

**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:**

$$\zeta + \Sigma M_A = 0; \quad 2(0.6) - P(2.25) = 0$$

$$P = 0.533 \text{ kN}$$

$$\rightarrow \Sigma F_x = 0; \quad 2 - A_x = 0 \quad A_x = 2 \text{ kN}$$

$$+\uparrow \Sigma F_y = 0; \quad A_y - 0.533 = 0 \quad A_y = 0.533 \text{ kN}$$

**Equations of Equilibrium:**

$$\rightarrow \Sigma F_x = 0; \quad -N_C - 2 = 0$$

$$N_C = -2 \text{ kN}$$

$$+\uparrow \Sigma F_y = 0; \quad V_C - 0.533 = 0$$

$$V_C = 0.533 \text{ kN}$$

$$\zeta + \Sigma M_C = 0; \quad 0.533(0.75) - M_C = 0$$

$$M_C = 0.4 \text{ kN} \cdot \text{m}$$

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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**Marcel A. Müller**



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