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•2-61. Express each force acting on the pipe assembly in Cartesian vector form.



**Rectangular Components:** Since  $\cos^2 \alpha_1 + \cos^2 \beta_1 + \cos^2 \gamma_1 = 1$ , then  $\cos \beta_1 = \sqrt{1 - \cos^2 60^\circ - \cos^2 120^\circ} = 0.7071$ .

However, it is required that  $\beta_1 > 90^\circ$ , then,  $\beta_1 = \cos^{-1}(-0.7071) = 135^\circ$ . By resolving  $F_1$  and  $F_2$  into their  $x$ ,  $y$ , and  $z$  components, as shown in Figs. a and b, respectively,  $F_1$  and  $F_2$  can be expressed in Cartesian vector form, as

$$F_1 = 600 \left( \frac{-1}{\sqrt{2}} \right) \mathbf{i} + 0 \mathbf{j} + 600 \left( \frac{1}{\sqrt{2}} \right) \mathbf{k}$$

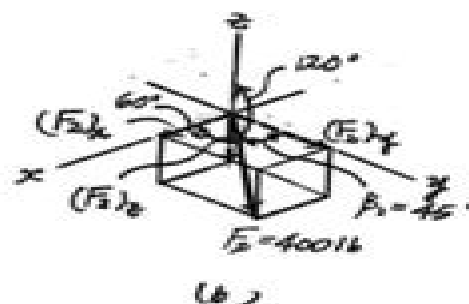
$$= \{-424\mathbf{i} + 424\mathbf{k}\} \text{ N}$$

Ans.

$$F_2 = -400 \cos 60^\circ \mathbf{j} + -400 \cos 45^\circ \mathbf{z} + 400 \cos 120^\circ \mathbf{k}$$

$$= \{-200\mathbf{j} - 283\mathbf{k}\} = \{200\mathbf{j} - 283\mathbf{k}\} \text{ N}$$

Ans.



# Engineering Mechanics Statics Dynamics 12th Edition Solutions

**B Lingard**



## **Engineering Mechanics Statics Dynamics 12th Edition Solutions:**

## Reviewing **Engineering Mechanics Statics Dynamics 12th Edition Solutions**: Unlocking the Spellbinding Force of Linguistics

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### **Table of Contents Engineering Mechanics Statics Dynamics 12th Edition Solutions**

1. Understanding the eBook Engineering Mechanics Statics Dynamics 12th Edition Solutions
  - The Rise of Digital Reading Engineering Mechanics Statics Dynamics 12th Edition Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Mechanics Statics Dynamics 12th Edition 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 Dynamics 12th Edition Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Mechanics Statics Dynamics 12th Edition Solutions
  - Personalized Recommendations
  - Engineering Mechanics Statics Dynamics 12th Edition Solutions User Reviews and Ratings

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