Problem #1

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

Figure:

Reqd: P_{AB}
P_{BC} ?
P_{BD}
P_{AC}
P_{CD}

Solution w/ FBD:

Joint C

$\Sigma F_V = 0$
$0 = -100 + P_{BC}$
$P_{BC} = 100 \, KN$ ①

$\Sigma F_H = 0$
$0 = P_{CD} - P_{AC}$ ①

Joint A

$\Sigma F_H = 0$
$0 = P_{AC} - P_{AB} \cos 30$
$P_{AC} = 100 \cos 30$
$P_{AC} = 50\sqrt{3} \, KN \, (T)$

$\Sigma F_V = 0$
$0 = R_A - P_{AB} \sin 30$
$R_A = 50 \, KN$

Joint B

$\Sigma F_V = 0$
$0 = P_{BD} \sin 30 + P_{AB} \sin 30 - 100 \sin 30 - 100$
$P_{BD} + P_{AB} = \csc 30 \, (150) \, ②$

$\Sigma F_H = 0$
$0 = P_{AB} \cos 30 - P_{BD} \cos 30 + 100 \cos 30$
$-P_{AB} + P_{BD} = 100 \, ③$
$P_{AB} = P_{BD} - 100$

Eq. ①
$P_{CD} = P_{AC}$
$P_{CD} = 50\sqrt{3} \, KN \, (T)$

Eq. 2 & ③

$P_{BD} + (P_{BD} - 100) = \csc 30 \, (150)$
$2P_{BD} = \csc 30 \, (150) + 100$
$2P_{BD} = 400$
$P_{BD} = 200 \, KN \, (C)$

$P_{AB} = 200 - 100$
$P_{AB} = 100 \, KN \, (C)$

Static Mechanics Solution

R. C. Hibbeler

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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

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