



Structure-borne sound transmits between the ceiling and floorboard via rigid connections in the form of timber floor joists, radiating sound into the room above.

Structure-borne Sound

Airborne Sound

Structureborne Sound

Matthias Lievens

Structureborne Sound:

Structure-Borne Sound L. Cremer,M. Heckl,2013-03-09 Since structure borne sound plays an important role in noise control material testing and machine diagnosis the relevant properties of the most important elements of a construction plates beams and shells are investigated Measurement techniques equations of motion formulas for wave speeds resonance frequencies impedances transmission coefficients etc are given The different damping mechanisms and the radiation properties are treated The statistical energy analysis SEA is also presented This new edition has been enlarged to include also waves on orthotropic plates and the vibration and radiation of cylindrical shells Structure-Borne Sound L. Cremer,M. Heckl,Björn A.T. Petersson,2005-01-17 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 **Structure-Borne Sound** L. Cremer,1973

Structure-Borne Sound L. Cremer,M. Heckl,2014-03-12 Since structure borne sound plays an important role in noise control material testing and machine diagnosis the relevant properties of the most important elements of a construction plates beams and shells are investigated Measurement techniques equations of motion formulas for wave speeds resonance frequencies impedances transmission coefficients etc are given The different damping mechanisms and the radiation properties are treated The statistical energy analysis SEA is also presented This new edition has been enlarged to include also waves on orthotropic plates and the vibration and radiation of cylindrical shells Structure-Borne Sound Lothar Cremer,Manfred Heckl,2013-06-29 Whcn the original German edition of this book first appeared in print the undersigned was asked to review it for an English language journal In the course of this review process he was so struck by the book s unusual approach as well as by the realization that no similar collection of information was available in English that he conceived the idea of undertaking this translation Arrangements with the original authors and with the publisher were completed late in 1969 the translation task was begun at that time and occupied nearly two and onc half years largly because the undersigned s other professional act ivities permitted him to derote only hisspare time to the translation effort Because this passage of time also brought with it some advances in the state of t he art an attempt was made to include the most significant of these aclvances as well as newer references and some minor correc tions in the translatecl rersion Except for these changes which were macle with the enthusiastic endorsement and collaboration of the origi nal authors the

translated version remains very close to the original. In fact the translator took special care to preserve not only the meaning but also the flavor of the original text. The translator is most grateful to Professor L. Cremer and Dr. *Structure-Borne Sound* L. Cremer, M. Heckl, Björn A.T. Petersson, 2005-12-05. *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.

Structure-borne Sound Sources in Buildings Matthias Lievens, 2013 **Structure - Borne Sound** Lothar Cremer, 2005 **STRUCTURE-BORNE SOUND** L. Cremer, M. Heckl, E.E. Ungar, 1973 Structure Borne Sound Source Characterization Jean-Michel Mondot, 1986

Structure-borne Sound in Buildings D. I. Evans, University of Heriot-Watt, 1986 Structure Borne Sound Source Characterization Jean-Michel Mondot, 1985 **Structure-borne Sound in Buildings at Low Frequencies** J. A.

Steel, University of Heriot-Watt, 1987 **Transmission of Structure-borne Sound in Buildings** Tor Kihlman, 1967

Structure Borne Sound Source Characterization Jean-Michel Mondot, 1985 **Mechanical and Electrical Equipment for Buildings** Walter T. Grondzik, Alison G. Kwok, Benjamin Stein, John S. Reynolds, 2011-01-31. For more than half a century this book has been a fixture in architecture and construction firms the world over. Twice awarded the AIA's Citation for Excellence in International Architecture Book Publishing. *Mechanical and Electrical Equipment for Buildings* is recognized for its comprehensiveness, clarity of presentation and timely coverage of new design trends and technologies. Addressing mechanical and electrical systems for buildings of all sizes, it provides design guidelines and detailed design procedures for each topic covered. Thoroughly updated to cover the latest technologies, new and emerging design trends and relevant codes, this latest edition features more than 2 200 illustrations, 200 new to this edition, and a companion Website with additional resources.

Investigation Towards an Active Barrier for Structure Borne Sound Using Structural Intensity Alexander Kokott, Thomas Haase, Hans Peter Monner, 2019 The Propagation of Structure-borne Sound in Buildings W. Westphal, 1968 **Acoustics** British Standards Institute Staff, 1996-12. Production equipment, Structures, Acoustic measurement, Acoustic testing, Vibration measurement, Noise, environmental, Sound, velocity, Acoustics, Supports, Damping, devices, Testing conditions, Test equipment, Reproducibility Reports Design Acoustics Gh. Reza Sinambari, 2023-04-12. This technical book focuses on the acoustic analysis of weak points in a comprehensible manner. This reliably helps the designer and acoustician to understand the noise development of machines and systems and to develop suitable primary and

secondary noise reduction measures Selected application examples from practice support the user in developing his own ideas for the implementation of product related noise reductions

The book delves into Structureborne Sound. Structureborne Sound is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Structureborne Sound, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Structureborne Sound
- Chapter 2: Essential Elements of Structureborne Sound
- Chapter 3: Structureborne Sound in Everyday Life
- Chapter 4: Structureborne Sound in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Structureborne Sound. This chapter will explore what Structureborne Sound is, why Structureborne Sound is vital, and how to effectively learn about Structureborne Sound.
3. In chapter 2, the author will delve into the foundational concepts of Structureborne Sound. The second chapter will elucidate the essential principles that must be understood to grasp Structureborne Sound in its entirety.
4. In chapter 3, the author will examine the practical applications of Structureborne Sound in daily life. The third chapter will showcase real-world examples of how Structureborne Sound can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Structureborne Sound in specific contexts. The fourth chapter will explore how Structureborne Sound is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Structureborne Sound. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Structureborne Sound.

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