

**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

$$k = \frac{EI_c}{h^3} \begin{bmatrix} 24 & 6h & 6h \\ 6h & 5h^2 & \frac{1}{2}h^2 \\ 6h & \frac{1}{2}h^2 & 5h^2 \end{bmatrix} = \begin{bmatrix} k_{11} & k_{12} \\ k_{12}^T & k_{22} \end{bmatrix}$$

where

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

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

$$k_{22} = \frac{EI_c}{h^3} \begin{bmatrix} 5h^2 & \frac{1}{2}h^2 \\ \frac{1}{2}h^2 & 5h^2 \end{bmatrix}$$

Then compute the lateral stiffness  $k$  from

$$k = k_{11} - k_{12} k_{22}^{-1} k_{12}^T$$

Since

$$k_{22}^{-1} = \frac{4h}{99 EI_c} \begin{bmatrix} 5 & -\frac{1}{2} \\ -\frac{1}{2} & 5 \end{bmatrix}$$

we get

# Solution For Dynamics Of Structures Chopra

**Rachel Sandford**



## **Solution For Dynamics Of Structures Chopra:**

The book delves into Solution For Dynamics Of Structures Chopra. Solution For Dynamics Of Structures Chopra is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Solution For Dynamics Of Structures Chopra, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Solution For Dynamics Of Structures Chopra
- Chapter 2: Essential Elements of Solution For Dynamics Of Structures Chopra
- Chapter 3: Solution For Dynamics Of Structures Chopra in Everyday Life
- Chapter 4: Solution For Dynamics Of Structures Chopra in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Solution For Dynamics Of Structures Chopra. This chapter will explore what Solution For Dynamics Of Structures Chopra is, why Solution For Dynamics Of Structures Chopra is vital, and how to effectively learn about Solution For Dynamics Of Structures Chopra.

3. In chapter 2, the author will delve into the foundational concepts of Solution For Dynamics Of Structures Chopra. This chapter will elucidate the essential principles that need to be understood to grasp Solution For Dynamics Of Structures Chopra in its entirety.

4. In chapter 3, the author will examine the practical applications of Solution For Dynamics Of Structures Chopra in daily life. This chapter will showcase real-world examples of how Solution For Dynamics Of Structures Chopra can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Solution For Dynamics Of Structures Chopra in specific contexts. This chapter will explore how Solution For Dynamics Of Structures Chopra is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Solution For Dynamics Of Structures Chopra. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Solution For Dynamics Of Structures Chopra.

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