

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 moment at point C .

Support Reactions:

$$\zeta + \Sigma M_A = 0; \quad 2(0.6) - P(2.25) = 0 \quad P = 0.533 \text{ kN}$$

$$\rightarrow \Sigma F_x = 0; \quad 2 - A_x = 0 \quad A_x = 2 \text{ kN}$$

$$\uparrow \Sigma F_y = 0; \quad A_y - 2 = 0 \quad A_y = 2 \text{ kN}$$

$$\rightarrow \Sigma F_x = 0; \quad A_x - 2 = 0 \quad A_x = 2 \text{ kN}$$

Equations of Equilibrium: For point C

$$\rightarrow \Sigma F_x = 0; \quad -N_C - 2 = 0$$

$$N_C = -2 \text{ kN}$$

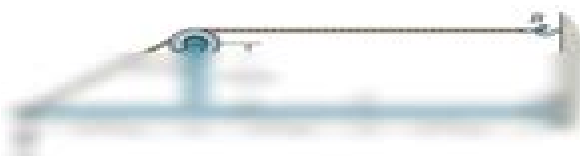
$$\uparrow \Sigma F_y = 0; \quad V_C + 0.533 = 0$$

$$V_C = -0.533 \text{ kN}$$

$$\zeta + \Sigma M_C = 0; \quad 0.533(0.75) - M_C = 0$$

$$M_C = 0.4 \text{ kN} \cdot \text{m}$$

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



Ans.

Ans.

Ans.

Ans.

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R. C. Hibbeler



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Table of Contents Mechanics Of Materials Hibbeler Solutions Manual 8th Edition

1. Understanding the eBook Mechanics Of Materials Hibbeler Solutions Manual 8th Edition
 - The Rise of Digital Reading Mechanics Of Materials Hibbeler Solutions Manual 8th Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanics Of Materials Hibbeler Solutions Manual 8th Edition
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mechanics Of Materials Hibbeler Solutions Manual 8th Edition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanics Of Materials Hibbeler Solutions Manual 8th Edition
 - Personalized Recommendations
 - Mechanics Of Materials Hibbeler Solutions Manual 8th Edition User Reviews and Ratings
 - Mechanics Of Materials Hibbeler Solutions Manual 8th Edition and Bestseller Lists
5. Accessing Mechanics Of Materials Hibbeler Solutions Manual 8th Edition Free and Paid eBooks
 - Mechanics Of Materials Hibbeler Solutions Manual 8th Edition Public Domain eBooks
 - Mechanics Of Materials Hibbeler Solutions Manual 8th Edition eBook Subscription Services

- Mechanics Of Materials Hibbeler Solutions Manual 8th Edition Budget-Friendly Options
- 6. Navigating Mechanics Of Materials Hibbeler Solutions Manual 8th Edition eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanics Of Materials Hibbeler Solutions Manual 8th Edition Compatibility with Devices
 - Mechanics Of Materials Hibbeler Solutions Manual 8th Edition Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanics Of Materials Hibbeler Solutions Manual 8th Edition
 - Highlighting and Note-Taking Mechanics Of Materials Hibbeler Solutions Manual 8th Edition
 - Interactive Elements Mechanics Of Materials Hibbeler Solutions Manual 8th Edition
- 8. Staying Engaged with Mechanics Of Materials Hibbeler Solutions Manual 8th Edition
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanics Of Materials Hibbeler Solutions Manual 8th Edition
- 9. Balancing eBooks and Physical Books Mechanics Of Materials Hibbeler Solutions Manual 8th Edition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanics Of Materials Hibbeler Solutions Manual 8th Edition
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanics Of Materials Hibbeler Solutions Manual 8th Edition
 - Setting Reading Goals Mechanics Of Materials Hibbeler Solutions Manual 8th Edition
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanics Of Materials Hibbeler Solutions Manual 8th Edition
 - Fact-Checking eBook Content of Mechanics Of Materials Hibbeler Solutions Manual 8th Edition
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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