

3-1.

The members of a truss are pin connected at joint O . Determine the magnitudes of F_1 and F_2 for equilibrium. Set $\theta = 60^\circ$.

SOLUTION

$$+\rightarrow \sum F_x = 0; \quad F_2 \sin 70^\circ + F_1 \cos 60^\circ - 5 \cos 30^\circ - \frac{4}{5}(7) = 0$$

$$0.9397F_2 + 0.5F_1 = 9.930$$

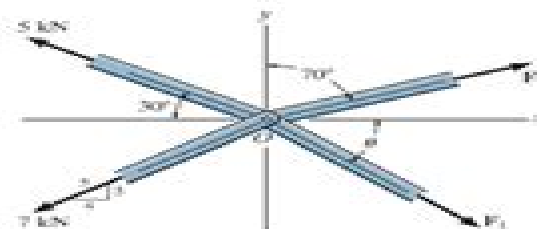
$$+\uparrow \sum F_y = 0; \quad F_2 \cos 70^\circ + 5 \sin 30^\circ - F_1 \sin 60^\circ - \frac{3}{5}(7) = 0$$

$$0.3420F_2 - 0.8660F_1 = 1.7$$

Solving:

$$F_2 = 9.60 \text{ kN}$$

$$F_1 = 1.83 \text{ kN}$$



Ans.

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Ans:

$$F_2 = 9.60 \text{ kN}$$

$$F_1 = 1.83 \text{ kN}$$

Statics Ch 3 Solution Manual

Robert R. Redfield



Statics Ch 3 Solution Manual:

This book delves into Statics Ch 3 Solution Manual. Statics Ch 3 Solution Manual is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Statics Ch 3 Solution Manual, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Statics Ch 3 Solution Manual
- Chapter 2: Essential Elements of Statics Ch 3 Solution Manual
- Chapter 3: Statics Ch 3 Solution Manual in Everyday Life
- Chapter 4: Statics Ch 3 Solution Manual in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Statics Ch 3 Solution Manual. This chapter will explore what Statics Ch 3 Solution Manual is, why Statics Ch 3 Solution Manual is vital, and how to effectively learn about Statics Ch 3 Solution Manual.
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5. In chapter 4, this book will scrutinize the relevance of Statics Ch 3 Solution Manual in specific contexts. The fourth chapter will explore how Statics Ch 3 Solution Manual is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Statics Ch 3 Solution Manual. This chapter will summarize the key points that have been discussed throughout the book.

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