

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



$$\sum F_H = 0$$

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

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

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

$$\sum F_V = 0$$

$$0 = R_{Ay} - F_{AB} \sin 30$$

$$\underline{R_{Ay} = 50 \text{ kN}}$$

Joint B



$$\sum F_V = 0$$

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

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

$$\sum F_H = 0$$

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

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

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

Eq. (1)

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

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

Eq. 2 & (3)

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

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

$$2F_{BD} = 300$$

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

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

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

Engineering Statics Problem Solutions

Puja Mehta

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Engineering Statics Problem Solutions:

Engineering Statics Problem Solutions Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Engineering Statics Problem Solutions**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Engineering Statics Problem Solutions

1. Understanding the eBook Engineering Statics Problem Solutions
 - The Rise of Digital Reading Engineering Statics Problem Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Statics Problem 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 Problem Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Statics Problem Solutions
 - Personalized Recommendations
 - Engineering Statics Problem Solutions User Reviews and Ratings
 - Engineering Statics Problem Solutions and Bestseller Lists

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