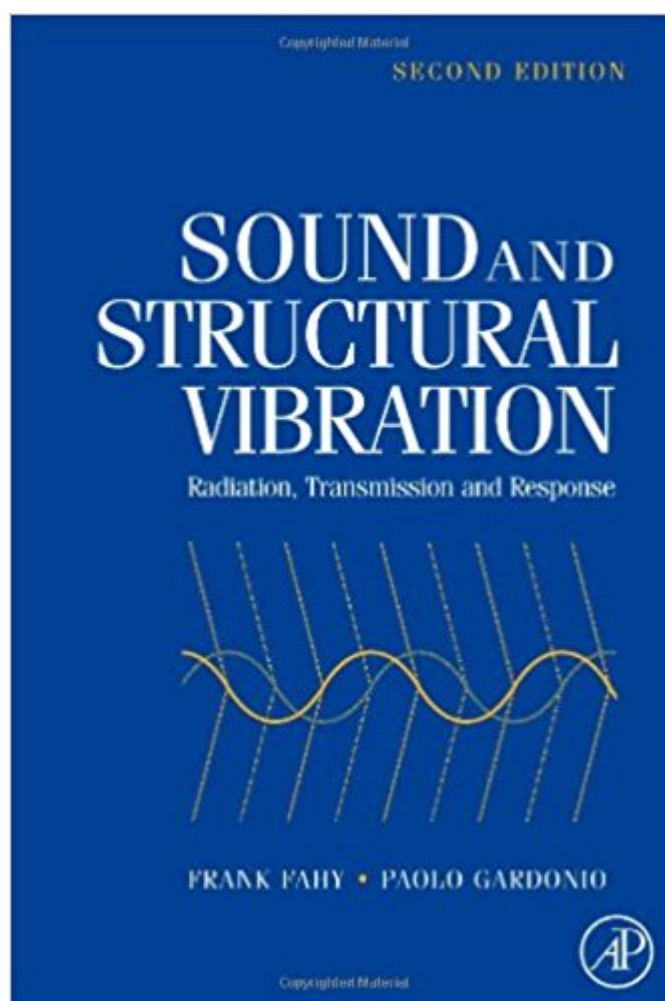




Ebook Directory
the best source of ebook

The book was found

Sound And Structural Vibration, Second Edition: Radiation, Transmission And Response



Synopsis

The first edition of Sound and Structural Vibration was written in the early 1980s. Since then, two major developments have taken place in the field of vibroacoustics. Powerful computational methods and procedures for the numerical analysis of structural vibration, acoustical fields and acoustical interactions between fluids and structures have been developed and these are now universally employed by researchers, consultants and industrial organisations. Advances in signal processing systems and algorithms, in transducers, and in structural materials and forms of construction, have facilitated the development of practical means of applying active and adaptive control systems to structures for the purposes of reducing or modifying structural vibration and the associated sound radiation and transmission. In this greatly expanded and extensively revised edition, the authors have retained most of the analytically based material that forms the pedagogical content of the first edition, and have expanded it to present the theoretical foundations of modern numerical analysis. Application of the latter is illustrated by examples that have been chosen to complement the analytical approaches to solving fairly simple problems of sound radiation, transmission and fluid-structural coupling that are presented in the first edition. The number of examples of experimental data that relate to the theoretical content, and illustrate important features of vibroacoustic interaction, has been augmented by the inclusion of a selection from the vast amount of material published during the past twenty five years. The final chapter on the active control of sound and vibration has no precursor in the first edition. Covers theoretical approaches to modeling and analysis Highly applicable to challenges in industry and academia For engineering students to use throughout their career

Book Information

Paperback: 656 pages

Publisher: Academic Press; 2 edition (January 26, 2007)

Language: English

ISBN-10: 0123736331

ISBN-13: 978-0123736338

Product Dimensions: 6.1 x 1.3 x 9.2 inches

Shipping Weight: 2.4 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 2 customer reviews

Best Sellers Rank: #1,951,247 in Books (See Top 100 in Books) #24 in Books > Science & Math > Physics > Engineering #86 in Books > Engineering & Transportation > Engineering >

Civil & Environmental > Structural Dynamics #676 in $\hat{A}$ Books > Engineering & Transportation > Engineering > Civil & Environmental > Acoustics

Customer Reviews

"This book is an outstanding contribution to the acoustics and vibration literature. Although it is written at an advanced level, almost anyone undertaking serious work in acoustics or vibration is sure to learn something of value by reading it. However, for researchers and PhD students working in acoustics and vibration, it is an essential reference and well worth the cost." --Colin H. Hansen, Department of Mechanical Engineering, University of Adelaide

Extensively revised; now covering the fundamental aspects and modern developments in vibroacoustics

Textbook for my graduate level structural acoustics class. Great book

Excellent book about classic topic, well known author. No other comment needed. a a a a a a a

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

Sound and Structural Vibration, Second Edition: Radiation, Transmission and Response Sound and Structural Vibration: Radiation, Transmission and Response 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 Structure-Borne Sound: Structural Vibrations and Sound Radiation at Audio Frequencies Spatial Control of Vibration: Theory and Experiments (Stability, Vibration and Control of Systems, Series A) Vibration of Mechanical and Structural Systems: With Microcomputer Applications Harnessing Bistable Structural Dynamics: For Vibration Control, Energy Harvesting and Sensing Random Vibration of Mechanical and Structural Systems Structural Dynamics and Vibration in Practice: An Engineering Handbook Atoms, Radiation, and Radiation Protection, 2nd Edition Host Response to Biomaterials: The Impact of Host Response on Biomaterial Selection Atoms, Radiation, and Radiation Protection Treatment Planning in the Radiation Therapy of Cancer (Frontiers of Radiation Therapy and Oncology, Vol. 21) (v. 21) Radiation Nation: Fallout of Modern Technology - Your Complete Guide to EMF Protection & Safety: The Proven Health Risks of Electromagnetic Radiation (EMF) & What to Do Protect Yourself & Family Sound and Vibration (Making sense of science)

Sound Innovations for String Orchestra: Sound Development (Intermediate) for Violin: Warm up Exercises for Tone and Technique for Intermediate String Orchestra (Sound Innovations Series for Strings) ABC & 123 Learning Songs: Interactive Children's Sound Book (11 Button Sound) (11 Button Sound Book) Making Waves: Sound : Sound (Everyday Science): Sound (Everyday Science) The SOS Guide to Live Sound: Optimising Your Band's Live-Performance Audio (Sound On Sound Presents...)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)