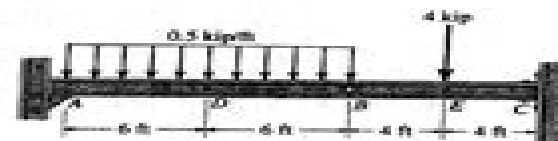


7-33. Determine the internal normal force, shear force, and bending moment in the beam at points *D* and *E*. Point *E* is just to the right of the 4-kip load. Assume *A* is a roller support, the splice at *B* is a pin, and *C* is a fixed support.



**Support Reactions :** Support reactions at *C* need not be computed for this case. From FBD (a),

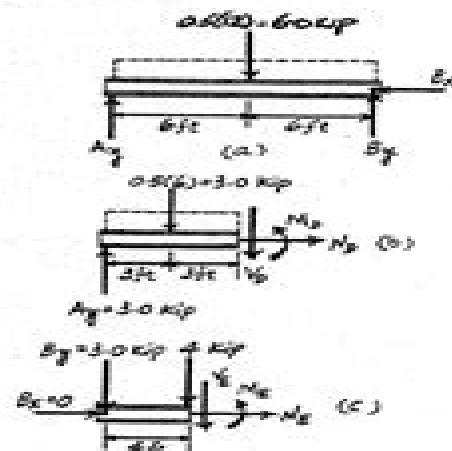
$$\begin{aligned} \sum M_B = 0; & \quad 6.00(6) - A_y(12) = 0 & A_y = 3.00 \text{ kN} \\ + \uparrow \sum F_y = 0; & \quad B_y + 3.00 - 6.00 = 0 & B_y = 3.00 \text{ kN} \\ \rightarrow \sum F_x = 0 & & B_x = 0 \end{aligned}$$

**Internal Forces :** Applying the equations of equilibrium to segment *AD* [FBD (b)], we have

$$\begin{aligned} \rightarrow \sum F_x = 0; & \quad N_D = 0 & \text{Ans} \\ + \uparrow \sum F_y = 0; & \quad 3.00 - 3.00 - V_D = 0 & V_D = 0 & \text{Ans} \\ \sum M_D = 0; & \quad M_D - 3.00(3) = 0 & M_D = 9.00 \text{ kN} \cdot \text{m} & \text{Ans} \end{aligned}$$

Applying the equations of equilibrium to segment *BE* [FBD (c)], we have

$$\begin{aligned} \rightarrow \sum F_x = 0; & \quad N_E = 0 & \text{Ans} \\ + \uparrow \sum F_y = 0; & \quad -3.00 - 4 - V_E = 0 & V_E = -7.00 \text{ kN} & \text{Ans} \\ \sum M_E = 0; & \quad M_E + 3.00(4) = 0 & M_E = -12.0 \text{ kN} \cdot \text{m} & \text{Ans} \end{aligned}$$



# Hibbeler Statics Chapter 7 Edition Solutions

**Steven Liang, Albert J. Shih**



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