Problems and Solutions Section 1.1 (1.1 through 1.26)

1.1 Consider a simple pendulum (see Example 1.1.1) and compute the magnitude of the restoring force if the mass of the pendulum is 3 kg and the length of the pendulum is 0.8 m. Assume the pendulum is at the surface of the earth at sea level.

Solution: From example 1.1.1, the restoring force of the pendulum is $mgf \sin \theta$, which has maximum value

$$mgl = 3 \times 9.81 \times 0.81m = 23.8383 \frac{kg.m.m}{sec^2} = 23.8383 \text{ N} \cdot \text{m}$$

- 1.2 Compute the period of oscillation of a pendulum of length 1.2 m at the North Pole where the acceleration due to gravity is measured to be 9.832 m/s².
 - Solution: The natural frequency and period can be computed with the following relationships:

$$\omega_n = \sqrt{\frac{g}{l}}$$

$$\omega_n = \sqrt{\frac{9.832 \frac{m}{s^2}}{1.2m}}$$

$$T = \frac{2\pi}{\omega_n}$$

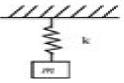
$$\Rightarrow T = 2\pi \sqrt{\frac{1.2}{9.832}}$$

$$T = 2.19s$$

1.3 The spring of Figure 1.2, repeated here as Figure P1.3, is loaded with mass of 10 kg and the corresponding (static) displacement is 0.012 m. Calculate the spring's stiffness.

Solution:

Free-body diagram:





From the free-body diagram and static equilibrium:

$$kx = mg (g = 9.81 m/s^2)$$

$$k = \frac{mg}{x}$$

$$= \frac{10 \cdot 9.81N}{0.01 m} = 8175 N/m$$

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Engineering Vibrations William J. Bottega, 2014-12-11 A thorough study of the oscillatory and transient motion of mechanical and structural systems Engineering Vibrations Second Edition presents vibrations from a unified point of view and builds on the first edition with additional chapters and sections that contain more advanced graduate level topics Using numerous examples and case studies the author reviews basic principles incorporates advanced abstract concepts from first principles and weaves together physical interpretation and fundamental principles with applied problem solving This revised version combines the physical and mathematical facets of vibration and emphasizes the connecting ideas concepts and Vibration with Control Daniel J. Inman, 2006-11-02 Engineers are becoming increasingly aware of the techniques problems caused by vibration in engineering design particularly in the areas of structural health monitoring and smart structures Vibration is a constant problem as it can impair performance and lead to fatigue damage and the failure of a structure Control of vibration is a key factor in preventing such detrimental results This book presents a homogenous treatment of vibration by including those factors from control that are relevant to modern vibration analysis design and measurement Vibration and control are established on a firm mathematical basis and the disciplines of vibration control linear algebra matrix computations and applied functional analysis are connected Key Features Assimilates the discipline of contemporary structural vibration with active control Introduces the use of Matlab into the solution of vibration and vibration control problems Provides a unique blend of practical and theoretical developments Contains examples and problems along with a solutions manual and power point presentations Vibration with Control is an essential text for practitioners researchers and graduate students as it can be used as a reference text for its complex chapters and topics or in a tutorial setting for those improving their knowledge of vibration and learning about control for the first time Whether or not you are familiar with vibration and control this book is an excellent introduction to this emerging and increasingly important engineering discipline The Engineering Handbook Richard C Dorf, 2018-10-03 First published in 1995 The Engineering

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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 Evgeniv 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 **Mechanical Vibrations** Shrikant Bhave, 2010 Mechanical Vibrations is an unequaled combination of conventional vibration techniques along with analysis design computation and testing Emphasis is given on solving vibration related issues and failures in industry of Applied Dynamic Analysis Junbo Jia, 2014-01-09 This book presents up to date knowledge of dynamic analysis in engineering world To facilitate the understanding of the topics by readers with various backgrounds general principles are linked to their applications from different angles Special interesting topics such as statistics of motions and loading damping modeling and measurement nonlinear dynamics fatigue assessment vibration and buckling under axial loading structural health monitoring human body vibrations and vehicle structure interactions etc are also presented. The target readers include industry professionals in civil marine and mechanical engineering as well as researchers and students in this area The **Shock and Vibration Digest** ,1993 Handbook of Experimental Structural Dynamics Randall Allemang, Peter Avitabile, 2022-06-30 The SEM Handbook of Experimental Structural Dynamics stands as a comprehensive overview and reference for its subject applicable to workers in research product design and manufacture and practice The Handbook is devoted primarily to the areas of structural mechanics served by the Society for Experimental Mechanics IMAC community such as modal analysis rotating machinery structural health monitoring shock and vibration sensors and instrumentation aeroelasticity ground testing finite element techniques model updating sensitivity analysis verification and validation experimental dynamics sub structuring quantification of margin and uncertainty and testing of civil infrastructure Chapters offer comprehensive detailed coverage of decades of scientific and technologic advance and all demonstrate an experimental perspective Several sections specifically discuss the various types of experimental testing and common practices utilized in the automotive aerospace and civil structures industries History of Experimental Structural Mechanics DIC Methods Dynamic Photogrammetry LDV Methods Applied Digital Signal Processing Introduction to Spectral Basic Measurements Structural Measurements FRF Random and Shock Testing Rotating System Analysis Methods Sensors Signal Conditioning Instrumentation Design of Modal Tests Experimental Modal Methods Experimental Modal Parameter Evaluation Operating Modal Analysis Methods Analytical Numerical Substructuring Finite Element Model Correlation Model Updating Damping of Materials and Structures Model Calibration and Validation in Structures Uncertainty Quantification UQ QMU and Statistics Nonlinear System Analysis Methods Experimental Structural Health Monitoring and Damage Detection Experimental

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