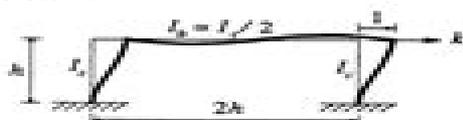


Problem 1.15



Define degrees of freedom (DOF):



Form structural stiffness matrix:

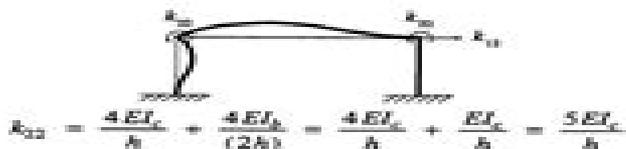
$$u_1 = 1, \quad u_2 = u_3 = 0$$



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

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

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



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

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

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

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



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

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

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

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

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Charles Scawthorn, Wai-Fah Chen



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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 **Dynamic Analysis of Offshore Structures** Colin L. Kirk, 1982 **Catalogs of Courses** University of California, Berkeley, 1995 Includes general and summer catalogs issued between 1878 1879 and 1995 1997 *Report* ,1989-05 **Applied Mechanics Reviews** ,1973 **Proceedings** International Association for Earthquake Engineering, 1989 Government Reports Announcements & Index ,1979 *Abstract Journal in Earthquake Engineering* ,1992 **Dynamic Analysis of**

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