

2.34 Given: $G = 80 \times 10^9 \text{ N/m}^2$, $L = 2.5 \text{ m}$, $r_i = 10 \text{ cm}$, $r_o = 15 \text{ cm}$. The polar moment of inertia is $J = \frac{\pi}{2} (r_o^4 - r_i^4) = \frac{\pi}{2} [(0.15)^4 - (0.1)^4] = 6.38 \times 10^{-4} \text{ m}^4$. The torsional stiffness of the shaft is $k_t = \frac{JG}{L} = \frac{(6.38 \times 10^{-4} \text{ m}^4)(80 \times 10^9 \text{ N/m}^2)}{2.5 \text{ m}} = 2.04 \times 10^7 \text{ N} \cdot \text{m/rad}$.

2.35 Given: $G = 40 \times 10^9 \text{ N/m}^2$, $L = 1.8 \text{ m}$, $r = 25 \text{ cm}$. The polar moment of inertia is $J = \frac{\pi}{2} r^4 = \frac{\pi}{2} (0.25)^4 = 6.12 \times 10^{-3} \text{ m}^4$. The torsional stiffness of the shaft is $k_t = \frac{JG}{L} = \frac{(6.12 \times 10^{-3} \text{ m}^4)(40 \times 10^9 \text{ N/m}^2)}{1.8 \text{ m}} = 1.36 \times 10^8 \text{ N} \cdot \text{m/rad}$.

2.36 Given: $E = 200 \times 10^9 \text{ N/m}^2$, $L = 2.3 \text{ m}$, rectangular cross-section $5 \text{ cm} \times 6 \text{ cm}$. The longitudinal stiffness of the bar is $k = \frac{AE}{L} = \frac{(0.05 \text{ m})(0.06 \text{ m})(200 \times 10^9 \text{ N/m}^2)}{2.3 \text{ m}} = 2.61 \times 10^6 \text{ N/m}$.

2.37 Given: $E = 200 \times 10^9 \text{ N/m}^2$, $L = 10 \mu\text{m}$, beam of rectangular cross section of width $1 \mu\text{m}$ and height $0.5 \mu\text{m}$. The stiffness of a cantilever beam at its end is $k = \frac{3EI}{L^3} = \frac{3(200 \times 10^9 \text{ N/m}^2)(1 \mu\text{m})(0.5 \mu\text{m})^3/12}{(10 \mu\text{m})^3} = 6.25 \text{ N/m}$.

2.38 Given: $k = 4000 \text{ N/m}$, $m = 20 \text{ kg}$. The static deflection of the spring is $\Delta_s = \frac{mg}{k} = \frac{(20 \text{ kg})(9.81 \text{ m/s}^2)}{4000 \text{ N/m}} = 4.91 \text{ cm}$.

2.39 Given: $\ell = 10 \text{ cm}$, $\rho = 2.3 \text{ g/cm}$, $m = 150 \text{ g}$. The mass of the spring is $m_s = \rho\ell = (2.3 \text{ g/cm}) \left(\frac{1 \text{ kg}}{1000 \text{ g}} \right) \left(\frac{100 \text{ cm}}{\text{m}} \right) (0.1 \text{ m}) = 0.023 \text{ kg} = 23 \text{ g}$. The added mass is $m_a = \frac{m_s}{3} = 7.67 \text{ g}$.

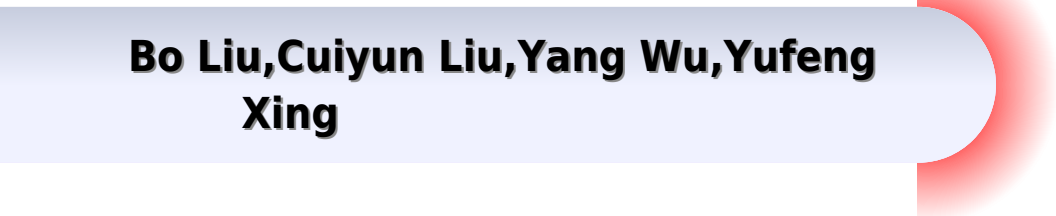
2.40 Given: System of Figure SP2.40. The inertia effects of the springs are approximated by adding a particle of mass $m_s/3$ to the center of the disk and a particle of mass $m_s/3$ to the suspended block. The total kinetic energy of the system is $T = T_{\text{disk}} + T_{\text{pulley}} + T_{\text{block}} + T_{\text{spring1}} + T_{\text{spring2}}$. The kinetic energy of the block and the second spring is $T_{\text{block}} + T_{\text{spring2}} = \frac{1}{2} m_1 \dot{x}^2 + \frac{1}{2} \frac{m_s}{3} \dot{x}^2$. The angular displacement of the pulley is $\theta = \frac{x}{r_2}$ and its kinetic energy is $T_{\text{pulley}} = \frac{1}{2} I \left(\frac{\dot{x}}{r_2} \right)^2 = \frac{1}{2} \frac{I}{r_2^2} \dot{x}^2$. The displacement of the center of the disk is $y = r_1 \theta = \frac{r_1}{r_2} x$. The disk rolls



FIGURE SP2.40

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**Bo Liu, Cuiyun Liu, Yang Wu, Yufeng
Xing**



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Solutions Manual to Accompany Vibration Analysis Robert K. Vierck, 1979 Solutions Manual to Accompany Mechanical Vibrations Francis S. Tse, 1978 Vibrations, Dynamics and Structural Systems 2nd edition Madhujit Mukhopadhyay, 2023-06-14 This textbook is the student edition of the work on vibrations dynamics and structural systems There are exercises included at the end of each chapter **Mechanical Vibrations, 2nd Edition** Mehta J.S. and Kailey A.S., Written specifically for the students of Mechanical Engineering Mechanical Vibrations is a succinctly written textbook Without being verbose the textbook delves into all concepts related to the subject and deals with them in a laconic manner Concepts such as Freedom Systems Vibration Measurement and Transient Vibrations have been treated well for the student to get profounder knowledge in the subject **Dynamics of Structures: Second Edition** J. Humar, 2002-01-01 This major textbook provides comprehensive coverage of the analytical tools required to determine the dynamic response of structures The topics covered include formulation of the equations of motion for single as well as multi degree of freedom discrete systems using the principles of both vector mechanics and analytical mechanics free vibration response determination of frequencies and mode shapes forced vibration response to harmonic and general forcing functions dynamic analysis of continuous systems and wave propagation analysis The key assets of the book include comprehensive coverage of both the traditional and state of the art numerical techniques of response analysis such as the analysis by numerical integration of the equations of motion and analysis through frequency domain The large number of illustrative examples and exercise problems are of great assistance in improving clarity and enhancing reader comprehension The text aims to benefit students and engineers in the civil mechanical and aerospace sectors Vibration Clarence W. de Silva, 2006-09-14 Maintaining the outstanding features and practical approach that led the bestselling first edition to become a standard textbook in engineering classrooms worldwide Clarence de Silva's Vibration Fundamentals and Practice Second Edition remains a solid instructional tool for modeling analyzing simulating measuring monitoring testing controlling and designing for vibration in engineering systems It condenses the author's distinguished and extensive experience into an easy to use highly practical text that prepares students for real problems in a variety of engineering fields What's New in the Second Edition A new chapter on human response to vibration with practical considerations Expanded and updated material on vibration monitoring and diagnosis Enhanced section on vibration control updated with the latest techniques and methodologies New worked examples and end of chapter problems Incorporates software tools including LabVIEW™ SIMULINK MATLAB the LabVIEW Sound and Vibration Toolbox and the MATLAB Control Systems Toolbox Enhanced worked examples and new solutions using MATLAB and SIMULINK The new chapter on human response to vibration examines representation of vibration detection and perception by humans as well as specifications and regulatory guidelines for human vibration environments Remaining an indispensable text for advanced undergraduate and graduate students Vibration Fundamentals

and Practice Second Edition builds a unique and in depth understanding of vibration on a sound framework of practical tools and applications Vibration of Functionally Graded Beams and Plates Snehashish Chakraverty, Karan Kumar

Pradhan, 2016-02-11 Vibration of Functionally Graded Beams and Plates uses numerically efficient computational techniques to analyze vibration problems associated with FG beams and plates Introductory material on FG materials and structural members as well as a range of vibration and shear deformation theories are discussed providing a valuable summary of these broader themes The latest research and analysis of vibration in FG materials is presented in an application oriented manner linking the research to its importance in fields such as aerospace nuclear power and automotive engineering The book also features research on the complicating effects of thermal environments piezoelectricity and elastic foundations The innovative computational procedures and simulation results are shown in full throughout providing a uniquely valuable resource for users of numerical modeling software This book is essential reading for any researcher or practitioner interested in FG materials or the design of technology for the nuclear power aerospace and automotive industries Defines the basic preliminaries of vibration and FG materials Introduces historical background and recent developments in functionally graded materials with references for further reading Shows computational procedures with simulation results Includes many easy to understand example problems Presents various analytical and numerical procedures for each solution **Mechanical**

Vibration Haym Benaroya, 2004-10-13 An effective text must be well balanced and thorough in its approach to a topic as expansive as vibration and Mechanical Vibration is just such a textbook Written for both senior undergraduate and graduate course levels this updated and expanded second edition integrates uncertainty and control into the discussion of vibration outlining basic concepts before delving into the mathematical rigors of modeling and analysis Mechanical Vibration Analysis Uncertainties and Control Second Edition provides example problems end of chapter exercises and an up to date set of mini projects to enhance students computational abilities and includes abundant references for further study or more in depth information The author provides a MATLAB primer on an accompanying CD ROM which contains original programs that can be used to solve complex problems and test solutions The book is self contained covering both basic and more advanced topics such as stochastic processes and variational approaches It concludes with a completely new chapter on nonlinear vibration and stability Professors will find that the logical sequence of material is ideal for tailoring individualized syllabi and students will benefit from the abundance of problems and MATLAB programs provided in the text and on the accompanying CD ROM respectively A solutions manual is also available with qualifying course adoptions **Seismic Analysis (2nd**

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Lenox,1979 *Eigenvalues of Inhomogeneous Structures* Isaac Elishakoff,2004-10-28 The engineering community generally accepts that there exists only a small set of closed form solutions for simple cases of bars beams columns and plates Despite the advances in powerful computing and advanced numerical techniques closed form solutions remain important for engineering these include uses for preliminary design for evaluation **Fluid-Structure Interactions: Volume 2** Michael P. Paidoussis,2016-02-05 The second of two volumes concentrating on the dynamics of slender bodies within or containing axial flow Volume 2 covers fluid structure interactions relating to shells cylinders and plates containing or immersed in axial flow as well as slender structures subjected to annular and leakage flows This volume has been thoroughly updated to reference the latest developments in the field with a continued emphasis on the understanding of dynamical behaviour and analytical methods needed to provide long term solutions and validate the latest computational methods and codes with increased coverage of computational techniques and numerical methods particularly for the solution of non linear three dimensional problems Provides an in depth review of an extensive range of fluid structure interaction topics with detailed real world examples and thorough referencing throughout for additional detail Organized by structure and problem type allowing you to dip into the sections that are relevant to the particular problem you are facing with numerous appendices containing the equations relevant to specific problems Supports development of long term solutions by focusing on the fundamentals and mechanisms needed to understand underlying causes and operating conditions under which apparent solutions might not prove effective Vibrations of Shells and Plates Werner Soedel,2004-08-11 With increasingly sophisticated structures involved in modern engineering knowledge of the complex vibration behavior of plates shells curved membranes rings and other complex structures is essential for today s engineering students since the behavior is fundamentally different than that of simple structures such as rods and beams Now in its Formulas for Dynamics, Acoustics and Vibration Robert D. Blevins,2016-05-03 With Over 60 tables most with graphic illustration and over 1000 formulas Formulas for Dynamics Acoustics and Vibration will provide an invaluable time saving source of concise solutions for mechanical civil nuclear petrochemical and aerospace engineers and designers Marine engineers and service engineers will also find it useful for diagnosing their machines that can slosh rattle whistle vibrate and crack under dynamic loads Solutions Manual to Accompany Beginning Partial Differential Equations Peter V. O'Neil,2014-09-25 Solutions Manual to Accompany Beginning Partial Differential Equations 3rd Edition Featuring a challenging yet accessible introduction to partial differential equations Beginning Partial Differential Equations provides a solid introduction to partial differential equations particularly methods of solution based on characteristics separation of variables as well as Fourier series integrals and transforms Thoroughly updated with novel applications such as Poe s pendulum and Kepler s problem in astronomy this third edition is updated to include the latest version of Maples which is integrated throughout the text New topical coverage includes novel applications such as Poe s pendulum and Kepler s problem in astronomy

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