

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

Support Reactions:

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

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

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

Equations of Equilibrium: For point C

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

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

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

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

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

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

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:

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

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

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

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

Equations of Equilibrium:

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

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

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

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

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

$$M_C = -0.400 \text{ kN} \cdot \text{m}$$

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



Ans.

Ans.

Ans.

Ans.

Hibbeler 8th Edition Solution Manual

R. C. Hibbeler, S. C. Fan



Hibbeler 8th Edition Solution Manual:

This book delves into Hibbeler 8th Edition Solution Manual. Hibbeler 8th Edition Solution Manual is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Hibbeler 8th Edition Solution Manual, encompassing both the fundamentals and more intricate discussions.

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