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THEORY OF VIBRATION WITH APPLICATIONS

Theory of Vibration With Applications/Book and Disk by William T. Thomson (1992-10-01)

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Theory of Vibration with Applications (Unknown Binding) Published October 1st 1992 by Prentice Hall. Unknown Binding, 546 pages. Author (s): William Tyrrell Thomson. ISBN: 0139153233 (ISBN13: 9780139153235) Edition language: English.

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Theory of Vibration With Applications. Hardcover – 28 August 1997. by William Thomson (Author), Marie Dillon Dahleh (Author) 3.9 out of 5 stars 39 ratings. See all formats and editions. Hide other formats and editions. Amazon Price. New from. Used from.

This edition 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.

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.

This edition 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.

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.

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.

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A thorough treatment of vibration theory and its engineering applications, from simple degree to multi degree-of-freedom system.

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 continuos system theory to simplified models for the calculation of natural frequencies.

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