

5-75. If the cable can be subjected to a maximum tension of 300 lb, determine the maximum force P which may be applied to the plate. Compute the x , y , z components of reaction at the hinge A for this loading.

$$\Sigma M_A = 0; \quad 3(P) - 300(9) = 0$$

$$P = 900 \text{ lb} \quad \text{Ans}$$

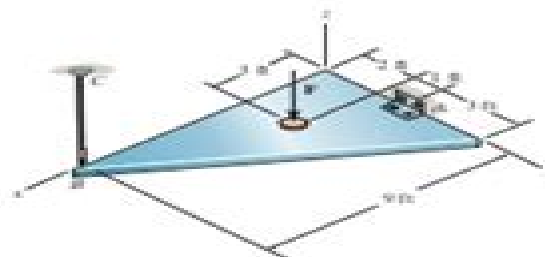
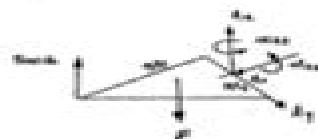
$$\Sigma F_x = 0; \quad A_x = 0 \quad \text{Ans}$$

$$\Sigma F_y = 0; \quad A_y = 0 \quad \text{Ans}$$

$$\Sigma F_z = 0; \quad -900 + 300 + A_z = 0; \quad A_z = 600 \text{ lb} \quad \text{Ans}$$

$$\Sigma M_{x_0} = 0; \quad M_{x_0} + 900(1) - 3(300) = 0; \quad M_{x_0} = 0 \quad \text{Ans}$$

$$\Sigma M_{y_0} = 0; \quad M_{y_0} = 0 \quad \text{Ans}$$



5-76. The member is supported by a pin at A and a cable BC . If the load at D is 300 lb, determine the x , y , z components of reaction at the pin A and the tension in cable BC .

$$T_{BC} = T_{BC} \left(\frac{3}{5}i + \frac{4}{5}j + \frac{3}{5}k \right)$$

$$\Sigma F_x = 0; \quad A_x + \left(\frac{3}{5} \right) T_{BC} = 0$$

$$\Sigma F_y = 0; \quad A_y + \left(\frac{4}{5} \right) T_{BC} = 0$$

$$\Sigma F_z = 0; \quad A_z - 300 + \left(\frac{3}{5} \right) T_{BC} = 0$$

$$\Sigma M_A = 0; \quad -300(3) + \left(\frac{3}{5} \right) T_{BC} (3) = 0$$

$$\Sigma M_x = 0; \quad M_{Ax} - 300(3) + \left(\frac{3}{5} \right) T_{BC} (3) = 0$$

$$\Sigma M_y = 0; \quad M_{Ay} - \left(\frac{4}{5} \right) T_{BC} (3) + \left(\frac{3}{5} \right) T_{BC} (3) = 0$$

Solving,

$$T_{BC} = 1.00 \text{ kip} \quad \text{Ans}$$

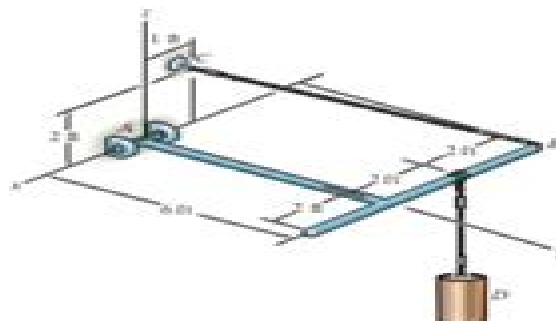
$$A_x = -450 \text{ lb} \quad \text{Ans}$$

$$A_y = 900 \text{ lb} \quad \text{Ans}$$

$$A_z = 0 \quad \text{Ans}$$

$$M_{Ax} = -450 \text{ lb} \cdot \text{ft} \quad \text{Ans}$$

$$M_{Ay} = -900 \text{ lb} \cdot \text{ft} \quad \text{Ans}$$



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These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

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Table of Contents Engineering Mechanics Statics 11th Edition Solutions Manual

1. Understanding the eBook Engineering Mechanics Statics 11th Edition Solutions Manual
 - The Rise of Digital Reading Engineering Mechanics Statics 11th Edition Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Mechanics Statics 11th Edition Solutions Manual
 - 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 Engineering Mechanics Statics 11th Edition Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Mechanics Statics 11th Edition Solutions Manual
 - Personalized Recommendations
 - Engineering Mechanics Statics 11th Edition Solutions Manual User Reviews and Ratings
 - Engineering Mechanics Statics 11th Edition Solutions Manual and Bestseller Lists
5. Accessing Engineering Mechanics Statics 11th Edition Solutions Manual Free and Paid eBooks
 - Engineering Mechanics Statics 11th Edition Solutions Manual Public Domain eBooks
 - Engineering Mechanics Statics 11th Edition Solutions Manual eBook Subscription Services
 - Engineering Mechanics Statics 11th Edition Solutions Manual Budget-Friendly Options
6. Navigating Engineering Mechanics Statics 11th Edition Solutions Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Engineering Mechanics Statics 11th Edition Solutions Manual Compatibility with Devices
 - Engineering Mechanics Statics 11th Edition Solutions Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Engineering Mechanics Statics 11th Edition Solutions Manual
 - Highlighting and Note-Taking Engineering Mechanics Statics 11th Edition Solutions Manual
 - Interactive Elements Engineering Mechanics Statics 11th Edition Solutions Manual
8. Staying Engaged with Engineering Mechanics Statics 11th Edition Solutions Manual

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Engineering Mechanics Statics 11th Edition Solutions Manual
- 9. Balancing eBooks and Physical Books Engineering Mechanics Statics 11th Edition Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engineering Mechanics Statics 11th Edition Solutions Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Engineering Mechanics Statics 11th Edition Solutions Manual
 - Setting Reading Goals Engineering Mechanics Statics 11th Edition Solutions Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Engineering Mechanics Statics 11th Edition Solutions Manual
 - Fact-Checking eBook Content of Engineering Mechanics Statics 11th Edition Solutions Manual
 - 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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