

**EXAMPLE 1.1**

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

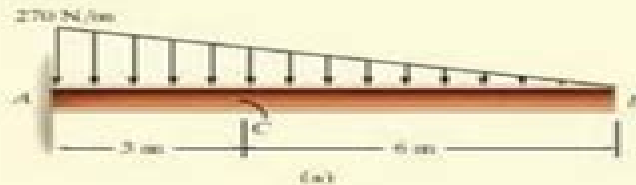


Fig. 1-4

**SOLUTION**

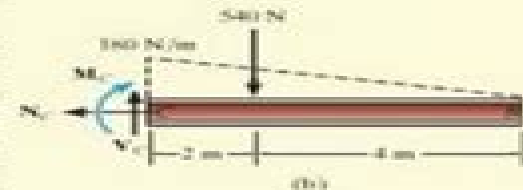
**Support Reactions.** The support reactions at  $A$  do not have to be determined if segment  $CB$  is considered.

**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

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

**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.



# Mechanics Of Materials Eighth Edition Chapter6

**M Carnoy**



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