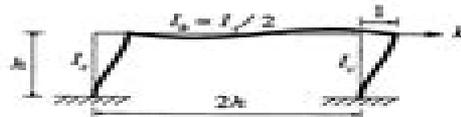


**Problem 1.15**



Define degrees of freedom (DOF):



Form structural stiffness matrix:

$$u_1 = 1, \quad u_2 = u_3 = 0$$



$$k_{11} = 2 \frac{12 EI_c}{h^3} = \frac{24 EI_c}{h^3}$$

$$k_{21} = k_{31} = \frac{6 EI_c}{h^2}$$

$$u_2 = 1, \quad u_1 = u_3 = 0$$



$$k_{22} = \frac{4 EI_c}{h} + \frac{4 EI_b}{(2h)} = \frac{4 EI_c}{h} + \frac{EI_c}{h} = \frac{5 EI_c}{h}$$

$$k_{32} = \frac{2 EI_b}{(2h)} = \frac{EI_c}{2h}$$

$$k_{12} = \frac{6 EI_c}{h^2}$$

$$u_3 = 1, \quad u_1 = u_2 = 0$$



$$k_{33} = \frac{4 EI_c}{h} + \frac{4 EI_b}{(2h)} = \frac{4 EI_c}{h} + \frac{EI_c}{h} = \frac{5 EI_c}{h}$$

$$k_{23} = \frac{2 EI_b}{(2h)} = \frac{EI_c}{2h}$$

$$k_{13} = \frac{6 EI_c}{h^2}$$

Hence

$$\mathbf{k} = \frac{EI_c}{h^3} \begin{bmatrix} 24 & 6h & 6h \\ 6h & 5h^2 & \frac{1}{2}h^2 \\ 6h & \frac{1}{2}h^2 & 5h^2 \end{bmatrix}$$

The lateral stiffness  $k$  of the frame can be obtained by static condensation since there is no force acting on DOF 2 and 3:

$$\frac{EI_c}{h^3} \begin{bmatrix} 24 & 6h & 6h \\ 6h & 5h^2 & \frac{1}{2}h^2 \\ 6h & \frac{1}{2}h^2 & 5h^2 \end{bmatrix} \begin{Bmatrix} u_1 \\ u_2 \\ u_3 \end{Bmatrix} = \begin{Bmatrix} F_1 \\ 0 \\ 0 \end{Bmatrix}$$

First partition  $\mathbf{k}$  as

$$\mathbf{k} = \frac{EI_c}{h^3} \begin{bmatrix} 24 & 6h & 6h \\ 6h & 5h^2 & \frac{1}{2}h^2 \\ 6h & \frac{1}{2}h^2 & 5h^2 \end{bmatrix} = \begin{bmatrix} \mathbf{k}_{11} & \mathbf{k}_{10} \\ \mathbf{k}_{10}^T & \mathbf{k}_{00} \end{bmatrix}$$

where

$$\mathbf{k}_{11} = \frac{EI_c}{h^3} [24]$$

$$\mathbf{k}_{10} = \frac{EI_c}{h^3} [6h \quad 6h]$$

$$\mathbf{k}_{00} = \frac{EI_c}{h^3} \begin{bmatrix} 5h^2 & \frac{1}{2}h^2 \\ \frac{1}{2}h^2 & 5h^2 \end{bmatrix}$$

Then compute the lateral stiffness  $k$  from

$$k = \mathbf{k}_{11} - \mathbf{k}_{10} \mathbf{k}_{00}^{-1} \mathbf{k}_{10}^T$$

Since

$$\mathbf{k}_{00}^{-1} = \frac{4h}{99 EI_c} \begin{bmatrix} 5 & -\frac{1}{2} \\ -\frac{1}{2} & 5 \end{bmatrix}$$

we get

# Dynamics Of Structures Chopra Solutions

**M Carnoy**



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### **Table of Contents Dynamics Of Structures Chopra Solutions**

1. Understanding the eBook Dynamics Of Structures Chopra Solutions
  - The Rise of Digital Reading Dynamics Of Structures Chopra Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Dynamics Of Structures Chopra Solutions
  - 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 Dynamics Of Structures Chopra Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Dynamics Of Structures Chopra Solutions

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

- Fact-Checking eBook Content of Dynamics Of Structures Chopra Solutions
  - 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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