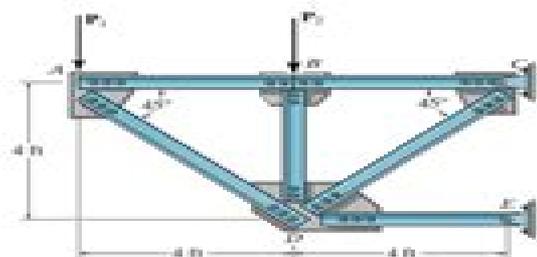


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4-2. The truss, used to support a balcony, is subjected to the loading shown. Approximate each joint as a pin and determine the force in each member. State whether the members are in tension or compression. Set $P_1 = 600$ lb, $P_2 = 400$ lb.



Joint A:

$$+\uparrow \sum F_y = 0; \quad F_{AD} \sin 45^\circ - 600 = 0$$

$$F_{AD} = 848.528 = 849 \text{ lb (C)} \quad \text{Ans}$$

$$+\rightarrow \sum F_x = 0; \quad F_{AB} - 848.528 \cos 45^\circ = 0$$

$$F_{AB} = 600 \text{ lb (T)} \quad \text{Ans}$$



Joint B:

$$+\uparrow \sum F_y = 0; \quad F_{BD} - 400 = 0$$

$$F_{BD} = 400 \text{ lb (C)} \quad \text{Ans}$$

$$+\rightarrow \sum F_x = 0; \quad F_{BC} - 400 = 0$$

$$F_{BC} = 400 \text{ lb (T)} \quad \text{Ans}$$



Joint D:

$$+\uparrow \sum F_y = 0; \quad F_{DE} \sin 45^\circ - 400 - 848.528 \sin 45^\circ = 0$$

$$F_{DE} = 1414.214 \text{ lb} = 1.41 \text{ kip (T)} \quad \text{Ans}$$

$$+\rightarrow \sum F_x = 0; \quad 848.528 \cos 45^\circ + 1414.214 \cos 45^\circ - F_{DC} = 0$$

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



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Table of Contents Engineering Statics Problems Solutions

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

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