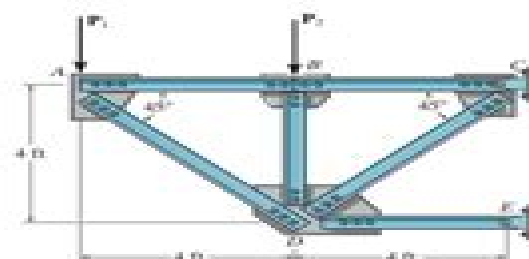


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**6–3.** The truss, used to support a balcony, is subjected to the loading shown. Approximate each joint as a pin and determine the force in each member. State whether the members are in tension or compression. Set  $P_1 = 800$  lb,  $P_2 = 0$ .



**Joint A :**

$$+\uparrow \Sigma F_y = 0; \quad F_{AB} \sin 45^\circ - 800 = 0$$

$$F_{AB} = 1131.4 \text{ lb} = 1.13 \text{ kip (C)} \quad \text{Ans}$$

$$+\rightarrow \Sigma F_x = 0; \quad F_{AB} - 1131.4 \cos 45^\circ = 0$$

$$F_{AB} = 800 \text{ lb (T)} \quad \text{Ans}$$



**Joint B :**

$$+\uparrow \Sigma F_y = 0; \quad F_{BD} - 0 = 0$$

$$F_{BD} = 0 \quad \text{Ans}$$

$$+\rightarrow \Sigma F_x = 0; \quad F_{BC} - 800 = 0$$

$$F_{BC} = 800 \text{ lb (T)} \quad \text{Ans}$$



**Joint D :**

$$+\uparrow \Sigma F_y = 0; \quad F_{DC} \sin 45^\circ - 0 - 1131.4 \sin 45^\circ = 0$$

$$F_{DC} = 1131.4 \text{ lb} = 1.13 \text{ kip (T)} \quad \text{Ans}$$

$$+\rightarrow \Sigma F_x = 0; \quad 1131.4 \cos 45^\circ + 1131.4 \cos 45^\circ - F_{DE} = 0$$

$$F_{DE} = 1600 \text{ lb} = 1.60 \text{ kip (C)} \quad \text{Ans}$$



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**RD Boyd**



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## **Table of Contents Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6**

1. Understanding the eBook Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6
  - The Rise of Digital Reading Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6
  - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6
  - 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 12th Edition Solution Manual Chapter 6
  - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6
  - Personalized Recommendations
  - Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6 User Reviews and Ratings
  - Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6 and Bestseller Lists
5. Accessing Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6 Free and Paid eBooks
  - Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6 Public Domain eBooks
  - Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6 eBook Subscription Services
  - Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6 Budget-Friendly Options

6. Navigating Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6 eBook Formats
  - ePub, PDF, MOBI, and More
  - Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6 Compatibility with Devices
  - Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6
  - Highlighting and Note-Taking Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6
  - Interactive Elements Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6
8. Staying Engaged with Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6
9. Balancing eBooks and Physical Books Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6
  - Setting Reading Goals Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6
  - Fact-Checking eBook Content of Engineering Mechanics Statics 12th Edition Solution Manual Chapter 6
  - 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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