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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

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

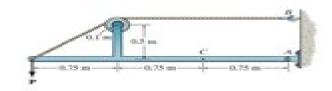
$$N_{\rm C} = -30.0 \, \rm kN$$

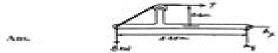
$$+\uparrow \Sigma F_s = 0;$$
  $V_C + 8.00 = 0$ 

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

$$\zeta + \Sigma M_C = 0;$$
 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.

1-7. The cable will fail when subjected to a tension of 2 kN. Determine the largest vertical load P the frame will support



# <u>Mechanics Of Materials Hibbeler 8th Edition Solution</u> <u>Manual Chapter 6</u>

R. C. Hibbeler

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