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1–6. Determine the normal force, shear force, and moment at a section through point C. Take P = 8 kN.

Support Reactions:

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

$$\Rightarrow \Sigma F_x = 0;$$
 $30.0 - A_x = 0$ $A_x = 30.0 \text{ kN}$
 $+ \uparrow \Sigma F_y = 0;$ $A_y - 8 = 0$ $A_y = 8.00 \text{ kN}$

Equations of Equilibrium: For point C

$$\stackrel{\circ}{\longrightarrow} \Sigma F_s = 0;$$
 $-N_C - 30.0 = 0$

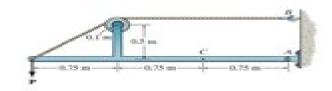
$$N_{\rm C} = -30.0 \, \rm kN$$

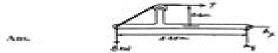
$$+\uparrow \Sigma F_s = 0;$$
 $V_C + 8.00 = 0$

$$V_{\rm C} = -8.00 \, {\rm kN}$$

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

$$M_C = 6.00 \, \mathrm{kN \cdot m}$$





Asses

Autom.



Negative signs indicate that $N_{\mathcal{C}}$ and $V_{\mathcal{C}}$ act in the opposite direction to that shown on FBD.

The cable will fail when subjected to a tension of 2 kN.
Determine the largest vertical load P the frame will support



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James M. Gere, Stephen P. Timoshenko

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