

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

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

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

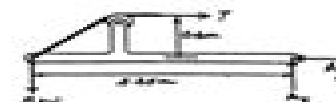
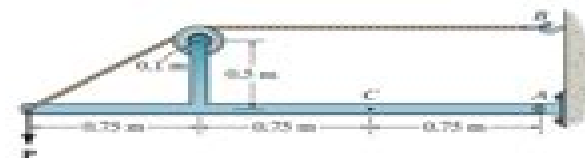
$$+\uparrow \Sigma F_y = 0; \quad V_C + 8.00 = 0$$

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

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

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

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 point C .

Support Reactions:

$$\zeta + \Sigma M_A = 0; \quad 2(0.6) - P(2.25) = 0 \quad P = 0.889 \text{ kN}$$

$$\rightarrow \Sigma F_x = 0; \quad A_x = 0$$

$$\uparrow \Sigma F_y = 0; \quad A_y - 2 + P = 0 \quad A_y = 1.111 \text{ kN}$$

$$\rightarrow \Sigma F_x = 0; \quad B_x - 1.111 + P = 0 \quad B_x = 0.222 \text{ kN}$$

Equations of Equilibrium: For point C

$$\rightarrow \Sigma F_x = 0; \quad -N_C - 0.222 = 0$$

$$N_C = -0.222 \text{ kN}$$

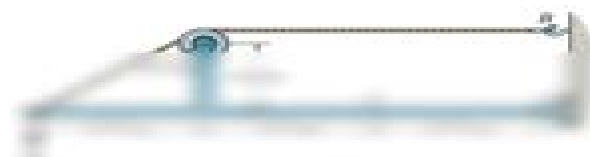
$$+\uparrow \Sigma F_y = 0; \quad V_C + 1.111 = 0$$

$$V_C = -1.111 \text{ kN}$$

$$\zeta + \Sigma M_C = 0; \quad 1.111(0.75) - M_C = 0$$

$$M_C = 0.833 \text{ kN} \cdot \text{m}$$

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



Ans.

Ans.

Ans.

Ans.

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Annelies Wilder-Smith



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