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1-1

(A) Using two elements

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

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

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

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

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

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

$$10^3 \begin{bmatrix} 1 & 0 \\ 455 & -455 \\ -455 & 455 + 325 & -325 \\ 0 & -325 & 325 \end{bmatrix} \begin{Bmatrix} u_1 \\ u_2 \\ u_3 \end{Bmatrix} = \begin{Bmatrix} 0 \\ 0 \\ 1000 \end{Bmatrix}$$

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



(b)

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

$$A_2 = 0.234375 \text{ in}^2$$

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

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

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

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

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

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

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



Finite Element Analysis Saeed Moaveni Solution Manual

Saeed Moaveni



Finite Element Analysis Saeed Moaveni Solution Manual:

The book delves into Finite Element Analysis Saeed Moaveni Solution Manual. Finite Element Analysis Saeed Moaveni Solution Manual is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Finite Element Analysis Saeed Moaveni Solution Manual, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Finite Element Analysis Saeed Moaveni Solution Manual
 - Chapter 2: Essential Elements of Finite Element Analysis Saeed Moaveni Solution Manual
 - Chapter 3: Finite Element Analysis Saeed Moaveni Solution Manual in Everyday Life
 - Chapter 4: Finite Element Analysis Saeed Moaveni Solution Manual in Specific Contexts
 - Chapter 5: Conclusion
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 3. In chapter 2, this book will delve into the foundational concepts of Finite Element Analysis Saeed Moaveni Solution Manual. The second chapter will elucidate the essential principles that need to be understood to grasp Finite Element Analysis Saeed Moaveni Solution Manual in its entirety.
 4. In chapter 3, the author will examine the practical applications of Finite Element Analysis Saeed Moaveni Solution Manual in daily life. The third chapter will showcase real-world examples of how Finite Element Analysis Saeed Moaveni Solution Manual can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Finite Element Analysis Saeed Moaveni Solution Manual in specific contexts. This chapter will explore how Finite Element Analysis Saeed Moaveni Solution Manual is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Finite Element Analysis Saeed Moaveni Solution Manual. The final 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. It is highly recommended for anyone seeking to gain a comprehensive understanding of Finite Element Analysis Saeed Moaveni Solution Manual.

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