

Problem 1.16

1. Define degree of freedom (DOF).



2. Form the structural stiffness matrix.

$$u_1 = 1, \quad u_2 = u_3 = u_4 = u_5 = 0$$



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

$$k_{21} = k_{11} = k_{42} = k_{32} = \frac{6EI_c}{h^2}$$

$$u_2 = 1, \quad u_1 = u_3 = u_4 = u_5 = 0$$



$$k_{22} = \frac{4EI_c}{h}$$

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

$$k_{21} = \frac{2EI_c}{h}$$

$$k_{42} = k_{32} = 0$$

$$u_3 = 1, \quad u_1 = u_2 = u_4 = u_5 = 0$$



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

$$k_{13} = \frac{6EI_c}{h^2}, \quad k_{23} = \frac{2EI_c}{h}$$

$$k_{43} = \frac{2EI_c}{2(2h)} = \frac{EI_c}{2h}, \quad k_{53} = 0$$

$$u_4 = 1, \quad u_1 = u_2 = u_3 = u_5 = 0$$



$$k_{44} = \frac{4EI_c}{h} + \frac{4EI_c}{2(2h)} = \frac{5EI_c}{h}$$

$$k_{24} = \frac{6EI_c}{h^2}, \quad k_{34} = 0$$

$$k_{34} = \frac{2EI_c}{2(2h)} = \frac{EI_c}{2h}, \quad k_{54} = \frac{2EI_c}{h}$$

$$u_5 = 1, \quad u_1 = u_2 = u_3 = u_4 = 0$$



$$k_{55} = \frac{4EI_c}{h}$$

$$k_{15} = \frac{6EI_c}{h^2}$$

$$k_{45} = \frac{2EI_c}{h}$$

$$k_{25} = k_{35} = 0$$

Assemble the stiffness coefficients:

$$k = \frac{EI_c}{h^3} \begin{bmatrix} 24 & 6h & 6h & 6h & 6h \\ 6h & 4h^2 & 2h^2 & 0 & 0 \\ 6h & 2h^2 & 5h^2 & \frac{1}{2}h^2 & 0 \\ 6h & 0 & \frac{1}{2}h^2 & 5h^2 & 2h^2 \\ 6h & 0 & 0 & 2h^2 & 4h^2 \end{bmatrix}$$

3. Determine the lateral stiffness of the frame.

First partition k .

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J Ma



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Vibration and Shock Handbook Clarence W. de Silva, 2005-06-27 Every so often a reference book appears that stands apart from all others destined to become the definitive work in its field The Vibration and Shock Handbook is just such a reference From its ambitious scope to its impressive list of contributors this handbook delivers all of the techniques tools instrumentation and data needed to model analyze monitor modify and control vibration shock noise and acoustics Providing convenient thorough up to date and authoritative coverage the editor summarizes important and complex concepts and results into snapshot windows to make quick access to this critical information even easier The Handbook s nine sections encompass fundamentals and analytical techniques computer techniques tools and signal analysis shock and vibration methodologies instrumentation and testing vibration suppression damping and control monitoring and diagnosis seismic vibration and related regulatory issues system design application and control implementation and acoustics and noise suppression The book also features an extensive glossary and convenient cross referencing plus references at the end of each chapter Brimming with illustrations equations examples and case studies the Vibration and Shock Handbook is the most extensive practical and comprehensive reference in the field It is a must have for anyone beginner or expert who is serious about investigating and controlling vibration and acoustics *Vibration Monitoring, Testing, and Instrumentation* Clarence W. de Silva, 2007-04-19 Controlling a system s vibrational behavior whether for reducing harmful vibrations or for enhancing useful types is critical to ensure safe and economical operation as well as longer structural and equipment lifetimes A related issue is the effect of vibration on humans and their environment Achieving control of vibration requires thorough und

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