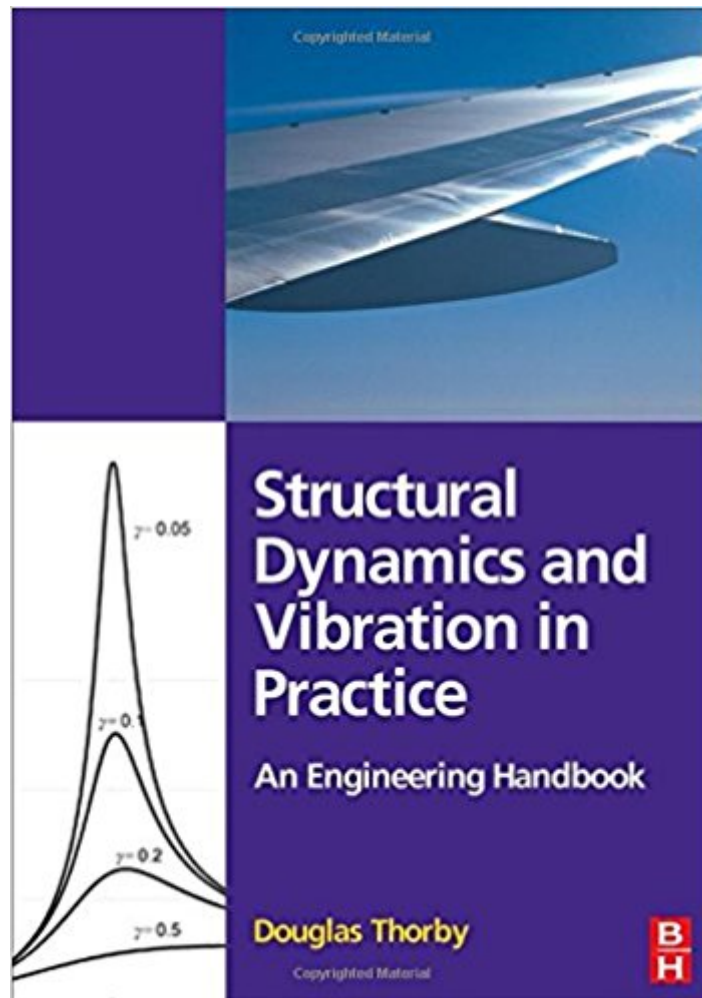




Ebook Directory
the best source of ebook

The book was found

Structural Dynamics And Vibration In Practice: An Engineering Handbook



Synopsis

This straightforward text, primer and reference introduces the theoretical, testing and control aspects of structural dynamics and vibration, as practised in industry today. Written by an expert engineer of over 40 years experience, the book comprehensively opens up the dynamic behavior of structures and provides engineers and students with a comprehensive practice based understanding of the key aspects of this key engineering topic. Written with the needs of engineers of a wide range of backgrounds in mind, this book will be a key resource for those studying structural dynamics and vibration at undergraduate level for the first time in aeronautical, mechanical, civil and automotive engineering. It will be ideal for laboratory classes and as a primer for readers returning to the subject, or coming to it fresh at graduate level. It is a guide for students to keep and for practicing engineers to refer to: its worked example approach ensures that engineers will turn to Thorby for advice in many engineering situations. Presents students and practitioners in all branches of engineering with a unique structural dynamics resource and primer, covering practical approaches to vibration engineering while remaining grounded in the theory of the topic. Written by a leading industry expert, with a worked example lead approach for clarity and ease of understanding. Makes the topic as easy to read as possible, omitting no steps in the development of the subject; covers computer based techniques and finite elements.

Book Information

Paperback: 420 pages

Publisher: Butterworth-Heinemann; 1 edition (March 4, 2008)

Language: English

ISBN-10: 0750680024

ISBN-13: 978-0750680028

Product Dimensions: 6.7 x 0.8 x 9.6 inches

Shipping Weight: 1.9 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars 1 customer review

Best Sellers Rank: #1,494,382 in Books (See Top 100 in Books) #67 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural Dynamics #772 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural #1195 in Books > Science & Math > Physics > Dynamics

Customer Reviews

This straightforward text, primer and reference introduces the theoretical, testing and control

aspects of structural dynamics and vibration, as practised in industry today. Written by an expert engineer of over 40 years experience, the book comprehensively opens up the dynamic behavior of structures and provides engineers and students with a comprehensive practice based understanding of the key aspects of this key engineering topic. Key featuresâ € Worked example based makes it a thoroughly practical resourceâ € Aimed at those studying to enter, and already working in industry;â € Presents an applied practice and testing based approach while remaining grounded in the theory of the topicâ € Makes the topic as easy to read as possible, omitting no steps in the development of the subject;â € Includes the use of computer based modelling techniques and finite elementsâ € Covers theory, modelling testing and control in practiceWritten with the needs of engineers of a wide range of backgrounds in mind, this book will be a key resource for those studying structural dynamics and vibration at undergraduate level for the first time in aeronautical, mechanical, civil and automotive engineering. It will be ideal for laboratory classes and as a primer for readers returning to the subject, or coming to it fresh at graduate level. It is a guide for students to keep and for practicing engineers to refer to: its worked example approach ensures that engineers will turn to Thorby for advice in many engineering situations.

Retired Aeronautical engineer, ex-senior dynamics engineer at British Aerospace. The author has 40 years of experience of structural dynamics and vibration in the British and American aerospace industries (structural dynamicist for the US Harrier; T45 US Navy Hawk trainer; Lockheed-Martin JSF). This included five years as the UK representative on the Structures and Materials Panel of NATOâ€™s Advisory Group for Aerospace Research & Development (AGARD).

Complete topic coverage and would make a good textbook. With my being out of grad school for 30 years I found it less than practical for my daily work.

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

ISO 2631-2:2003, Mechanical vibration and shock - Evaluation of human exposure to whole-body vibration - Part 2: Vibration in buildings (1 Hz to 80 Hz) ISO 13753:1998, Mechanical vibration and shock - Hand-arm vibration - Method for measuring the vibration transmissibility of resilient materials when loaded by the hand-arm system Structural Dynamics and Vibration in Practice: An Engineering Handbook Structural Dynamics of Earthquake Engineering: Theory and Application Using Mathematica and Matlab (Woodhead Publishing Series in Civil and Structural Engineering) Harnessing Bistable Structural Dynamics: For Vibration Control, Energy Harvesting and Sensing Spatial Control of Vibration: Theory and Experiments (Stability, Vibration and Control of Systems,

Series A) Strengthening of Reinforced Concrete Structures: Using Externally-Bonded Frp Composites in Structural and Civil Engineering (Woodhead Publishing Series in Civil and Structural Engineering) Sound and Structural Vibration, Second Edition: Radiation, Transmission and Response Sound and Structural Vibration: Radiation, Transmission and Response Vibration of Mechanical and Structural Systems: With Microcomputer Applications Random Vibration of Mechanical and Structural Systems Dynamics and Vibration: An Introduction Gravity Sanitary Sewer Design and Construction (ASCE Manuals and Reports on Engineering Practice No. 60) (Asce Manuals and Reports on Engineering ... Manual and Reports on Engineering Practice) Modal Testing, Theory, Practice, and Application (Mechanical Engineering Research Studies: Engineering Dynamics Series) Engineering Vibration (4th Edition) Structural Analysis and Synthesis: A Laboratory Course in Structural Geology Structural Analysis and Synthesis: A Laboratory Course in Structural Geology 3rd (third) edition by Rowland, Stehen M., Duebendorfer, Ernest M., Schiefelbein, I published by Wiley-Blackwell (2007) [Spiral-bound] Structural Analysis and Synthesis: A Laboratory Course in Structural Geology, 2nd Edition The Techniques of Modern Structural Geology, Volume 3: Applications of Continuum Mechanics in Structural Geology Dynamics of Structures (5th Edition) (Prentice-Hall International Series I Civil Engineering and Engineering Mechanics)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)