



Allan D. Pierce

Acoustics

An Introduction to Its Physical Principles and Applications

- Features a wealth of end-of-chapter problems and answers
- Written by the former Editor-in-Chief of the Acoustical Society of America
- Represents essential reading for all practicing and aspiring acousticians
- Facilitates instructional flexibility regarding topics covered, length of course, and interests of students
- Includes a new foreword and preface speaking to the book's continuing importance

This corrected version of the landmark 1981 textbook introduces the physical principles and theoretical basis of acoustics with deep mathematical rigor, concentrating on concepts and points of view that have proven useful in applications such as noise control, underwater sound, architectural acoustics, audio engineering, nondestructive testing, remote sensing, and medical ultrasonics. Since its publication, this text has been used as part of numerous acoustics-related courses across the world, and continues to be used widely today. During its writing, the book was fine-tuned according to insights gleaned from a broad range of classroom settings. Its careful design supports students in their pursuit of a firm foundation while allowing flexibility in course structure. The book can easily be used in single-term or full-year graduate courses and includes problems and answers. This rigorous and essential text is a must-have for any practicing or aspiring acoustician.

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