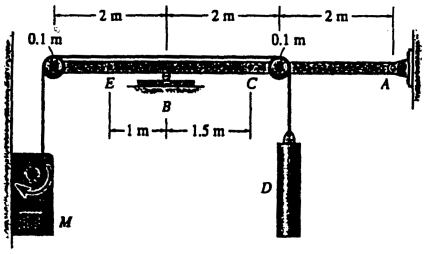
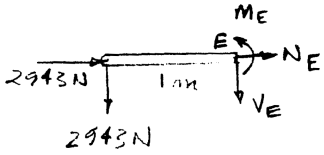
1–14 Determine the resultant internal loadings acting on the cross section through point E of the beam in Prob. 1–13.



$\overset{+}{\rightarrow} \Sigma F_x = 0; \quad N_E + 2943 = 0$

$N_E = -2.94\ \text{kN}$ **Ans**



$+\uparrow \Sigma F_y = 0; \quad -2943 - V_E = 0$

$V_E = -2.94\ \text{kN}$ **Ans**

$\zeta + \Sigma M_E = 0; \quad M_E + 2943\,(1) = 0$

$M_E = -2.94\ \text{kN} \cdot \text{m}$ **Ans**