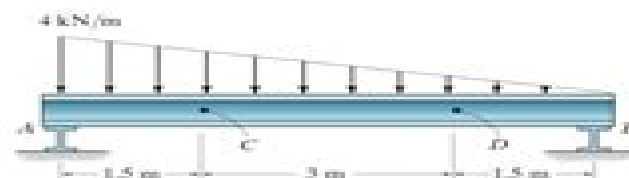


*1-8.

The beam supports the distributed load shown. Determine the resultant internal loadings acting on the cross section at point C . Assume the reactions at the supports A and B are vertical.



SOLUTION

Support Reactions: Referring to the FBD of the entire beam, Fig. a ,

$$\zeta + \Sigma M_A = 0; \quad B_y(6) - \frac{1}{2}(4)(6)(2) = 0 \quad B_y = 4.00 \text{ kN}$$

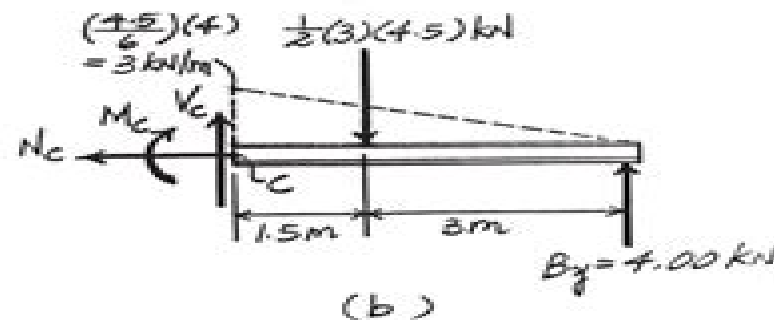
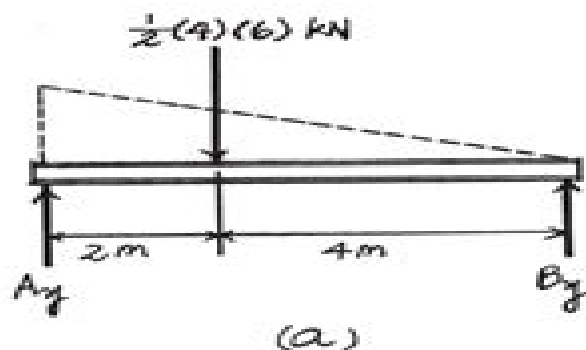
Internal Loadings: Referring to the FBD of the right segment of the beam sectioned through C , Fig. b ,

$$\rightarrow \Sigma F_x = 0; \quad N_C = 0 \quad \text{Ans.}$$

$$+\uparrow \Sigma F_y = 0; \quad V_C + 4.00 - \frac{1}{2}(3)(4.5) = 0 \quad V_C = 2.75 \text{ kN} \quad \text{Ans.}$$

$$\zeta + \Sigma M_C = 0; \quad 4.00(4.5) - \frac{1}{2}(3)(4.5)(1.5) - M_C = 0$$

$$M_C = 7.875 \text{ kN} \cdot \text{m} \quad \text{Ans.}$$



Ans.
 $N_C = 0$,
 $V_C = 2.75 \text{ kN}$,
 $M_C = 7.875 \text{ kN} \cdot \text{m}$

Solution Manual Beams 11th Edition

William C. Lyons, Gary J Plisga BS



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