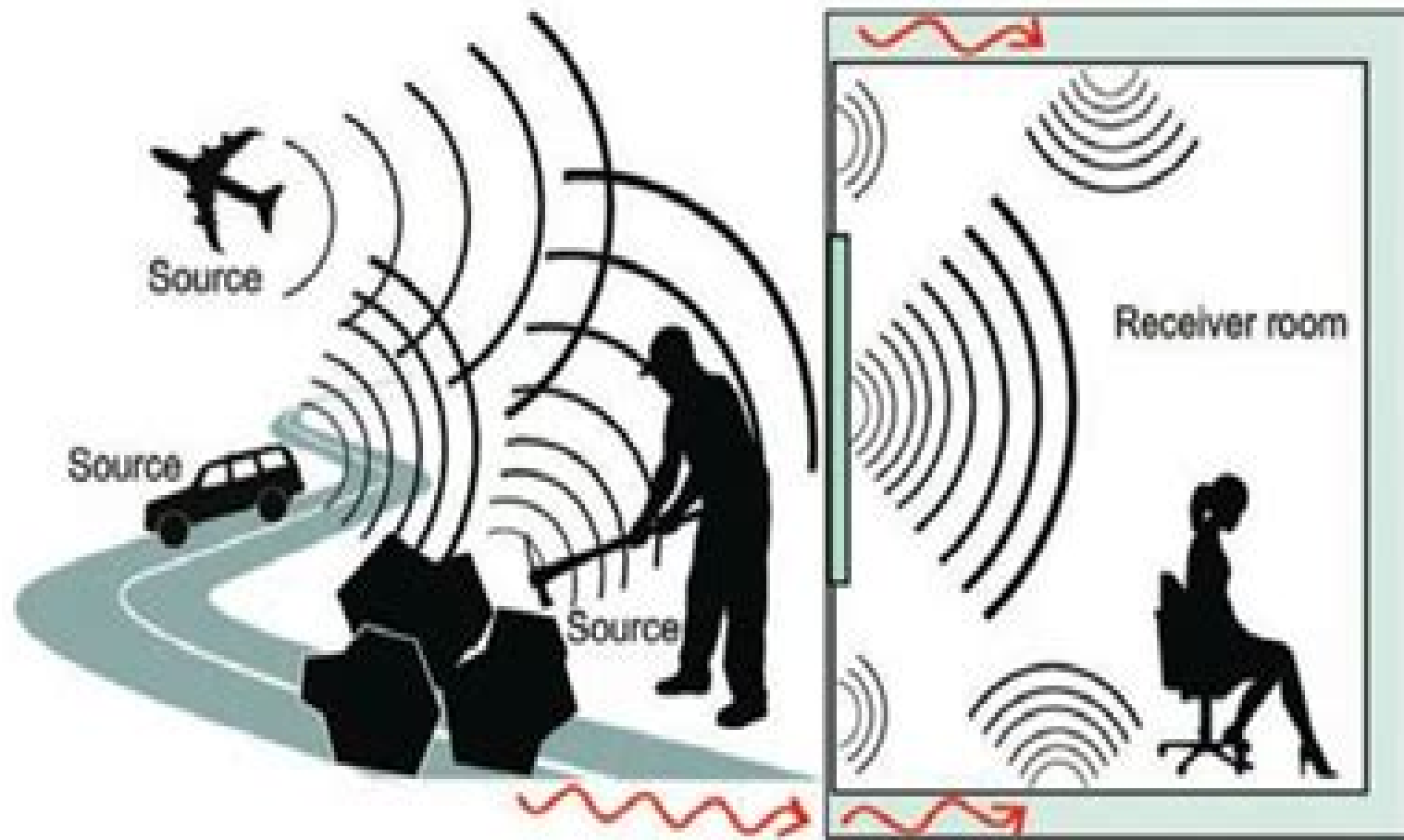


## COMPARING AIRBORNE SOUND VS STRUCTURE-BORNE SOUND



# Structure Borne Sound Structure Borne Sound

**L. Cremer, M. Heckl, E.E. Ungar**



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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.

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Lothar Cremer, Manfred Heckl, 2013-06-29 When 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 one half years largely because the undersigned's other professional activities permitted him to devote only his spare time to the translation effort Because this passage of time also brought with it some advances in the state of the art an attempt was made to include the most significant of these advances as well as newer references and some minor corrections in the translated version Except for these changes which were made with the enthusiastic endorsement and collaboration of the original 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* Lothar Cremer, 2005. 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 worldwide. 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.

**STRUCTURE-BORNE SOUND**

L. Cremer, M. Heckl, E.E. Ungar, 1973. *A Guide to Airborne, Impact, and Structureborne Noise Control in Multifamily Dwellings*. United States. National Bureau of Standards, 1963. A Guide to Airborne, Impact, and Structureborne Noise Control in Multifamily Dwellings. United States. Federal Housing Administration, 1967. **Structure-borne Sound Sources in Buildings** Matthias Lievens, 2013. Structure-borne sound sources are vibrational sources connected in some way to the building structure. The mechanical excitation of the building structure leads to sound radiation. This is an important source of annoyance in modern light weight buildings. The prediction of the sound pressure level from structure-borne sound sources is highly complicated because of the complexity involved in the coupling between source and receiver structure. The current standard on characterisation of service equipment in buildings, EN 12354-5, can deal with sources on heavy structures, high mobility source, but to date, there is no engineering method available for the case of coupling between source and receiver. A case study of a washing machine on a wooden joist floor is investigated in this thesis. In the first part, measurements in the coupled state are conducted. It is shown that the normal components are sufficient to predict the sound pressure level. However, this only applies to the coupled state. In the second part, a true prediction is calculated from independently measured source and receiver quantities. The difference between predicted and directly measured sound pressure level leads to considerable errors of up to 20 dB at low frequencies. This shows that the normal components are not sufficient to predict the coupling between a washing machine and a wooden floor.

Structure Borne Sound Source Characterization Jean-Michel Mondot, 1985. **Structure Borne Sound Source Characterization** Jean-Michel Mondot, 1986. Structure Borne Sound Source Characterization Jean-Michel Mondot, 1985. *A Guide to Airborne, Impact, and Structure Borne Noise-control in Multifamily Dwellings* Raymond D. Berendt, George E. Winzer, Courtney B. Burroughs, United States. Federal Housing Administration, 1967. *Building Systems for Interior Designers* Corky Binggeli, Taylor Lucas, 2024-04-02. **BUILDING SYSTEMS FOR INTERIOR DESIGNERS**. Make design decisions informed by technical and structural knowledge with this

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Structure-borne Sound in Buildings D. I. Evans, University of Heriot-Watt, 1986      **A New Measurement Method for Separating Airborne and Structureborne Noise Radiated by Aircraft Type Panels** Michael C. McGary, 1982  
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