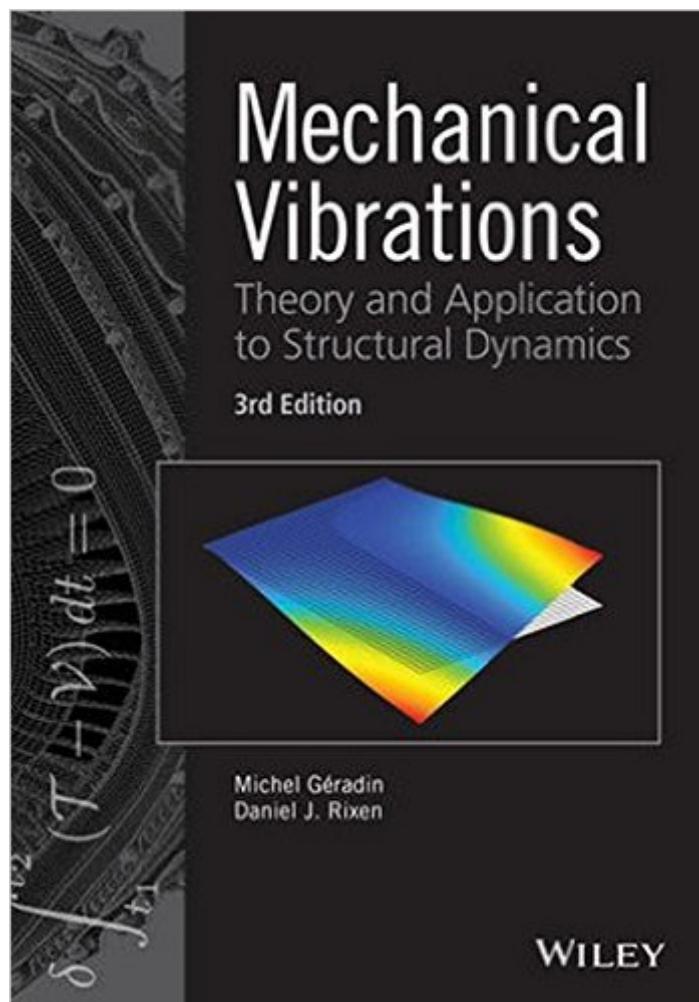


The book was found

Mechanical Vibrations: Theory And Application To Structural Dynamics



Synopsis

Mechanical Vibrations: Theory and Application to Structural Dynamics, Third Edition is a comprehensively updated new edition of the popular textbook. It presents the theory of vibrations in the context of structural analysis and covers applications in mechanical and aerospace engineering. Key features include: A systematic approach to dynamic reduction and substructuring, based on duality between mechanical and admittance concepts An introduction to experimental modal analysis and identification methods An improved, more physical presentation of wave propagation phenomena A comprehensive presentation of current practice for solving large eigenproblems, focusing on the efficient linear solution of large, sparse and possibly singular systems A deeply revised description of time integration schemes, providing framework for the rigorous accuracy/stability analysis of now widely used algorithms such as HHT and Generalized- $\ddot{\text{I}}$ Solved exercises and end of chapter homework problems A companion website hosting supplementary material

Book Information

Hardcover: 616 pages

Publisher: Wiley; 3 edition (February 16, 2015)

Language: English

ISBN-10: 1118900200

ISBN-13: 978-1118900208

Product Dimensions: 7 x 1.3 x 9.9 inches

Shipping Weight: 2.3 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 starsÂ See all reviewsÂ (1 customer review)

Best Sellers Rank: #1,322,433 in Books (See Top 100 in Books) #62 inÂ Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural Dynamics #665 inÂ Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural #795 inÂ Books > Science & Math > Physics > Mechanics

Customer Reviews

This is an excellent textbook on vibrations and structural dynamics. It is better than most books available. It contains a large amount of material which should be used selectively during a one semester course on structural dynamics.

[Download to continue reading...](#)

Mechanical Vibrations: Theory and Application to Structural Dynamics Fundamentals of Mechanical Vibrations: IBM PC 3.5 Version (Mcgraw Hill Series in Mechanical Engineering) Random Vibrations: Analysis of Structural and Mechanical Systems Modal Testing, Theory, Practice, and Application (Mechanical Engineering Research Studies: Engineering Dynamics Series) Code Check Plumbing & Mechanical 4th Edition: An Illustrated Guide to the Plumbing and Mechanical Codes (Code Check Plumbing & Mechanical: An Illustrated Guide) Flow-Induced Vibrations: An Engineering Guide (Dover Civil and Mechanical Engineering) Structure-Borne Sound: Structural Vibrations and Sound Radiation at Audio Frequencies Structural Dynamics: Theory and Applications Structural Dynamics: Theory and Computation Structural Dynamics - Theory & Computation, 2E Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry) Dynamics: Theory and Application of Kane's Method Landau Theory Of Phase Transitions, The: Application To Structural, Incommensurate, Magnetic And Liquid Crystal Systems (World Scientific Lecture Notes in Physics) PE Mechanical Engineering: Mechanical Systems and Materials Practice Exam Shigley's Mechanical Engineering Design (McGraw-Hill Series in Mechanical Engineering) Mechanical Engineering Design (McGraw-Hill Mechanical Engineering) The Mechanical Design Process (Mcgraw-Hill Series in Mechanical Engineering) Dynamics of Fluids in Porous Media (Dover Civil and Mechanical Engineering) Vehicle Dynamics, Stability, and Control, Second Edition (Mechanical Engineering) Vibration of Mechanical and Structural Systems: With Microcomputer Applications

[Dmca](#)