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- 8-6.** Determine the normal force, shear force, and moment at a section through point C. Take $F = 30 \text{ kN}$.

Support Reactions:

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

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

$$\sum F_y = 0: \quad A_y - 8 = 0 \quad A_y = 8.00 \text{ kN}$$

Equations of Equilibrium: For point C

$$\sum F_x = 0: \quad -N_C = 30.0 = 0$$

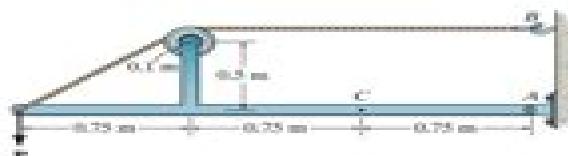
$$N_C = -30.0 \text{ kN}$$

$$\sum F_y = 0: \quad V_C + 8.00 = 0$$

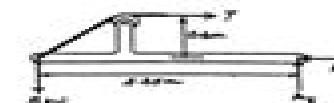
$$V_C = -8.00 \text{ kN}$$

$$\sum M_C = 0: \quad 8(0)(0.75) - M_C = 0$$

$$M_C = 0.00 \text{ kN} \cdot \text{m}$$



Ans.



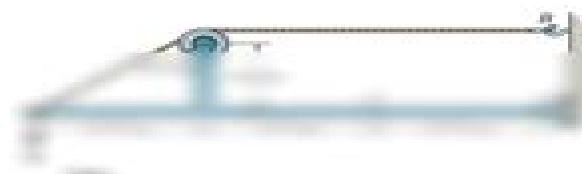
Ans.



Ans.

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

- 8-7.** The cable will fail when subjected to a tension of 2 kN. Determine the largest vertical load F the frame will support and calculate the internal moment force about point C.



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AW Chickering

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Mechanical Engineers' Handbook, Volume 1 Myer Kutz, 2015-03-02 Full coverage of materials and mechanical design in engineering. Mechanical Engineers Handbook Fourth Edition provides a quick guide to specialized areas you may encounter in your work giving you access to the basics of each and pointing you toward trusted resources for further reading if needed. The accessible information inside offers discussions examples and analyses of the topics covered. This first volume covers materials and mechanical design giving you accessible and in depth access to the most common topics you'll encounter in the discipline carbon and alloy steels stainless steels aluminum alloys copper and copper alloys titanium alloys for design nickel and its alloys magnesium and its alloys superalloys for design composite materials smart materials electronic materials viscosity measurement and much more. Presents comprehensive coverage of materials and mechanical design. Offers the option of being purchased as a four book set or as single books depending on your needs. Comes in a subscription format through the Wiley Online Library and in electronic and custom formats. Engineers at all levels of industry government or private consulting practice will find Mechanical Engineers Handbook Volume 1 a great resource they'll turn to repeatedly as a reference on the basics of materials and mechanical design.

Applied Mechanics Reviews, 1985
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Manual of Geotechnical Engineering Volume 2 Hilary Skinner,D G Toll,Kelvin Higgins,Mike Brown,John Burland,2023-11-17 ICE Manual of Geotechnical Engineering Second edition brings together an exceptional breadth of material to provide a definitive reference on geotechnical engineering solutions Written and edited by leading specialists each chapter provides contemporary guidance and best practice knowledge for civil and structural engineers in the field

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