

1.1

(a) Using two elements

$$A(y) = 0.25 - 0.0125y$$

$$A_1 = 0.25 \text{ in}^2 \quad A_2 = 0.1875 \text{ in}^2$$

$$A_3 = 0.125 \text{ in}^2$$

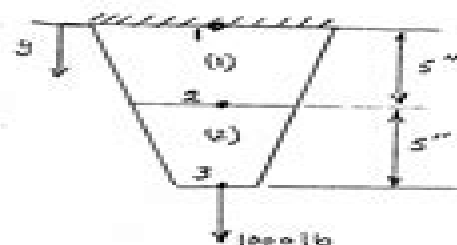
$$K_{e2} = \frac{(A_{i+1} + A_i)E}{2l}$$

$$K_1 = \frac{(0.25 + 0.1875)(10.4 \times 10^6)}{2(5)} = 455,000 \frac{\text{lb}}{\text{in}}$$

$$K_2 = \frac{(0.1875 + 0.125)(10.4 \times 10^6)}{2(5)} = 325,000 \frac{\text{lb}}{\text{in}}$$

$$10^3 \begin{bmatrix} \cancel{455} & \cancel{-455} & 0 \\ \cancel{-455} & 455 + 325 & -325 \\ 0 & -325 & 325 \end{bmatrix} \begin{Bmatrix} u_1 \\ u_2 \\ u_3 \end{Bmatrix} = \begin{Bmatrix} 0 \\ 0 \\ 1000 \end{Bmatrix}$$

$$u_1 = 0, \quad \underline{u_2 = 0.002197 \text{ in}}, \quad \underline{u_3 = 0.005274 \text{ in}}$$



(b)

$$A_1 = 0.25 \text{ in}^2$$

$$A_2 = 0.239375 \text{ in}^2$$

$$A_3 = 0.21875 \text{ in}^2$$

$$A_4 = 0.203125 \text{ in}^2$$

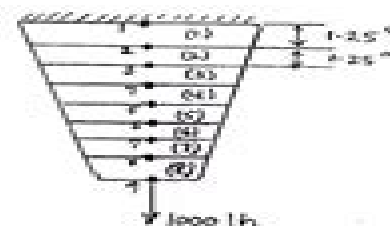
$$A_5 = 0.1875 \text{ in}^2$$

$$A_6 = 0.171875 \text{ in}^2$$

$$A_7 = 0.15625 \text{ in}^2$$

$$A_8 = 0.140625 \text{ in}^2$$

$$A_9 = 0.125 \text{ in}^2$$



Finite Element Analysis Solutions Manual Saeed Moaveni

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Table of Contents Finite Element Analysis Solutions Manual Saeed Moaveni

1. Understanding the eBook Finite Element Analysis Solutions Manual Saeed Moaveni
 - The Rise of Digital Reading Finite Element Analysis Solutions Manual Saeed Moaveni
 - Advantages of eBooks Over Traditional Books
2. Identifying Finite Element Analysis Solutions Manual Saeed Moaveni
 - 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 Finite Element Analysis Solutions Manual Saeed Moaveni
 - User-Friendly Interface
4. Exploring eBook Recommendations from Finite Element Analysis Solutions Manual Saeed Moaveni
 - Personalized Recommendations
 - Finite Element Analysis Solutions Manual Saeed Moaveni User Reviews and Ratings
 - Finite Element Analysis Solutions Manual Saeed Moaveni and Bestseller Lists
5. Accessing Finite Element Analysis Solutions Manual Saeed Moaveni Free and Paid eBooks
 - Finite Element Analysis Solutions Manual Saeed Moaveni Public Domain eBooks
 - Finite Element Analysis Solutions Manual Saeed Moaveni eBook Subscription Services
 - Finite Element Analysis Solutions Manual Saeed Moaveni Budget-Friendly Options

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