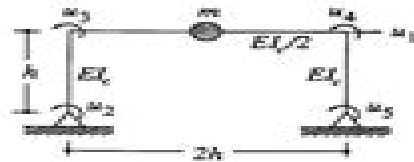


Problem 1.16

1. Define degree of freedom (DOF).



2. Form the structural stiffness matrix.

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



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

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

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



$$k_{23} = \frac{4EI_c}{h}, \quad k_{13} = \frac{6EI_c}{h^2}$$

$$k_{32} = \frac{2EI_c}{h}, \quad k_{43} = k_{33} = 0$$

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



$$k_{35} = \frac{4EI_c}{h} + \frac{4EI_c}{2(2h)} = \frac{5EI_c}{h}$$

$$k_{15} = \frac{6EI_c}{h^2}, \quad k_{25} = \frac{2EI_c}{h}$$

$$k_{45} = \frac{2EI_c}{2(2h)} = \frac{EI_c}{2h}, \quad k_{55} = 0$$

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



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

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

$$k_{34} = \frac{2EI_c}{2(2h)} = \frac{EI_c}{2h}, \quad k_{44} = \frac{2EI_c}{h}$$

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



$$k_{55} = \frac{4EI_c}{h}, \quad k_{15} = \frac{6EI_c}{h^2}$$

$$k_{45} = \frac{2EI_c}{h}, \quad k_{25} = k_{35} = 0$$

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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M Walker



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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 Three Dimensional Dynamic Analysis of Structures Edward L. Wilson, 1997 The purpose of this publication is to summarize the computational methods that are used in many modern computer programs for the seismic analysis of three dimensional structural systems After more than thirty years of working closely with structural engineers it has become apparent that a need exists for a book on the Three Dimensional Dynamic Analysis of Structures The necessary computational background to conduct seismic computer analyses of large structures needs to be simplified and understood In addition problems associated with the creation of complex three dimensional computer models and the interpretation of results is emphasized in this book *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 and **Proceedings of the 6th International Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures** Xiang-Lin Gu, Masoud Motavalli, Alper Ilki, Qian-Qian Yu, 2024-01-20 This book is a compilation of selected papers from the 6th International Conference on Smart Monitoring Assessment and Rehabilitation of Civil Structures SMAR 2022 The work focuses on the state of the practice and recent advances in testing and monitoring technology in structural modeling and assessment methods and in the application of advanced materials for structural rehabilitation The contents make valuable contributions to international professors research scientists professional engineers postdoctoral fellows and postgraduate students Manual of Seismic Design James L. Stratta, 1987 *Design and Analysis*

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