

16-2. Continued

From the matrix partition, $\mathbf{Q}_k = \mathbf{K}_{k1}\mathbf{D}_s + \mathbf{K}_{k2}\mathbf{D}_k$.

$$-5(10^3) = (511.25D_1 + 22.5D_3)(10^6) \quad (1)$$

$$-24(10^3) = (511.25D_2 - 22.5D_3)(10^6) \quad (2)$$

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

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 $\mathbf{Q}_s = \mathbf{K}_{s1}\mathbf{D}_s + \mathbf{K}_{s2}\mathbf{D}_k$,

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

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

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

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

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

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

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

$$\begin{aligned} Q_1 &= -1.785 \text{ kN} + (-1.000 \text{ kN}) = -2.785 \text{ kN} \\ Q_2 &= 21.58 \text{ kN} + (-1.000 \text{ kN}) = 20.58 \text{ kN} \\ Q_3 &= 2.278 \text{ kN} \cdot \text{m} + (-0.500 \text{ kN} \cdot \text{m}) = 1.778 \text{ kN} \cdot \text{m} \\ Q_4 &= 6.785 \text{ kN} + (-1.000 \text{ kN}) = 5.785 \text{ kN} \\ Q_5 &= 2.423 \text{ kN} + (-1.000 \text{ kN}) = 1.423 \text{ kN} \\ Q_6 &= 3.555 \text{ kN} \cdot \text{m} + (-0.500 \text{ kN} \cdot \text{m}) = 3.055 \text{ kN} \cdot \text{m} \end{aligned}$$



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

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