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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.

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.

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A revised and up-to-date guide to advanced vibration analysis
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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

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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.

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

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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. Several new features have been introduced, many new topics are added and some topics are modified and rewritten in this edition. Most of the additions and modifications were suggested by those who have used the text and by several reviewers. The examples and problems based on C++ and Fortran programs, given in the fourth edition of the book, have been deleted. Some important changes should be noted: Chapter outline and learning objectives are stated at the beginning of each chapter. Chapter summary is given at the end of each chapter. The

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presentation of some of the topics is modified for expanded coverage and better clarity. These include the discussion on the basic components of vibration - spring elements, damping elements and mass or inertia elements, vibration isolation, and active vibration control. Many new topics are added with detailed presentation and illustrative examples. These include: Response of first order systems and time constant, Graphical representation of characteristic roots and solutions, Parameter variations and root locus representation, Stability of systems, transfer function approach for forced vibration problems, Frequency transfer function approach, Bode diagram for damped single degree of freedom systems, Step response and description of transient response, and Inelastic and elastic collisions. 28 new examples, 160 new problems, 70 new review questions, and 107 new illustrations are

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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.

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