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6-2. The truss, used to support a balcony, is subjected to the loading shown. Approximate each joint as a pin and determine the force in each member. State whether the members are in tension or compression. Set  $P_1 = 600$  lb,  $P_2 = 400$  lb.



Joint A:

$$+\uparrow \sum F_y = 0; \quad F_{AD} \sin 45^\circ - 600 = 0$$

$$F_{AD} = 848.528 = 849 \text{ lb (C)} \quad \text{Ans}$$

$$+\rightarrow \sum F_x = 0; \quad F_{AB} - 848.528 \cos 45^\circ = 0$$

$$F_{AB} = 600 \text{ lb (T)} \quad \text{Ans}$$



Joint B:

$$+\uparrow \sum F_y = 0; \quad F_{BD} - 400 = 0$$

$$F_{BD} = 400 \text{ lb (C)} \quad \text{Ans}$$

$$+\rightarrow \sum F_x = 0; \quad F_{BC} - 600 = 0$$

$$F_{BC} = 600 \text{ lb (T)} \quad \text{Ans}$$



Joint D:

$$+\uparrow \sum F_y = 0; \quad F_{CD} \sin 45^\circ - 400 - 848.528 \sin 45^\circ = 0$$

$$F_{CD} = 1414.214 \text{ lb} = 1.41 \text{ kip (T)} \quad \text{Ans}$$

$$+\rightarrow \sum F_x = 0; \quad 848.528 \cos 45^\circ + 1414.214 \cos 45^\circ - F_{DE} = 0$$

$$F_{DE} = 1600 \text{ lb} = 1.60 \text{ kip (C)} \quad \text{Ans}$$



# Hibbeler Statics 12th Edition Solutions Chapter 6

**JA Banks**



**Hibbeler Statics 12th Edition Solutions Chapter 6:**

This book delves into Hibbeler Statics 12th Edition Solutions Chapter 6. Hibbeler Statics 12th Edition Solutions Chapter 6 is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Hibbeler Statics 12th Edition Solutions Chapter 6, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Hibbeler Statics 12th Edition Solutions Chapter 6
  - Chapter 2: Essential Elements of Hibbeler Statics 12th Edition Solutions Chapter 6
  - Chapter 3: Hibbeler Statics 12th Edition Solutions Chapter 6 in Everyday Life
  - Chapter 4: Hibbeler Statics 12th Edition Solutions Chapter 6 in Specific Contexts
  - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Hibbeler Statics 12th Edition Solutions Chapter 6. The first chapter will explore what Hibbeler Statics 12th Edition Solutions Chapter 6 is, why Hibbeler Statics 12th Edition Solutions Chapter 6 is vital, and how to effectively learn about Hibbeler Statics 12th Edition Solutions Chapter 6.
3. In chapter 2, this book will delve into the foundational concepts of Hibbeler Statics 12th Edition Solutions Chapter 6. This chapter will elucidate the essential principles that need to be understood to grasp Hibbeler Statics 12th Edition Solutions Chapter 6 in its entirety.
4. In chapter 3, this book will examine the practical applications of Hibbeler Statics 12th Edition Solutions Chapter 6 in daily life. This chapter will showcase real-world examples of how Hibbeler Statics 12th Edition Solutions Chapter 6 can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Hibbeler Statics 12th Edition Solutions Chapter 6 in specific contexts. This chapter will explore how Hibbeler Statics 12th Edition Solutions Chapter 6 is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Hibbeler Statics 12th Edition Solutions Chapter 6. This chapter will summarize the key points that have been discussed throughout the book.  
This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Hibbeler Statics 12th Edition Solutions Chapter 6.

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