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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.

The coverage of the book is quite broad and includes free and forced vibrations of 1-degree-of-freedom, multi-degree-of-freedom, and continuous systems.

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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This comprehensive and accessible book, now in its second edition, covers both mathematical and physical aspects of the theory of mechanical vibrations. This edition includes a new chapter on the analysis of nonlinear vibrations. The text examines the models and tools used in studying mechanical vibrations and the techniques employed for the development of solutions from a practical perspective to explain linear and nonlinear vibrations. To enable practical understanding of the subject, numerous solved and unsolved problems involving a wide range of practical situations are incorporated in each chapter. This text is designed for use by the undergraduate and postgraduate students of mechanical engineering.

A revised and up-to-date guide to advanced vibration analysis written by a noted expert The revised and updated second edition of *Vibration of Continuous Systems* offers a guide to all aspects of vibration of continuous systems including: derivation of equations of motion, exact and approximate solutions and computational aspects. The author—a noted expert in the field—reviews all possible types of continuous structural members and systems including strings, shafts, beams, membranes, plates, shells, three-dimensional bodies, and composite structural members. Designed to be a useful aid in the understanding of the vibration of continuous systems, the book contains exact analytical solutions, approximate analytical solutions, and numerical solutions. All the methods are presented in clear and simple terms and the second edition offers a more detailed explanation of the fundamentals and basic concepts. *Vibration of Continuous Systems* revised second edition: Contains new chapters on Vibration of three-dimensional solid bodies; Vibration of composite structures; and Numerical solution using the finite element method Reviews the fundamental concepts in clear and concise language Includes newly formatted content that is streamlined for effectiveness Offers many new illustrative examples and problems Presents answers to selected problems Written for professors, students of mechanics of vibration courses, and researchers, the revised second edition of *Vibration of Continuous Systems* offers an authoritative guide filled with illustrative examples of the theory, computational details, and applications of vibration of continuous systems.

Engineers are becoming increasingly aware of the 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.

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Building on the success of 'Modelling, Analysis, and Control of Dynamic Systems', 2nd edition, William Palm's new book offers a concise introduction to vibrations theory and applications. Design problems give readers the opportunity to apply what they've learned. Case studies illustrate practical engineering applications.

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