



PROBLEM 19.11

A 2 kg block is supported as shown by a spring of constant $k = 400 \text{ N/m}$, which can act in tension or compression. The block is in its equilibrium position when it is struck from below by a hammer, which imparts to the block an upward velocity of 2.5 m/s . Determine (a) the time required for the block to move 100 mm upward, (b) the corresponding velocity and acceleration of the block.

SOLUTION

Simple harmonic motion.

Natural frequency:

$$x = x_m \sin(\omega_n t + \phi)$$

$$\omega_n = \sqrt{\frac{k}{m}}, \quad k = 400 \text{ N/m}$$

$$\omega_n = \sqrt{\frac{400 \text{ N/m}}{2}}$$

$$\omega_n = 10\sqrt{2} = 14.1421 \text{ rad/s}$$

$$x(0) = 0 = x_m \sin(0 + \phi)$$

$$\phi = 0$$

$$\dot{x}(0) = x_m \omega_n \cos(0 + 0)$$

$$\dot{x}(0) = 2.5 \text{ m/s}$$

$$2.5 = x_m (14.1421) \quad x_m = 0.17678 \text{ m}$$

$$x = (0.17678) \sin(14.1421 t) \text{ (m/s)}$$

(1)

(a) Time at $x = 100 \text{ mm}$ ($x = 0.1 \text{ m}$)

$$0.1 = 0.17678 \sin(14.1421 t)$$

$$t = \frac{\sin^{-1}\left(\frac{0.1}{0.17678}\right)}{14.1421} = 0.04252 \text{ s}$$

$$t = 0.046 \text{ s}$$

Note: Since ω is in rad/s, convert the argument of \sin^{-1} to radians.

(b) Velocity and acceleration.

$$\dot{x} = x_m \omega_n \cos(\omega_n t)$$

$$\ddot{x} = -x_m \omega_n^2 \sin \omega_n t$$

$$t = 0.04252$$

$$\dot{x} = (0.17678)(14.1421) \cos[(14.1421)(0.04252)]$$

$$\dot{x} = 2.0615 \text{ m/s}$$

$$v = 2.06 \text{ m/s} \uparrow$$

$$\ddot{x} = -(0.1768)(14.1421)^2 \sin[(14.1421)(0.04252)]$$

$$= -20 \text{ m/s}^2$$

$$a = 20.0 \text{ m/s}^2 \downarrow$$



Dynamics Vibrations Solution Manual

Franklin Y. Cheng



Dynamics Vibrations Solution Manual:

Mechanical Vibration, 5th Edition, Solutions Manual Haym Benaroya, Mark Nagurka, Seon Mi Han, 2022-07-15 No detailed description available for Mechanical Vibration 5th Edition Solutions Manual **Solutions Manual for the Engineer-in-training Reference Manual** Michael R. Lindeburg, 1992 This Solutions Manual contains answers to the practice problems in the E I T Reference Manual presented in English units **Solutions Manual to Accompany Vibration of Mechanical and Structural Systems** James, 1994-01-01 **Fundamentals of Mechanical Vibrations** Liang-Wu Cai, 2016-04-25 This introductory book covers the most fundamental aspects of linear vibration analysis for mechanical engineering students and engineers Consisting of five major topics each has its own chapter and is aligned with five major objectives of the book It starts from a concise rigorous and yet accessible introduction to Lagrangian dynamics as a tool for obtaining the governing equations for a system the starting point of vibration analysis The second topic introduces mathematical tools for vibration analyses for single degree of freedom systems In the process every example includes a section Exploring the Solution with MATLAB This is intended to develop student's affinity to symbolic calculations and to encourage curiosity driven explorations The third topic introduces the lumped parameter modeling to convert simple engineering structures into models of equivalent masses and springs The fourth topic introduces mathematical tools for general multiple degrees of freedom systems with many examples suitable for hand calculation and a few computer aided examples that bridges the lumped parameter models and continuous systems The last topic introduces the finite element method as a jumping point for students to understand the theory and the use of commercial software for vibration analysis of real world structures **Structural Vibration** C. Beards, 1996-05-31 Many structures suffer from unwanted vibrations and although careful analysis at the design stage can minimise these the vibration levels of many structures are excessive In this book the entire range of methods of control both by damping and by excitation is described in a single volume Clear and concise descriptions are given of the techniques for mathematically modelling real structures so that the equations which describe the motion of such structures can be derived This approach leads to a comprehensive discussion of the analysis of typical models of vibrating structures excited by a range of periodic and random inputs Careful consideration is also given to the sources of excitation both internal and external and the effects of isolation and transmissibility A major part of the book is devoted to damping of structures and many sources of damping are considered as are the ways of changing damping using both active and passive methods The numerous worked examples liberally distributed throughout the text amplify and clarify the theoretical analysis presented Particular attention is paid to the meaning and interpretation of results further enhancing the scope and applications of analysis Over 80 problems are included with answers and worked solutions to most This book provides engineering students designers and professional engineers with a detailed insight into the principles involved in the analysis and damping of structural vibration while presenting a sound theoretical basis for further study Suitable for students

of engineering to first degree level and for designers and practising engineers Numerous worked examples Clear and easy to follow

Dynamics of Civil Structures, Volume 2 Shamim Pakzad, 2020-09-22 Dynamics of Civil Structures Volume 2 Proceedings of the 38th IMAC A Conference and Exposition on Structural Dynamics 2020 the second volume of eight from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of the Dynamics of Civil Structures including papers on Structural Vibration Humans Structures Innovative Measurement for Structural Applications Smart Structures and Automation Modal Identification of Structural Systems Bridges and Novel Vibration Analysis Sensors and Control

Engineering Vibration Analysis with Application to Control Systems C. Beards, 1995-06-17 Most machines and structures are required to operate with low levels of vibration as smooth running leads to reduced stresses and fatigue and little noise This book provides a thorough explanation of the principles and methods used to analyse the vibrations of engineering systems combined with a description of how these techniques and results can be applied to the study of control system dynamics Numerous worked examples are included as well as problems with worked solutions and particular attention is paid to the mathematical modelling of dynamic systems and the derivation of the equations of motion All engineers practising and student should have a good understanding of the methods of analysis available for predicting the vibration response of a system and how it can be modified to produce acceptable results This text provides an invaluable insight into both

Theory of Vibration Protection Igor A. Karnovsky, Evgeniy Lebed, 2016-05-09 This text is an advancement of the theory of vibration protection of mechanical systems with lumped and distributed parameters The book offers various concepts and methods of solving vibration protection problems discusses the advantages and disadvantages of different methods and the fields of their effective applications Fundamental approaches of vibration protection which are considered in this book are the passive parametric and optimal active vibration protection The passive vibration protection is based on vibration isolation vibration damping and dynamic absorbers Parametric vibration protection theory is based on the Shchipanov Luzin invariance principle Optimal active vibration protection theory is based on the Pontryagin principle and the Krein moment method The book also contains special topics such as suppression of vibrations at the source of their occurrence and the harmful influence of vibrations on humans p Numerous examples which illustrate the theoretical ideas of each chapter are included This book is intended for graduate students and engineers It is assumed that a reader has working knowledge of theory of vibrations differential equations and complex analysis About the Authors Igor A Karnovsky Ph D Dr Sci is a specialist in structural analysis theory of vibration and optimal control of vibration He has 40 years of experience in research teaching and consulting in this field and is the author of more than 70 published scientific papers including two books in Structural Analysis published with Springer in 2010 2012 and three handbooks in Structural Dynamics published with McGraw Hill in 2001 2004 He also holds a number of vibration control related patents Evgeniy Lebed Ph D is a specialist in applied

mathematics and engineering He has 10 years of experience in research teaching and consulting in this field The main sphere of his research interests are qualitative theory of differential equations integral transforms and frequency domain analysis with application to image and signal processing He is the author of 15 published scientific papers and a US patent 2015

Reliability Evaluation of Dynamic Systems Excited in Time Domain - Redset Achintya Haldar, Hamoon Azizoltani, J. Ramon Gaxiola-Camacho, Sayyed Mohsen Vazirizade, Jungwon Huh, 2023-03-21

RELIABILITY EVALUATION OF DYNAMIC SYSTEMS EXCITED IN TIME DOMAIN REDSET Multi disciplinary approach to structural reliability analysis for dynamic loadings offering a practical alternative to the random vibration theory and simulation Reliability Evaluation of Dynamic Systems Excited in Time Domain REDSET is a multidisciplinary concept that enables readers to estimate the underlying risk that could not be solved in the past The major hurdle was that the required limit state functions LSFs are implicit in nature and the lack of progress in the reliability evaluation methods for this class of problems The most sophisticated deterministic analysis requires that the dynamic loadings must be applied in the time domain To satisfy these requirements REDSET is developed Different types and forms of dynamic loadings including seismic wind induced wave and thermomechanical loading in the form of heating and cooling of solder balls used in computer chips are considered to validate REDSET Time domain representations and the uncertainty quantification procedures including the use of multiple time histories are proposed and demonstrated for all these dynamic loadings Both onshore and offshore structures are used for validation The potential of REDSET is demonstrated for implementing the Performance Based Seismic Design PBSD concept now under development in the United States For wider multidisciplinary applications structures are represented by finite elements to capture different types of nonlinearity more appropriately Any computer program capable of conducting nonlinear time domain dynamic analysis can be used and the underlying risk can be estimated with the help of several dozens or hundreds of deterministic finite element analyses providing an alternative to the simulation approach To aid comprehension of REDSET numerous illustrative examples and solution strategies are presented in each chapter Written by award winning thought leaders from academia and professional practice the following sample topics are included Fundamentals of reliability assessment including set theory modeling of uncertainty the risk based engineering design concept and the evolution of reliability assessment methods Implicit performance or limit state functions are expressed explicitly by the extensively modified response surface method with several new experimental designs Uncertainty quantification procedures with multiple time histories for different dynamic loadings illustrated with examples The underlying risk can be estimated using any computer program representing structures by finite elements with only few deterministic analyses REDSET is demonstrated to be an alternative to the classical random vibration concept and the basic simulation procedure for risk estimation purposes REDSET changes the current engineering design paradigm Instead of conducting one deterministic analysis a design can be made more dynamic load tolerant resilient and sustainable with the

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dynamic and vibrational systems Contrasted with a forward problem which solves for the system output in a straightforward manner an inverse problem searches for the system input through a procedure contaminated with errors and uncertainties An inverse problem with a focus on structural dynamics determines the changes made to the system and estimates the inputs including forces and moments to the system utilizing measurements of structural vibration responses only With its complex mathematical structure and need for more reliable input estimations the inverse problem is still a fundamental subject of research among mathematicians and engineering scientists This book contains 11 articles that touch upon various aspects of inverse dynamic problems

Dynamic Response of Linear Mechanical Systems Jorge Angeles,2011-09-15 Dynamic Response of Linear Mechanical Systems Modeling Analysis and Simulation can be utilized for a variety of courses including junior and senior level vibration and linear mechanical analysis courses The author connects by means of a rigorous yet intuitive approach the theory of vibration with the more general theory of systems The book features A seven step modeling technique that helps structure the rather unstructured process of mechanical system modeling A system theoretic approach to deriving the time response of the linear mathematical models of mechanical systems The modal analysis and the time response of two degree of freedom systems the first step on the long way to the more elaborate study of multi degree of freedom systems using the Mohr circle Simple yet powerful simulation algorithms that exploit the linearity of the system for both single and multi degree of freedom systems Examples and exercises that rely on modern computational toolboxes for both numerical and symbolic computations as well as a Solutions Manual for instructors with complete solutions of a sample of end of chapter exercises Chapters 3 and 7 on simulation include in each Exercises section a set of miniprojects that require code writing to implement the algorithms developed in these chapters

Advanced Mechatronics Solutions Ryszard Jabłoński,Tomas Brezina,2015-11-02 Focusing on the most rapidly changing areas of mechatronics this book discusses signals and system control mechatronic products metrology and nanometrology automatic control robotics biomedical engineering photonics design manufacturing and testing of MEMS It is reflected in the list of contributors including an international group of 302 leading researchers representing 12 countries The book is intended for use in academic government and industry R D departments as an indispensable reference tool for the years to come This volume can serve a global community as the definitive reference source in Mechatronics The book comprises carefully selected 93 contributions presented at the 11th International Conference Mechatronics 2015 organized by Faculty of Mechatronics Warsaw University of Technology on September 21 23 in Warsaw Poland

Shock and Vibration Computer Programs Barbara Pilkey,1975 **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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