



Engineering Noise Control: Theory and Practice, Second Edition

By Bies, David A.; Hansen, Colin H.

CRC Press, 1995. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface. Acknowledgements. Fundamentals and basic technology. Introduction. Noise control strategies: Existing installations; Installations, facilities and products in the design stage; Airborne vs structure-borne noise. The acoustic field variables and wave equation: variables; The acoustic field; Magnitudes; The speed of sound; Dispersion; Acoustic potential function and the wave equation. Plane and spherical waves: Plane wave propagation; Spherical wave propagation. Mean square quantities. Sound intensity: Plane wave and far field intensity; Spherical wave intensity; sound power. Units. Spectra: frequency analysis; A convenient property of one-third octave band center frequencies. Combining sound pressures: Addition of coherent sound pressures; Addition of incoherent sound pressures (logarithmic addition); Subtraction of sound pressure levels; Combining level reductions. Impedance: Mechanical impedance; Specific acoustic impedance; Acoustic impedance. Flow Resistance. The human ear. Brief description of the ear: External ear; Middle ear; Inner ear; Cochlear duct, or partition of the inner ear. Subjective response to sound pressure level: Loudness; Loudness level in phons; Comparative loudness and the sone. Pitch. Masking. Instrumentation for noise measurement and analysis. Microphones: Condenser microphone; Piezo-electrical microphone; Pressure response; Microphone sensitivity; Field effects and calibration. Weighting networks. Sound level...

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