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Mechanical Vibrations, 6/e is ideal for undergraduate courses in Vibration Engineering. Retaining the style of its previous editions, this text presents the theory, computational aspects, and applications of vibrations in as simple a manner as possible. With an emphasis on computer techniques of analysis, it gives expanded explanations of the fundamentals, focusing on physical significance and interpretation that build upon students' previous experience. Each self-contained topic fully explains all concepts and presents the derivations with complete details. Numerous examples and problems illustrate principles and concepts.

This book presents a unified introduction to the theory of mechanical vibrations. The general theory of the vibrating particle is the point of departure for the field of multidegree of freedom systems. Emphasis is placed in the text on the issue of continuum vibrations. The presented examples are aimed at helping the readers with understanding the theory.This book is of interest among others to mechanical, civil and aeronautical engineers concerned with the vibratory behavior of the structures. It is useful also for students from undergraduate to postgraduate level. The book is based on the teaching experience of the authors.

Junior or Senior level Vibration courses in Departments of Mechanical Engineering. A thorough treatment of vibration theory and its engineering applications, from simple degree to multi degree-of-freedom system.

The Finite Element Method in Engineering, Fifth Edition, provides a complete introduction to finite element methods with applications to solid mechanics, fluid mechanics, and heat transfer. Written by bestselling author S.S. Rao, this book provides students with a thorough grounding of the mathematical principles for setting up finite element solutions in civil, mechanical, and aerospace engineering applications. The new edition of this textbook includes examples using modern computer tools such as MatLab, Ansys, Nastran, and Abaqus. This book discusses a wide range of topics, including discretization of the domain; interpolation models; higher order and isoparametric elements; derivation of element matrices and vectors; assembly of element matrices and vectors and derivation of system equations; numerical solution of finite element equations; basic equations of fluid mechanics; inviscid and irrotational flows; solution of quasi-harmonic equations; and solutions of Helmhotz and Reynolds equations. New to this edition are examples and applications in Matlab, Ansys, and Abaqus; structured problem solving approach in all worked examples; and new discussions throughout, including the direct method of deriving finite element equations, use of strong and weak form formulations, complete treatment of dynamic analysis, and detailed analysis of heat transfer problems. All figures are revised and redrawn for clarity. This book will benefit professional engineers, practicing engineers learning finite element methods, and students in mechanical, structural, civil, and aerospace engineering. Examples and applications in Matlab, Ansys, and Abaqus Structured problem solving approach in all worked examples New discussions throughout, including the direct method of deriving finite element equations, use of strong and weak form formulations, complete treatment of dynamic analysis, and detailed analysis of heat transfer problems More examples and exercises All figures revised and redrawn for clarity

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.

This text presents material common to a first course in vibration and the integration of computational software packages into the development of the text material (specifically makes use of MATLAB, MathCAD, and Mathematica). This allows solution of difficult problems, provides training in the use of codes commonly used in industry, encourages students to experiment with equations of vibration by allowing easy what if solutions. This also allows students to make precision response plots, computation of frequencies, damping ratios, and mode shapes. This encourages students to learn vibration in an interactive way, to solidify the design components of vibration and to integrate nonlinear vibration problems earlier in the text. The text explicitly addresses design by grouping design related topics into a single chapter and using optimization, and it connects the computation of natural frequencies and mode shapes to the standard eigenvalue problem, providing efficient and expert computation of the modal properties of a system. In addition, the text covers modal testing methods, which are typically not discussed in competing texts. software to include Mathematica and MathCAD as well as MATLAB in each chapter, updated Engineering Vibration Toolbox and web site; integration of the numerical simulation and computing into each topic by chapter; nonlinear considerations added at the end of each early chapter through simulation; additional problems and examples; and, updated solutions manual available on CD for use in teaching. It uses windows to remind the reader of relevant facts outside the flow of the text development. It introduces modal analysis (both theoretical and experimental). It introduces dynamic finite element analysis. There is a separate chapter on design and special sections to emphasize design in vibration.

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