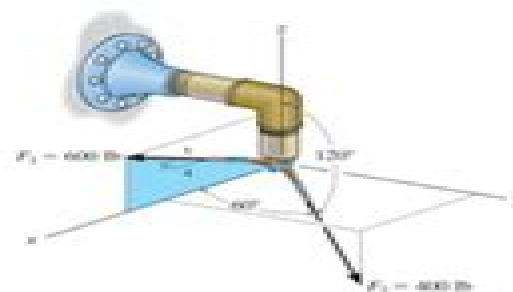


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•2-61. Express each force acting on the pipe assembly in Cartesian vector form.



**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

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

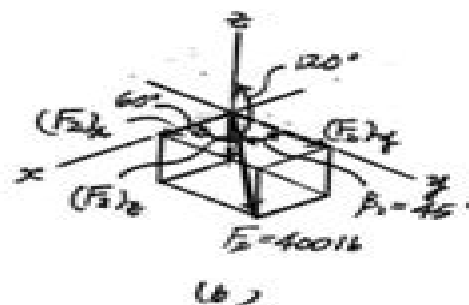
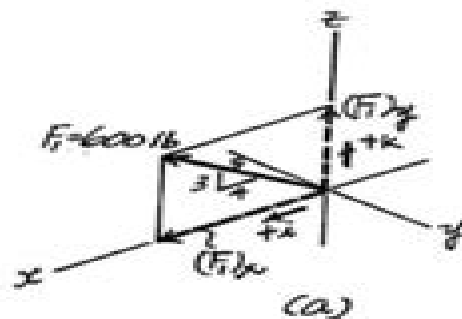
$$= \{-424\mathbf{i} + 424\mathbf{k}\} \text{ N}$$

Ans.

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

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

Ans.



# Hibbler Statics 12th Edition Solution Manual

**Rachel S Tattersall**



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## **Table of Contents Hibbler Statics 12th Edition Solution Manual**

1. Understanding the eBook Hibbler Statics 12th Edition Solution Manual
  - The Rise of Digital Reading Hibbler Statics 12th Edition Solution Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Hibbler Statics 12th Edition Solution Manual
  - 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 Hibbler Statics 12th Edition Solution Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Hibbler Statics 12th Edition Solution Manual
  - Personalized Recommendations
  - Hibbler Statics 12th Edition Solution Manual User Reviews and Ratings
  - Hibbler Statics 12th Edition Solution Manual and Bestseller Lists

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