

1-6. Determine the normal force, shear force, and moment at a section through point C . Take $P = 8 \text{ kN}$.

Support Reactions:

$$\zeta + \Sigma M_A = 0; \quad 8(2.25) - T(0.6) = 0 \quad T = 30.0 \text{ kN}$$

$$\rightarrow \Sigma F_x = 0; \quad 30.0 - A_x = 0 \quad A_x = 30.0 \text{ kN}$$

$$+\uparrow \Sigma F_y = 0; \quad A_y - 8 = 0 \quad A_y = 8.00 \text{ kN}$$

Equations of Equilibrium: For point C

$$\rightarrow \Sigma F_x = 0; \quad -N_C - 30.0 = 0$$

$$N_C = -30.0 \text{ kN}$$

$$+\uparrow \Sigma F_y = 0; \quad V_C + 8.00 = 0$$

$$V_C = -8.00 \text{ kN}$$

$$\zeta + \Sigma M_C = 0; \quad 8.00(0.75) - M_C = 0$$

$$M_C = 6.00 \text{ kN} \cdot \text{m}$$

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



Ans.

Ans.

Ans.



1-7. The cable will fail when subjected to a tension of 2 kN. Determine the largest vertical load P the frame will support and calculate the internal normal force, shear force, and moment at section C .

Support Reactions:

$$\zeta + \Sigma M_A = 0; \quad 2(0.6) - T(0.6) = 0 \quad T = 2.00 \text{ kN}$$

$$\rightarrow \Sigma F_x = 0; \quad 2.00 - A_x = 0 \quad A_x = 2.00 \text{ kN}$$

$$\uparrow \Sigma F_y = 0; \quad A_y - 2 = 0 \quad A_y = 2.00 \text{ kN}$$

$$\rightarrow \Sigma F_x = 0; \quad A_x - 2.00 = 0 \quad A_x = 2.00 \text{ kN}$$

Equations of Equilibrium: For point C

$$\rightarrow \Sigma F_x = 0; \quad -N_C - 2.00 = 0$$

$$N_C = -2.00 \text{ kN}$$

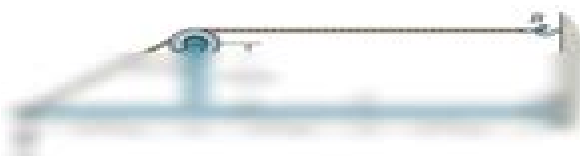
$$\uparrow \Sigma F_y = 0; \quad V_C + 2.00 = 0$$

$$V_C = -2.00 \text{ kN}$$

$$\zeta + \Sigma M_C = 0; \quad 2.00(0.75) - M_C = 0$$

$$M_C = 1.50 \text{ kN} \cdot \text{m}$$

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



Ans.

Ans.

Ans.

Ans.

Mechanics Of Materials Hibbeler 8th Edition Solution Manual

Rosina Ehmann



Mechanics Of Materials Hibbeler 8th Edition Solution Manual:

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