

EXAMPLE 6.7

Determine the force in member EB of the roof truss shown in Fig. 6-18a. Indicate whether the member is in tension or compression.

SOLUTION

Free-Body Diagrams. By the method of sections, any imaginary section that cuts through EB , Fig. 6-18a, will also have to cut through three other members for which the forces are unknown. For example, section aa cuts through ED , EB , FB , and AB . If a free-body diagram of the left side of this section is considered, Fig. 6-18b, it is possible to obtain F_{ED} by summing moments about B to eliminate the other three unknowns; however, F_{EB} cannot be determined from the remaining two equilibrium equations. One possible way of obtaining F_{EB} is first to determine F_{ED} from section aa , then use this result on section bb , Fig. 6-18c, which is shown in Fig. 6-18c. Here the force system is concurrent and our sectioned free-body diagram is the same as the free-body diagram for the joint at E .



Fig. 6-18

Equations of Equilibrium. In order to determine the moment of F_{ED} about point B , Fig. 6-18b, we will use the principle of transmissibility and slide the force to point C and then resolve it into its rectangular components as shown. Therefore,

$$\zeta + \Sigma M_B = 0; \quad 1000 \text{ N}(4 \text{ m}) + 3000 \text{ N}(2 \text{ m}) - 4000 \text{ N}(4 \text{ m}) \\ + F_{ED} \sin 30^\circ(4 \text{ m}) = 0$$

$$F_{ED} = 3000 \text{ N} \quad (C)$$

Considering now the free-body diagram of section bb , Fig. 6-18c, we have

$$\rightarrow \Sigma F_x = 0; \quad F_{ED} \cos 30^\circ - 3000 \cos 30^\circ \text{ N} = 0$$

$$F_{ED} = 3000 \text{ N} \quad (C)$$

$$+\uparrow \Sigma F_y = 0; \quad 2(3000 \sin 30^\circ \text{ N}) - 1000 \text{ N} - F_{EB} = 0$$

$$F_{EB} = 2000 \text{ N} \quad (T)$$

Ans.



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Table of Contents Engineering Mechanics Statics 13th Edition Solution Manual

1. Understanding the eBook Engineering Mechanics Statics 13th Edition Solution Manual
 - The Rise of Digital Reading Engineering Mechanics Statics 13th Edition Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Mechanics Statics 13th Edition Solution 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 13th Edition Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Mechanics Statics 13th Edition Solution Manual
 - Personalized Recommendations

- Engineering Mechanics Statics 13th Edition Solution Manual User Reviews and Ratings
- Engineering Mechanics Statics 13th Edition Solution Manual and Bestseller Lists
- 5. Accessing Engineering Mechanics Statics 13th Edition Solution Manual Free and Paid eBooks
 - Engineering Mechanics Statics 13th Edition Solution Manual Public Domain eBooks
 - Engineering Mechanics Statics 13th Edition Solution Manual eBook Subscription Services
 - Engineering Mechanics Statics 13th Edition Solution Manual Budget-Friendly Options
- 6. Navigating Engineering Mechanics Statics 13th Edition Solution Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Engineering Mechanics Statics 13th Edition Solution Manual Compatibility with Devices
 - Engineering Mechanics Statics 13th Edition Solution Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Engineering Mechanics Statics 13th Edition Solution Manual
 - Highlighting and Note-Taking Engineering Mechanics Statics 13th Edition Solution Manual
 - Interactive Elements Engineering Mechanics Statics 13th Edition Solution Manual
- 8. Staying Engaged with Engineering Mechanics Statics 13th Edition Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Engineering Mechanics Statics 13th Edition Solution Manual
- 9. Balancing eBooks and Physical Books Engineering Mechanics Statics 13th Edition Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engineering Mechanics Statics 13th Edition Solution Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Engineering Mechanics Statics 13th Edition Solution Manual
 - Setting Reading Goals Engineering Mechanics Statics 13th Edition Solution Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Engineering Mechanics Statics 13th Edition Solution Manual
 - Fact-Checking eBook Content of Engineering Mechanics Statics 13th Edition Solution 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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