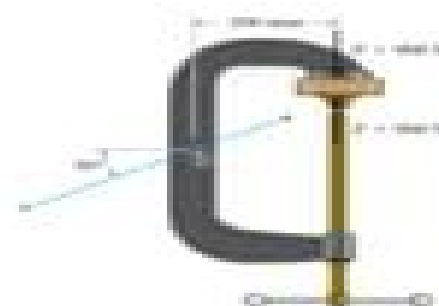
$$\sum F_x = 0; \quad N_D = 0 \quad \text{Ans.}$$

$$\sum F_y = 0; \quad 18.0 + \frac{1}{2}(4)(4) - V_D = 0; \quad V_D = 26.0 \text{ kN} \quad \text{Ans.}$$

$$\sum C = \sum M_D = 0; \quad M_D + 18.0(2) = 0; \quad M_D = -36.0 \text{ kN}\cdot\text{m} \quad \text{Ans.}$$



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



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

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

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

$$\sum C = \sum M_a = 0; \quad 1000(0.2) - M_{a-a} = 0; \quad M_{a-a} = 200 \text{ N}\cdot\text{m} \quad \text{Ans.}$$



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