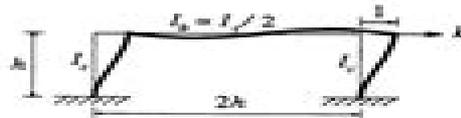


Problem 1.15



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

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

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 k as

$$k = \frac{EI_c}{h^3} \begin{bmatrix} 24 & 6h & 6h \\ 6h & 5h^2 & \frac{1}{2}h^2 \\ 6h & \frac{1}{2}h^2 & 5h^2 \end{bmatrix} = \begin{bmatrix} k_{11} & k_{12} \\ k_{12}^T & k_{00} \end{bmatrix}$$

where

$$k_{11} = \frac{EI_c}{h^3} [24]$$

$$k_{12} = \frac{EI_c}{h^3} [6h \quad 6h]$$

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

Then compute the lateral stiffness k from

$$k = k_{11} - k_{12} k_{00}^{-1} k_{12}^T$$

Since

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

we get

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Jicheng Xie



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Table of Contents Solution For Dynamics Of Structures Chopra

1. Understanding the eBook Solution For Dynamics Of Structures Chopra
 - The Rise of Digital Reading Solution For Dynamics Of Structures Chopra
 - Advantages of eBooks Over Traditional Books
2. Identifying Solution For Dynamics Of Structures Chopra
 - 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 Solution For Dynamics Of Structures Chopra
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solution For Dynamics Of Structures Chopra
 - Personalized Recommendations
 - Solution For Dynamics Of Structures Chopra User Reviews and Ratings
 - Solution For Dynamics Of Structures Chopra and Bestseller Lists

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