



# Handbook of Acoustics

By Malcolm J. Crocker

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Acoustical engineers, researchers, architects, and designers need a comprehensive, single-volume reference that provides quick and convenient access to important information, answers and questions on a broad spectrum of topics, and helps solve the toughest problems in acoustical design and engineering. The Handbook of Acoustics meets that need. It offers concise coverage of the science and engineering of acoustics and vibration.

In more than 100 clearly written chapters, experts from around the world share their knowledge and expertise in topics ranging from basic aerodynamics and jet noise to acoustical signal processing, and from the interaction of fluid motion and sound to infrasound, ultrasonics, and quantum acoustics. Topics covered include:

- \* General linear acoustics
- \* Nonlinear acoustics and cavitation
- \* Aeroacoustics and atmospheric sound
- \* Mechanical vibrations and shock
- \* Statistical methods in acoustics
- \* Architectural acoustics
- \* Physiological acoustics
- \* Underwater sound
- \* Ultrasonics, quantum acoustics, and physical aspects of sound
- \* Noise: its effects and control
- \* Acoustical signal processing
- \* Psychological acoustics
- \* Speech communication
- \* Music and musical acoustics
- \* Acoustical measurements and instrumentation
- \* Transducers

The Handbook of Acoustics belongs on the reference shelf of every engineer, architect, research scientist, or designer with a professional interest in the propagation, control, transmission, and effects of sound.

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## **Editorial Review**

### **From the Publisher**

This concise handbook focuses on the fundamentals of acoustics and vibration as they relate to engineers, researchers and designers (covering topics such as basic aerodynamics and jet noise, interaction of fluid motion and sound, infrasound, ultrasonic, quantum acoustics, etc.); while spending little time on what could be described as the "science and art" of acoustics (such as auditory function, acoustical properties of the outer and inner ear, psychological speech perception, music and musical acoustics, hearing and sound perception among vertebrate/invertebrate animals)

### **From the Back Cover**

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### **About the Author**

MALCOLM J. CROCKER is Distinguished University Professor in the Department of Mechanical Engineering at Auburn University, where he teaches and conducts research sponsored by industry and government in acoustics, noise, and vibration control. He is also the editor of the critically acclaimed Encyclopedia of Acoustics. He has published 80 refereed papers and 12 previous books on acoustics and noise control.

## **Users Review**

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