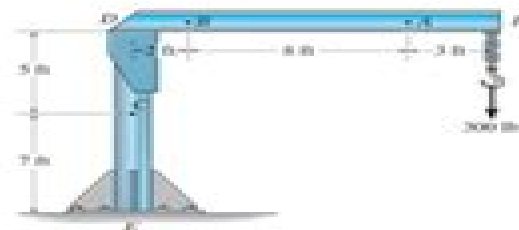


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1–10. The boom DEF of the jib crane and the column DJE have a uniform weight of 50 lb/ft. If the hoist and load weigh 300 lb, determine the resultant internal loadings in the crane on cross sections through points A , B , and C .



Equations of Equilibrium: For point A

$$+\circlearrowleft \sum F_x = 0; \quad N_A = 0$$

Ans.

$$+\uparrow \sum F_y = 0; \quad V_A - 150 - 300 = 0$$

Ans.

$$V_A = 450 \text{ lb}$$

$$C + \sum M_A = 0; \quad -M_A - 150(1.5) - 300(3) = 0$$

Ans.

$$M_A = -1125 \text{ lb}\cdot\text{ft} = -1.125 \text{ kip}\cdot\text{ft}$$

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

Equations of Equilibrium: For point B

$$+\circlearrowleft \sum F_x = 0; \quad N_B = 0$$

Ans.

$$+\uparrow \sum F_y = 0; \quad V_B - 550 - 300 = 0$$

Ans.

$$V_B = 850 \text{ lb}$$

$$C + \sum M_B = 0; \quad -M_B - 550(5.5) - 300(11) = 0$$

Ans.

$$M_B = -6325 \text{ lb}\cdot\text{ft} = -6.325 \text{ kip}\cdot\text{ft}$$

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

Equations of Equilibrium: For point C

$$+\circlearrowleft \sum F_x = 0; \quad N_C = 0$$

Ans.

$$+\uparrow \sum F_y = 0; \quad -N_C - 250 - 650 - 300 = 0$$

Ans.

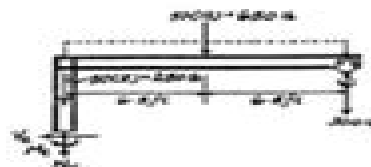
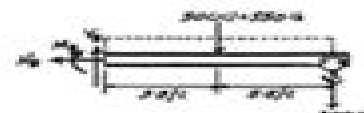
$$N_C = -1200 \text{ lb} = -1.20 \text{ kip}$$

$$C + \sum M_C = 0; \quad -M_C - 650(6.5) - 300(13) = 0$$

Ans.

$$M_C = -8125 \text{ lb}\cdot\text{ft} = -8.125 \text{ kip}\cdot\text{ft}$$

Negative signs indicate that N_C and M_C act in the opposite direction to that shown on FBD.



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**Ferdinand Pierre Beer, Elwood Russell
Johnston, John T. DeWolf**



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