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

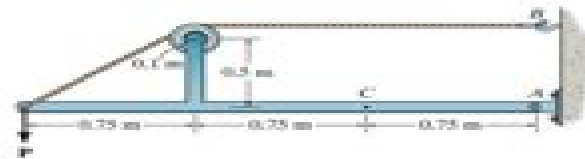
Support Reactions:

$$\begin{aligned} \curvearrowleft + \sum M_A = 0: & \quad 8(2.25) - T(0.6) = 0 & \quad T = 30.0 \text{ kN} \\ \rightarrow \sum F_x = 0: & \quad 30.0 - A_x = 0 & \quad A_x = 30.0 \text{ kN} \\ + \uparrow \sum F_y = 0: & \quad A_y - 8 = 0 & \quad A_y = 8.00 \text{ kN} \end{aligned}$$

Equations of Equilibrium: For point C

$$\begin{aligned} \rightarrow \sum F_x = 0: & \quad -N_C - 30.0 = 0 & \quad N_C = -30.0 \text{ kN} \\ + \uparrow \sum F_y = 0: & \quad V_C + 8.00 = 0 & \quad V_C = -8.00 \text{ kN} \\ \curvearrowleft + \sum M_C = 0: & \quad 8.00(0.75) - M_C = 0 & \quad M_C = 6.00 \text{ kN}\cdot\text{m} \end{aligned}$$

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



Ans.

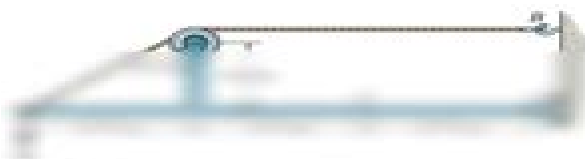


Ans.



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 indicate the internal normal force, shear force, and moment at point *C*.



Ans.



Ans.



Ans.

Mechanics Of Materials Hibbler Solution Manual 8th

JA Banks



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