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The classic acoustics reference! This widely-used book offers a clear treatment of the fundamental principles underlying the generation, transmission, and reception of acoustic waves and their application to numerous fields. The authors analyze the various types of vibration of solid bodies and the propagation of sound waves through fluid media.

This graduate and advanced undergraduate textbook systematically addresses all core

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topics in physical and engineering acoustics. Written by a well-known textbook author with 39 years of experience performing research, teaching, and mentoring in the field, it is specially designed to provide maximum support for learning. Presentation begins from a foundation that does not assume prior study of acoustics and advanced mathematics. Derivations are rigorous, thoroughly explained, and often innovative. Important concepts are discussed for their physical implications and their implementation. Many of the examples are mini case studies that address systems students will find to be

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interesting and motivating for continued study. Step-by-step explanations accompany example solutions. They address both the significance of the example and the strategy for approaching it. Wherever techniques arise that might be unfamiliar to the reader, they are explained in full. Volume I contains 186 homework exercises, accompanied by a detailed solutions manual for instructors. This text, along with its companion, Volume II: Applications, provides a knowledge base that will enable the reader to begin undertaking research and to work in core areas of acoustics.

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This textbook provides a unified approach to acoustics and vibration suitable for use in advanced undergraduate and first-year graduate courses on vibration and fluids. The book includes thorough treatment of vibration of harmonic oscillators, coupled oscillators, isotropic elasticity, and waves in solids including the use of resonance techniques for determination of elastic moduli. Drawing on 35 years of experience teaching introductory graduate acoustics at the Naval Postgraduate School and Penn State, the author presents a hydrodynamic approach to the acoustics of

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sound in fluids that provides a uniform methodology for analysis of lumped-element systems and wave propagation that can incorporate attenuation mechanisms and complex media. This view provides a consistent and reliable approach that can be extended with confidence to more complex fluids and future applications. Understanding Acoustics opens with a mathematical introduction that includes graphing and statistical uncertainty, followed by five chapters on vibration and elastic waves that provide important results and highlight modern applications while introducing

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analytical techniques that are revisited in the study of waves in fluids covered in Part II. A unified approach to waves in fluids (i.e., liquids and gases) is based on a mastery of the hydrodynamic equations. Part III demonstrates extensions of this view to nonlinear acoustics. Engaging and practical, this book is a must-read for graduate students in acoustics and vibration as well as active researchers interested in a novel approach to the material.

Market_Desc: Physicists, Acoustics/Sound
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Two new chapters on finite-amplitude acoustics and shock waves introduce the underlying acoustic principles and demonstrate how the fundamentals of acoustics can extend to more complicated problems. The discussion of normal modes and waveguides now appear in a single chapter, and includes normal modes in cylindrical and spherical cavities and propagation in layers.

Appendices now provide more information on physical constants, elementary transcendental functions, elements of thermodynamics, and elasticity and viscosity. Material on absorption, hearing, architectural acoustics

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and underwater sound has been expanded and updated. About The Book: The classic acoustics reference! This widely-used book offers a clear treatment of the fundamental principles underlying the generation, transmission, and reception of acoustic waves and their application to numerous fields. The authors analyze the various types of vibration of solid bodies and the propagation of sound waves through fluid media.

Senior level/graduate level text/reference presenting state-of-the-art numerical techniques to solve the wave equation in

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heterogeneous fluid-solid media. Numerical models have become standard research tools in acoustic laboratories, and thus computational acoustics is becoming an increasingly important branch of ocean acoustic science. The first edition of this successful book, written by the recognized leaders of the field, was the first to present a comprehensive and modern introduction to computational ocean acoustics accessible to students. This revision, with 100 additional pages, completely updates the material in the first edition and includes new models based on current research. It includes problems and

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solutions in every chapter, making the book more useful in teaching (the first edition had a separate solutions manual). The book is intended for graduate and advanced undergraduate students of acoustics, geology and geophysics, applied mathematics, ocean engineering or as a reference in computational methods courses, as well as professionals in these fields, particularly those working in government (especially Navy) and industry labs engaged in the development or use of propagating models.

AN AUTHORITATIVE, UP-TO-DATE INTRODUCTION TO
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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

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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: *

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acoustics * Noise control * Underwater
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Acoustical measurements Supplemented with
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of Physical Acoustics is also an excellent
professional reference for engineers and
scientists.

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

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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

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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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Edition of Fundamentals of Sound and
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and technical foundations of sound and
vibration at audio frequencies. It presents
Acoustics, vibration, and the associated
signal processing at a level suitable for
graduate students

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This is the first focused and detailed textbook on acoustic virtual reality. Auralization is the creation of audible acoustic sceneries from computer-generated data. The term "auralization" is to be understood as being analogue to the well-known technique of "visualization". In visual illustration of scenes, data or any other meaningful information, in movie animation and in computer graphics, we describe the process of "making visible" as visualization. In acoustics, auralization is taking place when acoustic effects, primary sound signals

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or means of sound reinforcement or sound transmission, are processed to be presented by using electro-acoustic equipment. This book is organized as a comprehensive collection of basics, methodology and strategies of acoustic simulation and auralization.

The developments in the field of ocean acoustics over recent years make this book an important reference for specialists in acoustics, oceanography, marine biology, and related fields. Fundamentals of Acoustical Oceanography also encourages a new generation

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of scientists, engineers, and entrepreneurs to apply the modern methods of acoustical physics to probe the unknown sea. The book is an authoritative, modern text with examples and exercises. It contains techniques to solve the direct problems, solutions of inverse problems, and an extensive bibliography from the earliest use of sound in the sea to present references. Written by internationally recognized scientists, the book provides background to measure ocean parameters and processes, find life and objects in the sea, communicate underwater, and survey the boundaries of the sea.

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Fundamentals of Acoustical Oceanography explains principles of underwater sound propagation, and describes how both actively probing sonars and passively listening hydrophones can reveal what the eye cannot see over vast ranges of the turbid ocean. This book demonstrates how to use acoustical remote sensing, variations in sound transmission, in situ acoustical measurements, and computer and laboratory models to identify the physical and biological parameters and processes in the sea. * Offers an integrated, modern approach to passive and active underwater acoustics *

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Contains many examples of laboratory scale models of ocean-acoustic environments, as well as descriptions of experiments at sea * Covers remote sensing of marine life and the seafloor * Includes signal processing of ocean sounds, physical and biological noises at sea, and inversions * resents sound sources, receivers, and calibration * Explains high intensities; explosive waves, parametric sources, cavitation, shock waves, and streaming * Covers microbubbles from breaking waves, rainfall, dispersion, and attenuation * Describes sound propagation along ray paths and caustics * Presents sound

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