

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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Colin L. Kirk



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Dynamics of Structures Anil K. Chopra,2012-02-28 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book Designed for senior level and graduate courses in Dynamics of Structures and Earthquake Engineering Dynamics of Structures includes many topics encompassing the theory of structural dynamics and the application of this theory regarding earthquake analysis response and design of structures No prior knowledge of structural dynamics is assumed and the manner of presentation is sufficiently detailed and integrated to make the book suitable for self study by students and professional engineers

Earthquake Engineering Handbook Charles Scawthorn,Wai-Fah Chen,2002-09-27 Earthquakes are nearly unique among natural phenomena they affect virtually everything within a region from massive buildings and bridges down to the furnishings within a home Successful earthquake engineering therefore requires a broad background in subjects ranging from the geologic causes and effects of earthquakes to understanding the impact of these effects on foundations buildings structures the infrastructure and even their social and economic impact The Earthquake Engineering Handbook is a comprehensive resource that covers the spectrum of topics relevant to designing for and mitigating earthquakes In it international experts present engineering practices research and developments in North America Europe and the Pacific Rim countries The emphasis is on professional applications with discussion ranging from basic dynamics and geoscience to new technologies intended to avoid rather than resist the forces of earthquakes Covering both traditional and innovative practices the Earthquake Engineering Handbook is the first professional reference that brings together all of earthquake engineering s many facets Formulas tables and illustrations give immediate answers to questions arising in practice and summaries of the essential elements of each topic paint a global picture from which readers can develop understanding and the ability to think beyond the results presented

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 *Recent Advances in Structural Health Monitoring and Engineering Structures* Le Thanh Cuong, Amir H. Gandomi, Laith Abualigah, Samir Khatir, 2024-06-01 This book presents the select proceedings of the 3rd International Conference on Structural Health Monitoring Engineering Structures SHM ES 2023 It covers the recent advances in the fields related to structural health monitoring damage detection and assessment non destructive testing inverse problems optimization artificial neural networks and evaluation This book is useful for researchers and professionals working in the field of health monitoring of engineering structures Journal of Engineering Mechanics ,2005

Geotechnical Earthquake Engineering Steven L. Kramer, Jonathan P. Stewart, 2024-11-29 This fully updated second edition provides an introduction to geotechnical earthquake engineering for first year graduate students in geotechnical or earthquake engineering graduate programs with a level of detail that will also be useful for more advanced students as well as researchers and practitioners It begins with an introduction to seismology and earthquake ground motions then presents seismic hazard analysis and performance based earthquake engineering PBEE principles Dynamic soil properties pertinent to earthquake engineering applications are examined both to facilitate understanding of soil response to seismic loads and to describe their practical measurement as part of site characterization These topics are followed by site response and its analysis and soil structure interaction Ground failure in the form of soil liquefaction cyclic softening surface fault rupture and seismically induced landslides are also addressed and the book closes with a chapter on soil improvement and hazard mitigation The first edition has been widely used around the world by geotechnical engineers as well as many seismologists and structural engineers The main text of this book and the four appendices Cover fundamental concepts in applied seismology geotechnical engineering and structural dynamics Contain numerous references for further reading allowing for detailed exploration of background or more advanced material Present worked example problems that illustrate the application of key concepts emphasized in the text Include chapter summaries that emphasize the most important points Present concepts of performance based earthquake engineering with an emphasis on uncertainty and the types of probabilistic analyses needed to implement PBEE in practice Present a broad interdisciplinary narrative drawing from the fields of seismology geotechnical engineering and structural engineering to facilitate holistic understanding of how geotechnical earthquake engineering is applied in seismic hazard and risk analyses and in seismic design **Proceedings of the ASME Pressure Vessels and Piping Conference--2006: Seismic engineering** ,2007 *Report* ,1989-05

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