

2.1 Solution

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

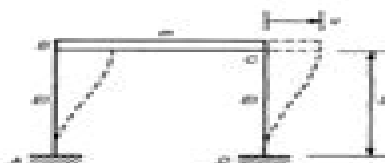


Figure 1

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 $\theta = 0$,

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

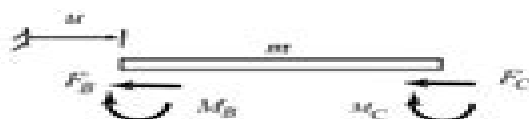


Figure 3

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

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)

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M Planty



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Fundamentals of Structural Dynamics Roy R. Craig, Jr., Andrew J. Kurdila, 2011-08-24 FUNDAMENTALS OF STRUCTURAL DYNAMICS From theory and fundamentals to the latest advances in computational and experimental modal analysis this is the definitive updated reference on structural dynamics This edition updates Professor Craig's classic introduction to structural dynamics which has been an invaluable resource for practicing engineers and a textbook for undergraduate and graduate courses in vibrations and or structural dynamics Along with comprehensive coverage of structural dynamics fundamentals finite element based computational methods and dynamic testing methods this Second Edition includes new and expanded coverage of computational methods as well as introductions to more advanced topics including experimental modal analysis and active structures With a systematic approach it presents solution techniques that apply to various engineering disciplines It discusses single degree of freedom SDOF systems multiple degrees of freedom MDOF systems and continuous systems in depth and includes numeric evaluation of modes and frequency of MDOF systems direct integration methods for dynamic response of SDOF systems and MDOF systems and component mode synthesis Numerous illustrative examples help engineers apply the techniques and methods to challenges they face in the real world MATLAB is extensively used throughout the book and many of the m files are made available on the book's Web site Fundamentals of Structural Dynamics Second Edition is an indispensable reference and refresher course for engineering professionals and a textbook for seniors or graduate students in mechanical engineering civil engineering engineering mechanics or aerospace engineering

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

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lecturers in engineering disciplines and engineering graduates The Shock and Vibration Digest ,1989-07 **Structural Dynamics** Harry Grundmann, Gerhart I. Schuëller, 2002 The proceedings contain contributions presented by authors from more than 30 countries at EURO DYN 2002 The proceedings show recent scientific developments as well as practical applications they cover the fields of theory of vibrations nonlinear vibrations stochastic dynamics vibrations of structured elements wave propagation and structure borne sound including questions of fatigue and damping Emphasis is laid on vibrations of bridges buildings railway structures as well as on the fields of wind and earthquake engineering respectively Enriched by a number of keynote lectures and organized sessions the two volumes of the proceedings present an overview of the state of the art of the whole field of structural dynamics and the tendencies of its further development **COSMIC** United States. National Aeronautics and Space Administration, 1977 **EARTHQUAKE RESISTANT DESIGN OF STRUCTURES** AGRAWAL, PANKAJ ,SHRIKHANDE, MANISH ,2006-01-01 This comprehensive and well organized book presents the concepts and principles of earthquake resistant design of structures in an easy to read style The use of these principles helps in the implementation of seismic design practice The book adopts a step by step approach starting from the fundamentals of structural dynamics to application of seismic codes in analysis and design of structures The text also focusses on seismic evaluation and retrofitting of reinforced concrete and masonry buildings The text has been enriched with a large number of diagrams and solved problems to reinforce the understanding of the concepts Intended mainly as a text for undergraduate and postgraduate students of civil engineering this text would also be of considerable benefit to practising engineers architects field engineers and teachers in the field of earthquake resistant design of structures **Scientific and Technical Aerospace Reports** ,1995 Computational Methods in Stochastic Dynamics Manolis Papadrakakis, George Stefanou, Vissarion Papadopoulos, 2012-09-26 The considerable influence of inherent uncertainties on structural behavior has led the engineering community to recognize the importance of a stochastic approach to structural problems Issues related to uncertainty quantification and its influence on the reliability of the computational models are continuously gaining in significance In particular the problems of dynamic response analysis and reliability assessment of structures with uncertain system and excitation parameters have been the subject of continuous research over the last two decades as a result of the increasing availability of powerful computing resources and technology This book is a follow up of a previous book with the same subject ISBN 978 90 481 9986 0 and focuses on advanced computational methods and software tools which can highly assist in tackling complex problems in stochastic dynamic seismic analysis and design of structures The selected chapters are authored by some of the most active scholars in their respective areas and represent some of the most recent developments in this field The book consists of 21 chapters which can be grouped into several thematic topics including dynamic analysis of stochastic systems reliability based design structural control and health monitoring model updating system identification wave propagation in random media seismic fragility analysis and damage assessment This edited book is primarily intended

for researchers and post graduate students who are familiar with the fundamentals and wish to study or to advance the state of the art on a particular topic in the field of computational stochastic structural dynamics Nevertheless practicing engineers could benefit as well from it as most code provisions tend to incorporate probabilistic concepts in the analysis and design of structures

Large Space Structures: Dynamics and Control S.N. Atluri,A.K. Amos,2012-12-06 This monograph is intended to provide a snapshot of the status and opportunities for advancement in the technologies of dynamics and control of large flexible spacecraft structures It is a reflection of the serious dialog and assessments going on all over the world across a wide variety of scientific and technical disciplines as we contemplate the next major milestone in mankind's romance with space the transition from exploration and experimentation to commercial and defense exploitation This exploitation is already in full swing in the space communications area Both military and civilian objectives are being pursued with increasingly more sophisticated systems such as large antenna reflectors with active shape control Both the NATO and Warsaw pact alliances are pursuing permanent space stations in orbit large structural systems whose development calls for in situ fabrication and or assembly and whose operation will demand innovations in controls technology The last ten years have witnessed a fairly brisk research activity in the dynamics and control of large space structures in order to establish a technology base for the development of advanced spacecraft systems envisioned for the future They have spanned a wide spectrum of activity from fundamental methods development to systems concept studies and laboratory experimentation and demonstrations Some flight experiments have also been conducted for various purposes such as the characterization of the space environment durability of materials and devices in that environment assembly and repair operations and the dynamic behavior of flexible structures It is this last area that has prompted this monogram

Shock and Vibration Computer Programs Barbara Pilkey,1975

Blast Resistant Structures ,1986

Contact-impact Problems: Engineering report and user's

manual Robert Leroy Taylor,1980

Structural Dynamic Systems Computational Techniques and Optimization

Cornelius T. Leondes,2021-09-02 The finite element an approximation method for solving differential equations of mathematical physics is a highly effective technique in the analysis and design or synthesis of structural dynamic systems Starting from the system differential equations and its boundary conditions what is referred to as a weak form of the problem elaborated in the text is developed in a variational sense This variational statement is used to define elemental properties that may be written as matrices and vectors as well as to identify primary and secondary boundaries and all possible boundary conditions Specific equilibrium problems are also solved This book clearly reveals the effectiveness and great significance of the finite element method available and the essential role it will play in the future as further development occurs

Air Force Design Manual Nathan Mortimore Newmark,J. D. Hiltiwanger,1962

Manual of Numerical Methods in Concrete M Y H Bangash,2001-07-27 Manual of numerical methods in concrete aims to present a unified approach for the available mathematical models of concrete linking them to finite element analysis and to computer

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