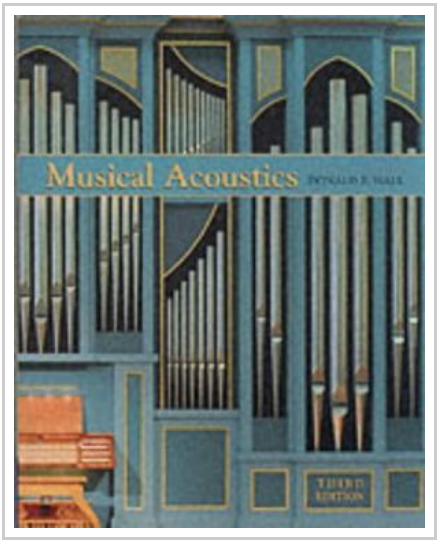

Musical Acoustics, 3rd Edition

By Hall, Donald E.

Brooks/Cole, 2001. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: 1. THE NATURE OF SOUND. Acoustics and Music. Organizing Our Study of Sound. The Physical Nature of Sound. The Speed of Sound. Pressure and Sound Amplitude. 2. WAVES AND VIBRATIONS. The Time Element in Sound. Waveforms. Functional Relations. Simple Harmonic Oscillation. Work, Energy, and Resonance. 3. SOURCES OF SOUND. Classifying Sound Sources. Percussion Instruments. String Instruments. Wind Instruments. Source Size. Sound from the Natural Environment. 4. SOUND PROPAGATION. Reflection and Refraction. Diffraction. Outdoor Music. The Doppler Effect. Interference and Beats. 5. SOUND INTENSITY AND ITS MEASUREMENT. Amplitude, Energy, and Intensity. Sound Level and the Decibel Scale. The Inverse-Square Law. Environmental Noise. Combined Sound Levels and Interference. 6. THE HUMAN EAR AND ITS RESPONSE. The Mechanism of the Human Ear. Limits of Audibility and Discrimination. Characteristics of Steady Single Tones. Loudness and Intensity. Pitch and Frequency. Pitch and Loudness Together. Timbre and Instrument Recognition. 7. ELEMENTAL INGREDIENTS OF MUSIC. Organizing Musical Events in Time. Melody and Harmony. Scales and Intervals. The Harmonic Series. 8. SOUND SPECTRA AND ELECTRONIC SYNTHESIS. Prototype Steady Tones. Periodic Waves and Fourier Spectra. Modulated Tones. Electronic and Computer Music. 9. PERCUSSION...

Reviews

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