

2.1 Solution

(a) Determine the equation of motion of the mass m in Fig. 1.

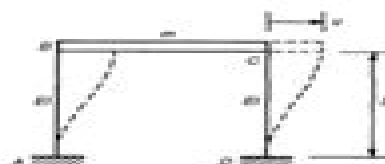


Figure 1

To determine the stiffness of the columns, we can use the unit dummy load method.



Figure 2

$$\begin{aligned} u &= \int_0^L \frac{(-Fx)(-x)}{EI} dx + \int_0^L \frac{M(-x)}{EI} dx \\ &= \frac{FL^3}{3EI} - \frac{ML^2}{2EI} \\ \theta &= \int_0^L \frac{(-Fx)(1)}{EI} dx + \int_0^L \frac{M(1)}{EI} dx \\ &= -\frac{FL^2}{2EI} + \frac{ML}{EI} \end{aligned}$$

Since $\theta = 0$,

$$M = \frac{FL}{2} \quad \text{and} \quad F = \frac{12EI}{L^2} u = ku$$

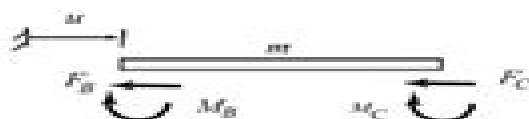


Figure 3

$$\sum F_x = m\ddot{u}$$

From the free-body diagram in Fig. 3,

$$-F_B - F_C = -\frac{12EI}{L^2} u - \frac{12EI}{L^2} u = m\ddot{u}$$

$$m\ddot{u} + \frac{24EI}{L^2} u = 0$$

Ans. (a)

(b) How would the equation of motion differ if the left-hand column had a stiffness $2EI$, with no other changes to the structure?

$$-F_B - F_C = -\frac{12(2EI)}{L^2} u - \frac{12EI}{L^2} u = m\ddot{u}$$

$$m\ddot{u} + \frac{36EI}{L^2} u = 0$$

Ans. (b)

Structural Dynamics Solutions Manual

**Andrey A. Radionov, Vadim R.
Gasiyarov**



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Structural Dynamics Tedesco,1999-06-01 **Structural Dynamics for Structural Engineers** Gary C. Hart,Kevin Kai Fai Wong,2000 **Structural Dynamics** Henry R. Busby,George H. Staab,2017-08-15 Structural Dynamics Concepts and Applications focuses on dynamic problems in mechanical civil and aerospace engineering through the equations of motion The text explains structural response from dynamic loads and the modeling and calculation of dynamic responses in structural systems A range of applications is included from various engineering disciplines Coverage progresses consistently from basic to advanced with emphasis placed on analytical methods and numerical solution techniques Stress analysis is discussed and MATLAB applications are integrated throughout A solutions manual and figure slides for classroom projection are available for instructors Structural Dynamics Peretz P. Friedmann,George A. Lesieutre,Danling Huang,2023-02-23 Master structural dynamics with this self contained textbook with key theoretical concepts explained via real world applications *Matrix Analysis of Structural Dynamics* Franklin Y. Cheng,2017-09-06 Uses state of the art computer technology to formulate displacement method with matrix algebra Facilitates analysis of structural dynamics and applications to earthquake engineering and UBC and IBC seismic building codes Solutions Manual to Accompany Vibration of Mechanical and Structural Systems James,1994-01-01 **Proceedings of the 7th International Conference on Industrial Engineering (ICIE 2021)** Andrey A. Radionov,Vadim R. Gasiyarov,2022-01-01 This book highlights recent findings in industrial manufacturing and mechanical engineering and provides an overview of the state of the art in these fields mainly in Russia and Eastern Europe A broad range of topics and issues in modern engineering is discussed including the dynamics of machines and working processes friction wear and lubrication in machines surface transport and technological machines manufacturing engineering of industrial facilities materials engineering metallurgy control systems and their industrial applications industrial mechatronics automation and robotics The book gathers selected papers presented at the 7th International Conference on Industrial Engineering ICIE held in Sochi Russia in May 2021 The authors are experts in various fields of engineering and all papers have been carefully reviewed Given its scope the book will be of interest to a wide readership including mechanical and production engineers lecturers in engineering disciplines and engineering graduates **Introduction to Earthquake Engineering** Hector Estrada,Luke S. Lee,2017-05-18 This book is intended primarily as a textbook for students studying structural engineering It covers three main areas in the analysis and design of structural systems subjected to seismic loading basic seismology basic structural dynamics and code based calculations used to determine seismic loads from an equivalent static method and a dynamics based method It provides students with the skills to determine seismic effects on structural systems and is unique in that it combines the fundamentals of structural dynamics with the latest code specifications Each chapter contains electronic resources image galleries PowerPoint presentations a solutions manual etc European Seismic Design Practice - Research and Application A.S.

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web alfie in the snow alfie series rachel wells amazon com tr kitap Çerez tercihlerinizi seçin Çerez bildirimimizde ayrıntılı şekilde açıklandığı üzere alışveriş yapmanızı sağlamak alışveriş deneyiminizi iyileştirmek ve hizmetlerimizi sunmak için gerekli olan çerezleri ve benzer araçları kullanırız

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sunmak müşterilerin hizmetlerimizi nasıl kullandığını anlayarak iyileştirmeler yapabilmek ve tanıtımları gösterebilmek için çerezler ve benzeri araçları kullanmaktayız