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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

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

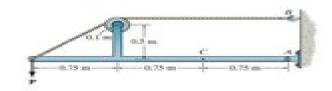
$$N_{\rm C} = -30.0 \, \rm kN$$

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

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

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



# **Mechanics Of Materials 8th Edition Rc Hibbeler Solution Manual**

R. C. Hibbeler

# **Mechanics Of Materials 8th Edition Rc Hibbeler Solution Manual:**

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Hibbeler,2023-07-18 Mechanics of Materials excels in providing a clear and thorough presentation of the theory and application of mechanics of materials principles Drawing upon his decades of classroom experience and his knowledge of how students learn Professor Hibbeler provides highly visual methodical applications to help you conceptualize and master difficult concepts A variety of problem types stress realistic situations encountered in the field with several levels of difficulty to give you the practice you need to excel in your courses and career The 11th Edition in SI units features approximately 30% new problems which involve applications to many different fields of engineering *Mechanics and Materials for Design* Nathan H. Cook,1984 *Advanced Mechanics of Materials, Solutions Manual* Robert Davis Cook,1985

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