



Handbook of Environmental Acoustics

By James P. Cowan

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Because environmental acoustics has a complex mathematical basis, it is often difficult to determine whether acoustical recommendations are valid. Handbook of Environmental Acoustics simplifies this decision-making process and provides easy-to-follow explanations of acoustic terminology, noise control design, and regulatory noise issues. The book clarifies key aspects of environmental noise in basic language, covering:

- * Common noise sources--including the risk of exposure to common daily environmental noise sources
- * Current noise regulations, guidelines, and standards--illustrating all key points
- * Acoustic terminology and environmental noise descriptors--providing a foundation for understanding noise issues
- * Effects of noise on people and animals--emphasizing the importance of restricting noise exposure
- * Relevant noise rating methods--clarifying the use of noise metrics
- * Construction and building code requirements--explaining current requirements and featuring tips on how to avoid privacy problems
- * Measurement considerations--demonstrating standard methods and offering practical advice on how to ensure proper measurement procedures
- * Noise control designs--detailing source-path-receiver systems and noise control fundamentals

In addition to traditional noise control methods, new areas, such as active noise control, sound intensity measurement, and diffusive designs, are explained. A sample municipal noise ordinance helps the user to draft an ordinance tailored to the needs of a particular community. Avoiding complex mathematics and analyses, Handbook of Environmental Acoustics is a user-friendly manual for urban planners, municipal officials, engineers, attorneys, industrial hygienists, architects, environmental professionals, and students in these fields.

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Editorial Review

From the Back Cover

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About the Author

James P. Cowan is President of Cowan Acoustical Associates in Newtown, PA. He has managed hundreds of acoustical projects nationwide, including the writing of New York City's environmental noise assessment guidelines in 1992. During his career he has provided consulting services to public agencies, architects, engineers, industrial personnel, and attorneys in all areas of acoustic design and noise control. He holds a master's degree in acoustics and is a board-certified noise control engineer. Mr. Cowan holds a patent for his design of a loudspeaker horn, and is a registered expert in acoustics and noise control with the Technical Advisory Service for Attorneys.

Users Review

From reader reviews:

Anna Brooks:

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Jeremy Robinson:

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