

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. $Q_9 = 3.555 \text{ kN} \cdot \text{m}$



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Table of Contents Structural Analysis Solution Manual 8th Edition

1. Understanding the eBook Structural Analysis Solution Manual 8th Edition
 - The Rise of Digital Reading Structural Analysis Solution Manual 8th Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying Structural Analysis Solution Manual 8th Edition
 - 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 Structural Analysis Solution Manual 8th Edition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Structural Analysis Solution Manual 8th Edition

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

- Fact-Checking eBook Content of Structural Analysis Solution Manual 8th Edition
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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