

EXAMPLE 1.1

Determine the resultant internal loadings acting on the cross section at C of the cantilevered beam shown in Fig. 1-4a.

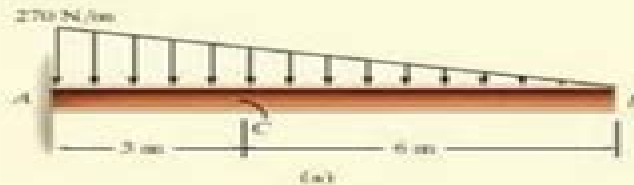


Fig. 1-4

SOLUTION

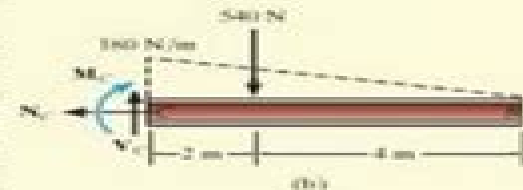
Support Reactions. The support reactions at A do not have to be determined if segment CB is considered.

Free-Body Diagram. The free-body diagram of segment CB is shown in Fig. 1-4b. It is important to keep the distributed loading on the segment until after the section is made. Only then should this loading be replaced by a single resultant force. Notice that the intensity of the distributed loading at C is found by proportion, i.e., from Fig. 1-4a, $w/6\text{ m} = (270\text{ N/m})/9\text{ m}$, $w = 180\text{ N/m}$. The magnitude of the resultant of the distributed load is equal to the area under the loading curve (triangle) and acts through the centroid of this area. Thus, $F = \frac{1}{2}(180\text{ N/m})(6\text{ m}) = 540\text{ N}$, which acts $\frac{1}{3}(6\text{ m}) = 2\text{ m}$ from C as shown in Fig. 1-4b.

Equations of Equilibrium. Applying the equations of equilibrium we have

$$\begin{aligned} \rightarrow \Sigma F_x &= 0; & -N_C &= 0 \\ & & N_C &= 0 & \text{Ans.} \\ +\uparrow \Sigma F_y &= 0; & V_C - 540\text{ N} &= 0 \\ & & V_C &= 540\text{ N} & \text{Ans.} \\ \curvearrowleft \Sigma M_C &= 0; & -M_C - 540\text{ N}(2\text{ m}) &= 0 \\ & & M_C &= -1080\text{ N}\cdot\text{m} & \text{Ans.} \end{aligned}$$

NOTE: The negative sign indicates that M_C acts in the opposite direction to that shown on the free-body diagram. Try solving this problem using segment AC , by first obtaining the support reactions at A , which are given in Fig. 1-4c.



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Jianjun Gao



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