

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



$$\sum F_V = 0$$

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

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

$$\sum F_H = 0$$

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

Joint A



$$\sum F_H = 0$$

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

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

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

$$\sum F_V = 0$$

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

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

Joint B



$$\sum F_V = 0$$

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

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

$$\sum F_H = 0$$

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

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

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

Eq. (1)

$$F_{CD} = F_{AC}$$

$$F_{CD} = 50\sqrt{3} \text{ kN} \text{ (6)}$$

Eq. 2 & (3)

$$F_{BD} + (F_{BD} - 100) = 200 \text{ (4)}$$

$$2F_{BD} = 200 \text{ (4)} + 100$$

$$2F_{BD} = 300$$

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

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

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

Static Mechanics Solution

Annelies Wilder-Smith



Static Mechanics Solution:

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Table of Contents Static Mechanics Solution

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

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