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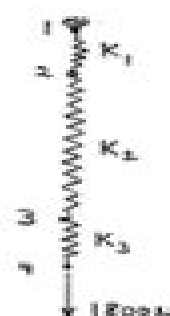
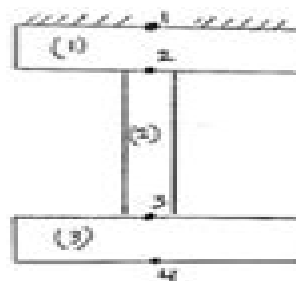
$$K = \frac{AE}{L}$$

$$K_1 = K_3 = \frac{(0.08)(0.006)(68.9 \times 10^9)}{0.025}$$

$$K_1 = K_3 = 1.32288 \times 10^9 \frac{N}{m}$$

$$K_2 = \frac{(0.02)(0.006)(68.9 \times 10^9)}{0.1}$$

$$K_2 = 0.08268 \times 10^9 \frac{N}{m}$$



$$\frac{1}{10} \begin{bmatrix} 1 & 0 \\ 1.32288 & -1.32288 \\ 0 & 1.32288 + 0.08268 \\ -1.32288 & -0.08268 \\ 0 & 0.08268 + 1.32288 \\ 0 & -1.32288 \end{bmatrix} \begin{Bmatrix} u_1 \\ u_2 \\ u_3 \\ u_4 \end{Bmatrix} = \begin{Bmatrix} 0 \\ 0 \\ 0 \\ 1800 \end{Bmatrix}$$

$$\begin{bmatrix} 1.40556 & -0.08268 & 0 \\ -0.08268 & 1.40556 & -1.32288 \\ 0 & -1.32288 & 1.32288 \end{bmatrix} \begin{Bmatrix} u_2 \\ u_3 \\ u_4 \end{Bmatrix} = \begin{Bmatrix} 0 \\ 0 \\ 1800 \times 10^{-9} \end{Bmatrix}$$

$$u_2 = 1.360668 \times 10^{-6} \text{ m}$$

$$u_3 = 2.313135 \times 10^{-5} \text{ m}$$

$$u_4 = 2.449202 \times 10^{-5} \text{ m}$$

$$\sigma^{(1)} = E \frac{u_2 - u_1}{L} = (68.9 \times 10^9) \frac{(1.360668 \times 10^{-6} - 0)}{0.025} = 3750000 = 3.75 \text{ MPa}$$

as a check: $\sigma^{(1)} = \frac{F}{A} = \frac{1800 \text{ N}}{(0.08)(0.006)} = 3.75 \text{ MPa}$

$$\sigma^{(2)} = E \frac{u_3 - u_2}{L} = (68.9 \times 10^9) \frac{(2.313135 \times 10^{-5} - 1.360668 \times 10^{-6})}{0.1} = 15 \text{ MPa}$$

as a check: $\sigma^{(2)} = \frac{1800 \text{ N}}{(0.02)(0.006)} = 15 \text{ MPa}$

$$\sigma^{(3)} = E \frac{u_4 - u_3}{L} = (68.9 \times 10^9) \frac{(2.449202 - 2.313135) \times 10^{-5}}{0.025} = 3.75 \text{ MPa}$$

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Finite Element Method Păcurar Răzvan, 2018-02-28 The book entitled Finite Element Method Simulation Numerical Analysis and Solution Techniques aims to present results of the applicative research performed using FEM in various engineering fields by researchers affiliated to well known universities The book has a profound interdisciplinary character and is mainly addressed to researchers PhD students graduate and undergraduate students teachers engineers as well as all other readers interested in the engineering applications of FEM I am confident that readers will find information and challenging topics of high academic and scientific level which will encourage them to enhance their knowledge in this engineering domain having a continuous expansion The applications presented in this book cover a broad spectrum of finite element applications starting from mechanical electrical or energy production and finishing with the successful simulation of severe meteorological phenomena

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Table of Contents Finite Element Analysis Saeed Moaveni Solution

1. Understanding the eBook Finite Element Analysis Saeed Moaveni Solution
 - The Rise of Digital Reading Finite Element Analysis Saeed Moaveni Solution
 - Advantages of eBooks Over Traditional Books
2. Identifying Finite Element Analysis Saeed Moaveni Solution
 - 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 Saeed Moaveni Solution
 - User-Friendly Interface
4. Exploring eBook Recommendations from Finite Element Analysis Saeed Moaveni Solution
 - Personalized Recommendations
 - Finite Element Analysis Saeed Moaveni Solution User Reviews and Ratings

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