

16-2. Continued

From the matrix partition, $Q_4 = K_{41}D_1 + K_{42}D_2$.

$$-5(10^3) = (511.25D_1 + 22.5D_2)(10^6) \quad (1)$$

$$-24(10^3) = (511.25D_2 - 22.5D_1)(10^6) \quad (2)$$

$$11(10^3) = (22.5D_1 - 22.5D_2 + 120D_3)(10^6) \quad (3)$$

Solving Eqs. (1) to (3).

$$D_1 = -13.57(10^{-6}) \text{ m} \quad D_2 = -43.15(10^{-6}) \text{ m} \quad D_3 = 86.12(10^{-6}) \text{ rad}$$

Using these results and applying $Q_5 = K_{51}D_1 + K_{52}D_2$,

$$Q_4 = -11.25(10^6)(-13.57)(10^{-6}) + (-22.5)(10^6)(86.12)(10^{-6}) = -1.785 \text{ kN}$$

$$Q_5 = -500(10^6)(-43.15)(10^{-6}) = 21.58 \text{ kN}$$

$$Q_6 = 22.5(10^6)(-13.57)(10^{-6}) + 30(10^6)(86.12)(10^{-6}) = 2.278 \text{ kN} \cdot \text{m}$$

$$Q_7 = -500(10^6)(-13.57)(10^{-6}) = 6.785 \text{ kN}$$

$$Q_8 = -11.25(10^6)(-43.15)(10^{-6}) + 22.5(10^6)(86.12)(10^{-6}) = 2.423 \text{ kN}$$

$$Q_9 = -22.5(10^6)(-43.15)(10^{-6}) + 30(10^6)(86.12)(10^{-6}) = 3.555 \text{ kN} \cdot \text{m}$$

Superposition these results to those of FEM shown in Fig. a.

- 1. $Q_1 = 0$
- 2. $Q_2 = 0$
- 3. $Q_3 = 0$
- 4. $Q_4 = -1.785 \text{ kN}$
- 5. $Q_5 = 21.58 \text{ kN}$
- 6. $Q_6 = 2.278 \text{ kN} \cdot \text{m}$
- 7. $Q_7 = 6.785 \text{ kN}$
- 8. $Q_8 = 2.423 \text{ kN}$
- 9. $Q_9 = 3.555 \text{ kN} \cdot \text{m}$



Structural Analysis Solution Manual

Russell C. Hibbeler



Structural Analysis Solution Manual:

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

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

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

2. In chapter 1, the author will provide an overview of Structural Analysis Solution Manual. This chapter will explore what Structural Analysis Solution Manual is, why Structural Analysis Solution Manual is vital, and how to effectively learn about Structural Analysis Solution Manual.

3. In chapter 2, the author will delve into the foundational concepts of Structural Analysis Solution Manual. The second chapter will elucidate the essential principles that must be understood to grasp Structural Analysis Solution Manual in its entirety.

4. In chapter 3, the author will examine the practical applications of Structural Analysis Solution Manual in daily life. The third chapter will showcase real-world examples of how Structural Analysis Solution Manual can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Structural Analysis Solution Manual in specific contexts. The fourth chapter will explore how Structural Analysis Solution Manual is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Structural Analysis Solution Manual. 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 Structural Analysis Solution Manual.

https://matrix.jamesarcher.co/public/Resources/HomePages/Dr_Sтивен_R_Gundry.pdf

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