

Problem #1

Determine the forces in the members of the roof truss shown.

Figure:



Reqd:  $F_{AB}$   
 $F_{BC}$   
 $F_{BD}$   
 $F_{AC}$   
 $F_{CD}$

Solution w/ FBD:

Joint C



$$\sum F_V = 0$$

$$0 = -100 + F_{BC}$$

$$\underline{F_{BC} = 100 \text{ kN} \text{ (T)}} \text{ (1)}$$

$$\sum F_H = 0$$

$$0 = F_{BD} - F_{AC} \text{ (2)}$$

Joint A



$$\sum F_H = 0$$

$$0 = F_{AC} - F_{AB} \cos 30$$

$$F_{AC} = 100 \cos 30$$

$$\underline{F_{AC} = 50\sqrt{3} \text{ kN} \text{ (T)}} \text{ (3)}$$

$$\sum F_V = 0$$

$$0 = R_A - F_{AB} \sin 30$$

$$\underline{R_A = 50 \text{ kN}}$$

Joint B



$$\sum F_V = 0$$

$$0 = F_{BD} \sin 30 + F_{AB} \sin 30 - 100 \sin 30 - 100$$

$$\underline{F_{BD} + F_{AB} = 200 \text{ (LTD)}} \text{ (4)}$$

$$\sum F_H = 0$$

$$0 = F_{AB} \cos 30 - F_{BD} \cos 30 + 100 \cos 30$$

$$\underline{-F_{AB} + F_{BD} = 100} \text{ (5)}$$

$$F_{AB} = F_{BD} - 100$$

Eq. (1)

$$\underline{F_{CD} = F_{AC}}$$

$$\underline{F_{CD} = 50\sqrt{3} \text{ kN} \text{ (T)}}$$

Eq. 2 & (4)

$$F_{BD} + (F_{BD} - 100) = 200 \text{ (LTD)}$$

$$2F_{BD} = 200 \text{ (LTD)} + 100$$

$$2F_{BD} = 300$$

$$\underline{F_{BD} = 150 \text{ kN} \text{ (C)}}$$

$$F_{AB} = 150 - 100$$

$$\underline{F_{AB} = 50 \text{ kN} \text{ (C)}}$$

# Engineering Mechanics Statics Problems And Solutions

**Jessica J Manson**



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## **Table of Contents Engineering Mechanics Statics Problems And Solutions**

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

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