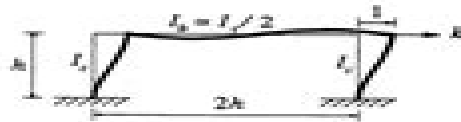


Problem 1.15



Define degrees of freedom (DOF):



Form structural stiffness matrix:

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



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

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

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



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

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

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

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



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

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

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

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

$$\mathbf{k} = \frac{EI_c}{h^3} \begin{bmatrix} 24 & 6h & 6h \\ 6h & 5h^2 & \frac{1}{2}h^2 \\ 6h & \frac{1}{2}h^2 & 5h^2 \end{bmatrix} = \begin{bmatrix} \mathbf{k}_{xx} & \mathbf{k}_{x0} \\ \mathbf{k}_{0x} & \mathbf{k}_{00} \end{bmatrix}$$

where

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

$$\mathbf{k}_{x0} = \frac{EI_c}{h^3} [6h \quad 6h]$$

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

Then compute the lateral stiffness k from

$$k = \mathbf{k}_{xx} - \mathbf{k}_{x0} \mathbf{k}_{00}^{-1} \mathbf{k}_{0x}$$

Since

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

we get

Stresses In Framed Structures 2nd Edition

Alexander Blake



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Stresses in Framed Structures George A. Hool, William Spaulding Kinne, 1923 *Fundamentals of Structural Mechanics and Analysis*, 2011-06-30 This book is a comprehensive presentation of the fundamental aspects of structural mechanics and analysis It aims to help develop in the students the ability to analyze structures in a simple and logical manner The major thrust in this book is on energy principles The text organized into sixteen chapters covers the entire syllabus of structural analysis usually prescribed in the undergraduate level civil engineering programme and covered in two courses The first eight chapters deal with the basic techniques for analysis based on classical methods of common determinate structural elements and simple structures The following eight chapters cover the procedures for analysis of indeterminate structures with emphasis on the use of modern matrix methods such as flexibility and stiffness methods including the finite element techniques Primarily designed as a textbook for undergraduate students of civil engineering the book will also prove immensely useful for professionals engaged in structural design and engineering Power and Power Transmission Eugene Wycliffe Kerr, 1914 **Practical Stress Analysis in Engineering Design, Second Edition**, Alexander Blake, 1989-10-23 This Second Edition presents a hands on design methodology for daily technical decisions without immersion in high mathematics **The Strains in Framed Structures, with Numerous Practical Applications to Cranes, Bridge, Roof and Suspension Trusses, Braced Arches, Pivot and Draw Spans, Continuous Girders, Etc** Augustus Jay Du Bois, 1883 **Building**, 1907 The Builder, 1907 **History of Modern Mathematics** David Eugene Smith, 1896 Outlines of Human Embryology George Reese Satterlee, 1914 **Elements of Applied Microscopy** Charles-Edward Amory Winslow, 1905

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