

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

Support Reactions:

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

$$\rightarrow \Sigma F_x = 0; \quad 30.0 - A_x = 0 \quad A_x = 30.0 \text{ kN}$$

$$+\uparrow \Sigma F_y = 0; \quad A_y - 8 = 0 \quad A_y = 8.00 \text{ kN}$$

Equations of Equilibrium: For point C

$$\rightarrow \Sigma F_x = 0; \quad -N_C - 30.0 = 0$$

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

$$+\uparrow \Sigma F_y = 0; \quad V_C + 8.00 = 0$$

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

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

$$M_C = 6.00 \text{ kN} \cdot \text{m}$$

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



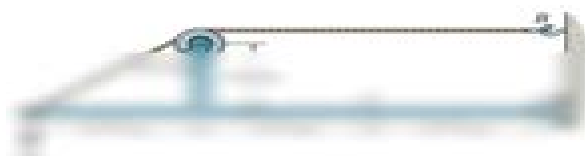
Ans.

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 calculate the internal normal force, shear force, and



Ans.

Ans.

Ans.

Ans.

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Mechanics of Materials – Formulas and Problems Dietmar Gross, Wolfgang Ehlers, Peter Wriggers, Jörg Schröder, Ralf Müller, 2016-11-25 This book contains the most important formulas and more than 140 completely solved problems from Mechanics of Materials and Hydrostatics It provides engineering students material to improve their skills and helps to gain experience in solving engineering problems Particular emphasis is placed on finding the solution path and formulating the basic equations Topics include Stress Strain Hooke's Law Tension and Compression in Bars Bending of Beams Torsion Energy Methods Buckling of Bars Hydrostatics **Intermediate Solid Mechanics** Marko V. Lubarda, Vlado A.

Lubarda, 2020-01-09 Based on class tested material this concise yet comprehensive treatment of the fundamentals of solid mechanics is ideal for those taking single semester courses on the subject It provides interdisciplinary coverage of the key topics combining solid mechanics with structural design applications mechanical behavior of materials and the finite element method Part I covers basic theory including the analysis of stress and strain Hooke's law and the formulation of boundary value problems in Cartesian and cylindrical coordinates Part II covers applications from solving boundary value problems to energy methods and failure criteria two dimensional plane stress and strain problems antiplane shear contact problems and much more With a wealth of solved examples assigned exercises and 130 homework problems and a solutions manual available online this is ideal for senior undergraduates studying solid mechanics and graduates taking introductory courses in solid mechanics and theory of elasticity across aerospace civil and mechanical engineering and materials science

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