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Structure-Borne Sound: Structural Vibrations And Sound Radiation At Audio Frequencies



Synopsis

Structure-Borne Sound" is a thorough introduction to structural vibrations with emphasis on audio frequencies and the associated radiation of sound. The book presents in-depth discussions of fundamental principles and basic problems, in order to enable the reader to understand and solve his own problems. It includes chapters dealing with measurement and generation of vibrations and sound, various types of structural wave motion, structural damping and its effects, impedances and vibration responses of the important types of structures, as well as with attenuation of vibrations, and sound radiation from structures. For the third edition, the author fundamentally revised and newly organized the contents of the work. Nevertheless, the intention has been to preserve the style of the previous editions, namely to focus on the fundamentals enabling the reader to analyse further problems.

Book Information

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Customer Reviews

A&V WWWVL Review: If your activities involve analytical computations for structureborne sound, then this book will become a much loved companion. It will be dog-eared and filled with 3M Post-it tabs in no time. As with many of these specialized books, the price is dear, but just think of how long it would take you to derive all the theory on your own!

Text: English, German (translation) --This text refers to an out of print or unavailable edition of this

title.

This classic text book on Structure-Borne sound transmission is a must-have for anyone in the field of noise & vibration. The book is relatively easily to follow. It is full of very useful and practical information. It is highly recommended as a reference for graduate students and practicing engineers.

This very comprehensive book is well explained and detailed, from the basic sound propagation formulae to control room treatment. It is also useful in our acoustic consulting activities and technical support for solutions, as "rain on the roof noise" and "foot-fall noise" at residential and business buildings

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