
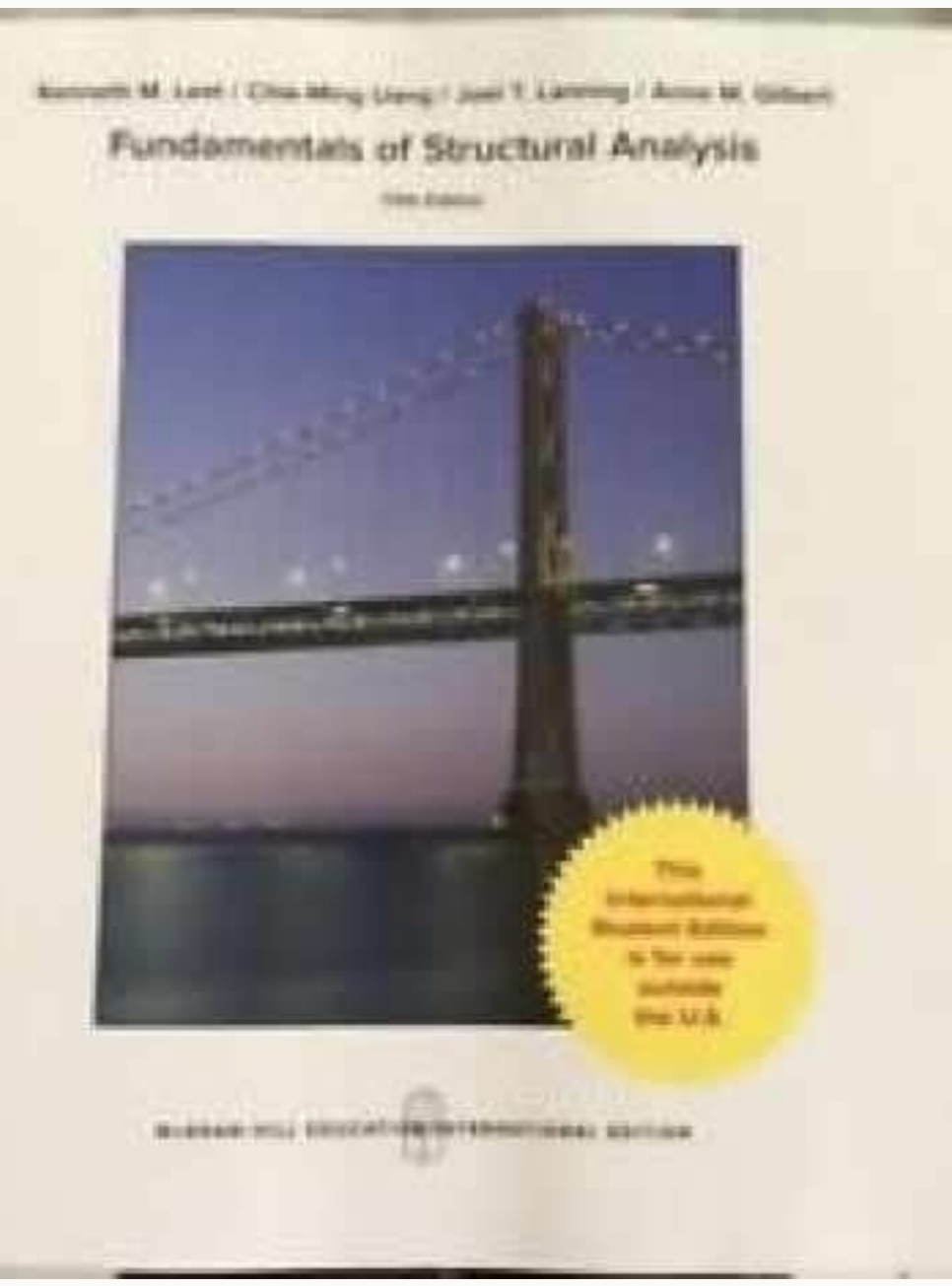


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**EXAMPLE 1.1**

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

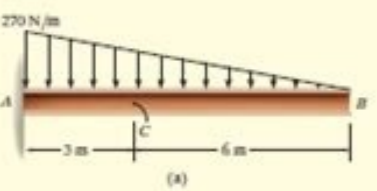
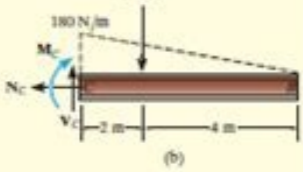


Fig. 1-4

**SOLUTION**

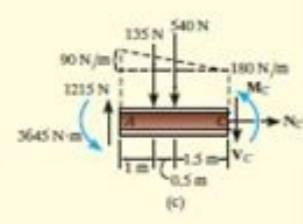
**Support Reactions.** The support reactions at A do not have to be determined if segment CB is considered.

**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.

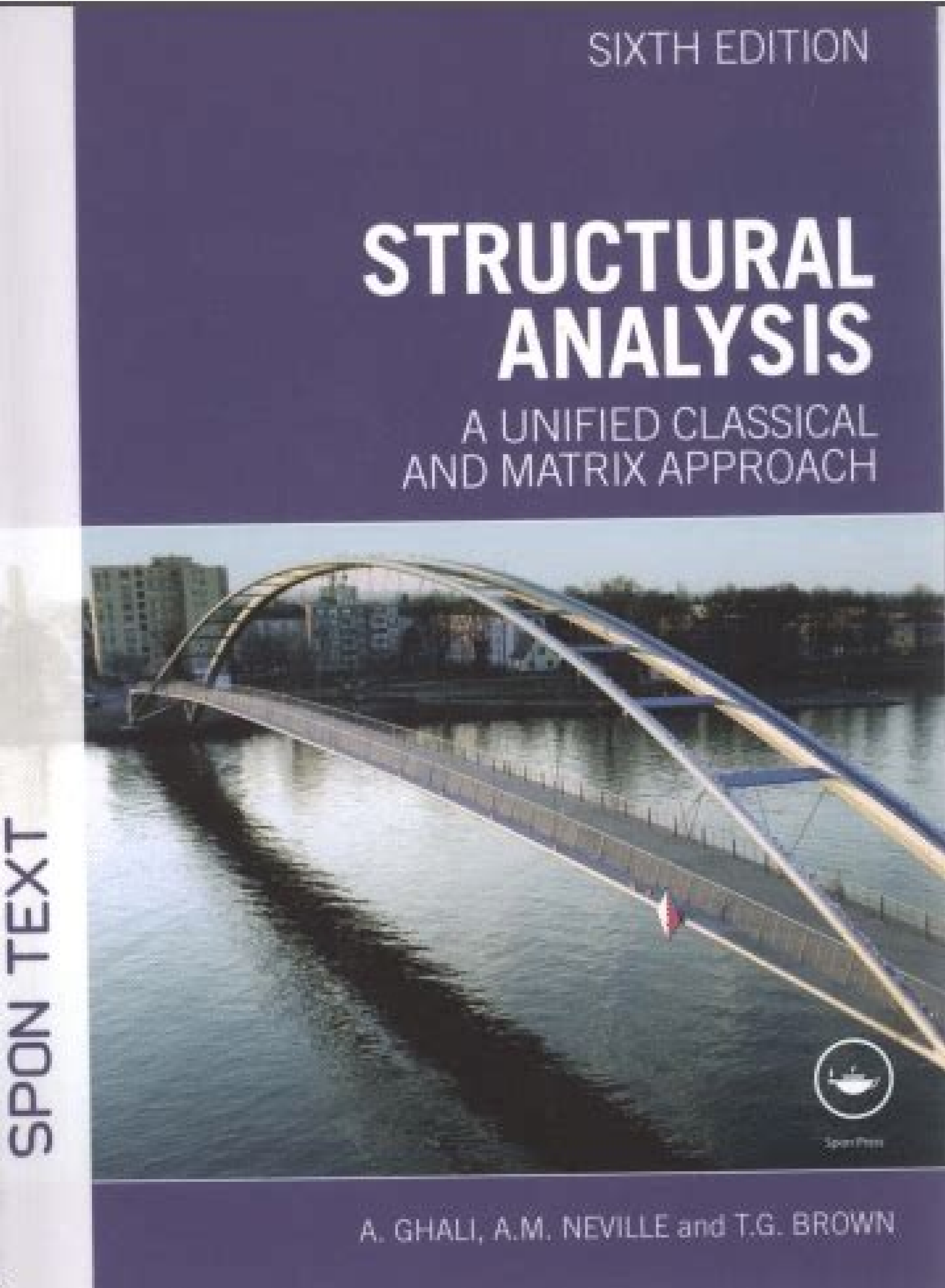


**Equations of Equilibrium.** Applying the equations of equilibrium we have

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



**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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