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Acoustics was originally the study of small pressure waves in air which can be detected by the human ear: sound. The scope of acoustics has been extended to higher and lower frequencies: ultrasound and infrasound. Structural vibrations are now often included in acoustics. Also the perception of sound is an area of acoustical research.

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Undergraduate-level text examines waves in air and in three dimensions, interference patterns and diffraction, and acoustic impedance, as illustrated in the behavior of horns. 1951 edition.

Focusing on the systems and engineering aspects of acoustics, this book emphasizes the importance of speech and hearing in our lives. Organized from simple to complex, enabling readers to apply concepts and explore issues, while also offering detailed illustrations and explanations. Examines key concepts of real life situations and features examples in music, speech, hearing, architecture, and other recent developments in acoustics. For anyone interested in learning more about acoustics; as a reference for practicing engineers.

Introduction, Fundamental particle vibration theory, Plane waves in air, Waves in three dimensions, Interference patterns diffraction, Acoustic impedance behavior of horns, Longitudinal waves in different gases waves in liquids and solids, Stationary waves vibrating sources musical instruments, Reflection and absorption of sound waves, Speech and hearing, Sound measurements experimental acoustics, Reproduction of sound, Miscellaneous applied acoustics,

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.

This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

This extraordinarily comprehensive text, requiring no special background, discusses the nature of sound waves, musical instruments, musical notation, acoustic materials, elements of sound reproduction systems, and electronic music. Includes 376 figures.

This guide to estimating uncertainties in the measurement, prediction and assessment of noise and vibration applies across environmental noise and vibration, occupational noise and vibration exposure, and building and architectural acoustics. The book collates information from the various Standards and from research, with explanation, examples and case studies. It enables estimation of uncertainty in the measurement and prediction of acoustic quantities, suitable for use in environmental impact and occupational exposure assessments. It is for acoustic consultants, mechanical and building service engineers, architect and building professionals and environmental health officers. Bob Peters worked for more than forty years in acoustics and noise control – teaching, research, consultancy. He was a principal acoustic consultant with Applied Acoustic Design, a senior research fellow at London South Bank University, and a tutor on Institute of Acoustics distance learning courses.

AN AUTHORITY, UP-TO-DATE INTRODUCTION TO PHYSICAL ACOUSTICS Easy to read and understand, Fundamentals of Physical Acoustics fills a long-standing need for an acoustics text that challenges but does not overpower graduate students in engineering and physics. Mathematical results and physical explanations go hand in hand, and a unique feature of the book is the balance it strikes between time-domain and frequency-domain presentations. Fundamentals of Physical Acoustics is intended for a two-semester, first-year graduate course, but is also suitable for advanced undergraduates. Emphasis on plane waves in the first part of the book keeps the mathematics simple yet accommodates a broad range of topics: propagation, reflection and transmission, normal modes and simple waveguides for rectilinear geometries, horns, inhomogeneous media, and sound absorption and dispersion. The second part of the book is devoted to a more rigorous development of the wave equation, spherical and cylindrical waves (including the more advanced mathematics required), advanced waveguides, baffled piston radiation, diffraction (treated in the time domain), and arrays. Applications and examples are drawn from: \* Atmospheric acoustics \* Noise control \* Underwater acoustics \* Engineering acoustics \* Acoustical measurements Supplemented with more than 300 graphs and figures as well as copious end-of-chapter problems, Fundamentals of Physical Acoustics is also an excellent professional reference for engineers and scientists.

“A lucid and passionate case for a more mindful way of listening. . . . Anyone who has ever clapped, hollered or yodeled at an echo will delight in [Cox’s] zestful curiosity.”—New York Times Trevor Cox is on a hunt for the sonic wonders of the world. A renowned expert who engineers classrooms and concert halls, Cox has made a career of eradicating bizarre and unwanted sounds. But after an epiphany in the London sewers, Cox now revels in exotic noises—creaking glaciers, whispering galleries, stalactite organs, musical roads, humming dunes, seals that sound like alien angels, and a Mayan pyramid that chirps like a bird. With forays into archaeology, neuroscience, biology, and design, Cox explains how sound is made and altered by the environment, how our body reacts to peculiar noises, and how these mysterious wonders illuminate sound’s surprising dynamics in everyday settings—from your bedroom to the opera house. The Sound Book encourages us to become better listeners in a world dominated by the visual and to open our ears to the glorious cacophony all around us.

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