

1–7.

Determine the resultant internal loadings at cross sections at points *E* and *F* on the assembly.

SOLUTION

Support Reactions: Member *BC* is the two-force member.

$$\zeta + \sum M_A = 0; \quad \frac{4}{5} F_{BC}(1.5) - 1.875(0.75) = 0$$

$$F_{BC} = 1.1719 \text{ kN}$$

$$+\uparrow \sum F_y = 0; \quad A_y + \frac{4}{5}(1.1719) - 1.875 = 0$$

$$A_y = 0.9375 \text{ kN}$$

$$\pm \sum F_x = 0; \quad \frac{3}{5}(1.1719) - A_x = 0$$

$$A_x = 0.7031 \text{ kN}$$

Equations of Equilibrium: For point *F*

$$+\nearrow \sum F_x = 0; \quad N_F - 1.1719 = 0$$

$$N_F = 1.17 \text{ kN}$$

$$\curvearrowleft \sum F_y = 0; \quad V_F = 0$$

$$\zeta + \sum M_F = 0; \quad M_F = 0$$

Equations of Equilibrium: For point *E*

$$\pm \sum F_x = 0; \quad N_E - \frac{3}{5}(1.1719) = 0$$

$$N_E = 0.703 \text{ kN}$$

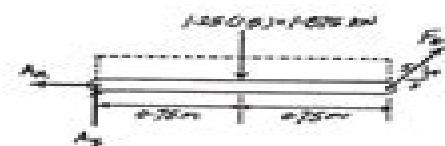
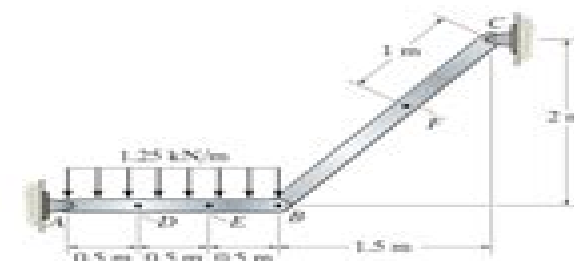
$$+\uparrow \sum F_y = 0; \quad V_E - 0.625 + \frac{4}{5}(1.1719) = 0$$

$$V_E = -0.3125 \text{ kN}$$

$$\zeta + \sum M_E = 0; \quad -M_E - 0.625(0.25) + \frac{4}{5}(1.1719)(0.5) = 0$$

$$M_E = 0.3125 \text{ kN} \cdot \text{m}$$

Negative sign indicates that V_E acts in the opposite direction to that shown on FBD.



Ans.

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Ans.

$$N_F = 1.17 \text{ kN},$$

$$V_F = 0,$$

$$M_F = 0,$$

$$N_E = 0.703 \text{ kN},$$

$$V_E = -0.3125 \text{ kN},$$

$$M_E = 0.3125 \text{ kN} \cdot \text{m}$$

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