



Fundamentals of General Linear Acoustics

Finn Jacobsen, Peter Moller Juhl

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Acoustics deals with the production, control, transmission, reception, and effects of sound. Owing to acoustics being an interdisciplinary field, this book is intended to be equally accessible to readers from a range of backgrounds including electrical engineering, physics and mechanical engineering.

This book introduces the fundamentals of acoustic wave motion. It addresses in a clear and systematic way some of the most difficult parts of acoustics for beginners, such as the widely different approximations due to the wide frequency range, the apparently arbitrary choice between the use of analytical solutions to the wave equation with boundary conditions, and the fundamentally different energy-based considerations used in noise control. As a result, it provides readers with a self-contained source of information on acoustics which can be used for self-study or as a graduate course text.

Key features:

- Places an emphasis on detailed derivations based on the fundamental laws of physics and interpretations of the resulting formulas.
- Avoids, where possible, electrical and mechanical equivalent circuits, so as to make it accessible to readers with different backgrounds.
- Introduces duct acoustics, sound in enclosures, and sound radiation and scattering.
- Contains a set of appendices which includes material on signal analysis and processing as these tools are essential for the modern acoustician.

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