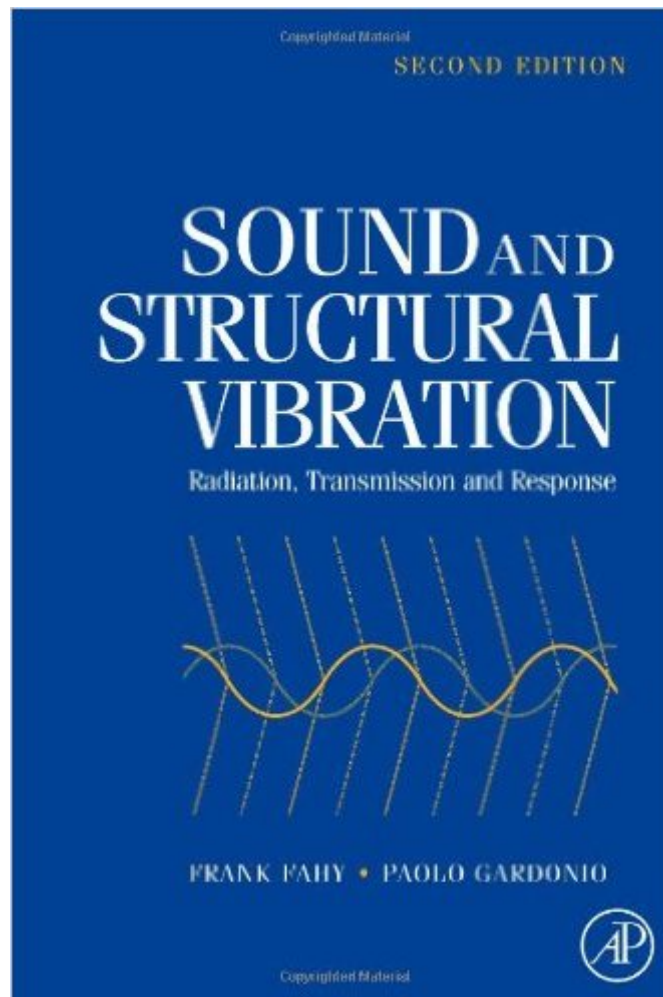


The book was found

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 [See all reviews](#) (3 customer reviews)

Best Sellers Rank: #1,167,537 in Books (See Top 100 in Books) #14 in [Books > Science & Math > Physics > Engineering](#) #55 in [Books > Engineering & Transportation > Engineering > Civil &](#)

Environmental > Structural Dynamics #432 inÂ Books > Engineering & Transportation > Engineering > Civil & Environmental > Acoustics

Customer Reviews

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

Textbook for my graduate level structural acoustics class. Great book

This is a reference book for students and engineer involved with vibroacoustics and noise reduction from structures and machinery. This title covers in depth structural radiation and vibration wave theory with classical references. Book exercises with answers provide applications to digest physics elements into long-term scientific and engineering background.

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

Sound and Structural Vibration, Second Edition: Radiation, Transmission and Response
Structure-Borne Sound: Structural Vibrations and Sound Radiation at Audio Frequencies
Sound Innovations for String Orchestra -- Sound Development: Viola (Sound Innovations Series for Strings)
Atoms, Radiation, and Radiation Protection, 2nd Edition
Structural Dynamics and Vibration in Practice: An Engineering Handbook
Vibration of Mechanical and Structural Systems: With Microcomputer Applications
Vibration Damping of Structural Elements
Magnetism and Synchrotron Radiation: Towards the Fourth Generation Light Sources: Proceedings of the 6th International School "Synchrotron Radiation ... 2012 (Springer Proceedings in Physics)
Atoms, Radiation, and Radiation Protection
Host Response to Biomaterials: The Impact of Host Response on Biomaterial Selection
Structural Damping: Applications in Seismic Response Modification (Advances in Earthquake Engineering)
Game Sound: An Introduction to the History, Theory, and Practice of Video Game Music and Sound Design (MIT Press)
Report Of A Survey Of The Oyster Regions Of St. Vincent Sound, Apalachicola Bay, And St. George Sound, Florida
Sound Design: The Expressive Power of Music, Voice and Sound Effects in Cinema Production
Sound Mixing: The Art and Craft of Sound Recording for the Moving Image (The CineTech Guides to the Film Crafts)
Sound Sleep, Sound Mind: 7 Keys to Sleeping through the Night
Sound Innovations for String Orchestra, Bk 2: A Revolutionary Method for Early-Intermediate Musicians (Viola), Book, CD & DVD (Sound Innovations Series for Strings)
Sound Innovations for String Orchestra, Bk 2: A Revolutionary Method for Early-Intermediate Musicians (Bass), Book, CD & DVD (Sound Innovations Series for Strings)
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 Stability of Steel: Concepts and
Applications for Structural Engineers

[Dmca](#)