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This book, which is a result of the author's many years of teaching, exposes the readers to the fundamentals of mechanical vibrations and noise engineering. It provides them with the tools essential to tackle the problem of vibrations produced in machines and structures due to unbalanced forces and the noise produced thereof. The text lays emphasis on mechanical engineering applications of the subject and develops conceptual understanding with the help of many worked-out examples. What distinguishes the text is that three chapters are devoted to Sound Level and Subjective Response to Sound, Noise: Effects, Ratings and Regulations and Noise: Sources, Isolation and Control. Importance of mathematical formulation in converting a distributed parameter vibration problem into an equivalent lumped parameter problem is also emphasized. Primarily designed as a text for undergraduate and postgraduate students of mechanical engineering, this book would also be useful for undergraduate and postgraduate students of civil, aeronautical and automobile engineering as well as practising engineers.

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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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 is an entry level textbook To The subject of vibration of linear mechanical systems. All the topics prescribed by leading universities for study in undergraduate engineering courses are covered in the book in a graded manner. With minimum amount of mathematics, which is essential to Understand The subject, theoretical aspects are described in each chapter. The theory is illustrated by several worked examples, which features will be found attractive by teachers and students alike. After a brief introduction to Fourier series in the first chapter, free and forced vibration of single degree-of-freedom systems with and without damping is developed in the next four chapters. Two degree-of-freedom systems including vibration absorbers are studied in chapter six. The seventh chapter generalises the previous results to multiple degree-of-freedom systems. Examples are wokred out in details to illustrate the orthogonality of mode shapes, The normal mode method And The method of matrix iteration. Analysis of continuous systems such as shafts, bars and beams is presented in chapter eight. Transformations to handle general time dependent boundary condition problems are described with examples. Torsional vibration of geared systems, shaft whirling and critical speeds are discussed in chapter nine. The numerical methods of Stodola and Holzer for finding critical speeds are described with examples. The tenth chapter is devoted to understand approximate methods for finding natural frequencies and mode shapes. Rayleigh's quotient, Dunkerley's approximation are described followed by Rayleigh-Ritz and Galerkin's methods. The book ends with a short appendix to indicate how elementary result derived in chapter four on support excitation of damped springmass systems are useful in measurement of vibration.

This is a textbook for a first course in mechanical vibrations. There are many books in this area that try to include everything, thus they have become exhaustive compendiums, overwhelming for the undergraduate. In this book, all the basic concepts in mechanical vibrations are clearly identified and presented in a concise and simple manner with illustrative and practical examples. Vibration concepts include a review of selected topics in mechanics; a description of single-degree-of-freedom (SDOF) systems in terms of equivalent mass, equivalent stiffness, and equivalent damping; a unified treatment of various forced response problems (base excitation and rotating balance); an introduction to systems thinking, highlighting the fact that SDOF analysis is a building block for multi-degree-of-freedom (MDOF) and continuous system analyses via modal analysis; and a simple introduction to finite element analysis to connect continuous system and MDOF analyses. There are more than sixty exercise problems, and a complete solutions manual. The use of MATLAB® software is emphasized.

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