#### EXAMPLE 1.1

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

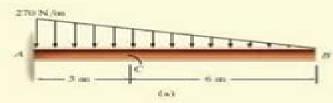


Fig. 1-4

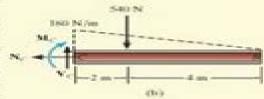
#### SOLUTION

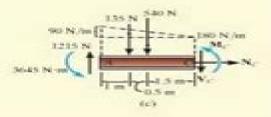
Support Reactions. The support reactions at A do not have to be determined if segment CB is considered.

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 m = (270 N/m)/9 m, w = 180 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  $\frac{1}{2}(6 \text{ m}) = 2 \text{ m}$  from C as shown in Fig. 1–4b.

Equations of Equilibrium. Applying the equations of equilibrium we have

**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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