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A thorough treatment of vibration theory and its engineering applications, from simple degree to multi degree-of-freedom system. Focuses on the physical aspects of the mathematical concepts necessary to describe the vibration phenomena. Provides many example applications to typical problems faced by practicing engineers. Includes a chapter on computer methods, and an accompanying disk with four basic Fortran programs covering most of the calculations encountered in vibration problems.

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The aim of this book is to impart a sound understanding, both physical and mathematical, of the fundamental theory of vibration and its applications. The book presents in a simple and systematic manner techniques that can easily be applied to the analysis of vibration of mechanical and structural systems. Unlike other texts on vibrations, the approach is general, based on the conservation of energy and Lagrangian dynamics, and develops specific techniques from these foundations in clearly understandable stages. Suitable for a one-semester course on vibrations, the book presents new concepts in simple terms and explains procedures for solving problems in considerable detail.

This fourth edition of this volume features a new chapter on computational methods that presents the basic principles on which most modern computer programs are developed. It introduces an example on rotor balancing and expands on the section on shock spectrum and isolation. It adds coverage of the methods of assumed modes and incorporates a new section on suspension bridges to illustrate the application of the continuous system theory to simplified models for the calculation of natural frequencies.

Mechanical Vibration: Analysis, Uncertainty, and Control presents comprehensive coverage of the fundamental principles of mechanical vibration, including the theory of vibration, as well as discussions and examples of the applications of these principles to practical engineering problems. In dealing with the subject of vibration, the engineer must also consider the effects of uncertainties in the analysis and methods for the control of vibration. As such, this book includes treatment of both subjects: modeling of uncertainties and vibration control. Many example problems with solutions are included, and are been carefully chosen and are presented at strategic points enabling the reader to have a thorough understanding of the subject and to help cement core ideas, the book includes compelling case studies and stories of real-world applications of mechanical vibration.

Based on many years of research and teaching, this book brings together all the important topics in linear vibration theory, including failure models, kinematics and modeling, unstable vibrating systems, rotordynamics, model reduction methods, and finite element methods utilizing truss, beam, membrane and solid elements. It also explores in detail active vibration control, instability and modal analysis. The book provides the modeling skills and knowledge required for modern engineering practice, plus the tools needed to identify, formulate and solve engineering problems effectively.

Mechanical Vibrations: Theory and Applications takes an applications-based approach at teaching students to apply previously learned engineering principles while laying a foundation for engineering design. This text provides a brief review of the principles of dynamics so that terminology and notation are consistent and applies these principles to derive mathematical models of dynamic mechanical systems. The methods of application of these principles are consistent with popular Dynamics texts. Numerous pedagogical features have been included in the text in order to aid the student with comprehension and retention. These include the development of three benchmark problems which are revisited in each chapter, creating a coherent chain linking all chapters in the book. Also included are learning outcomes, summaries of key concepts including important equations and formulae, fully solved examples with an emphasis on real world examples, as well as an extensive exercise set including objective-type questions. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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