

Handbook of Environmental Acoustics

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This book, as the title implies, is devoted to environmental acoustics with emphasis on the general characteristics of sources of noise that affects the environment, construction issues that affect noise levels in offices, single-family dwellings, and multifamily dwellings. There is also a chapter on noise regulations, guidelines, and ordinances. The material on environmental acoustics is preceded by four chapters which cover acoustical terminology, noise descriptors, noise measurement, and noise control terminology and design. The latter chapter describes the source-path-receiver model often used in noise control, and contains information on the properties of acoustical materials, path noise control (mufflers, silencers, etc.), The principles of source noise control are given, but little emphasis is placed on this subject. Similarly, the receiver is given little emphasis.

The chapter on noise regulations, guidelines and ordinances gives many examples of federal, state, and local regulations, and gives guidelines for the drafting of municipal noise ordinances, and an appendix includes a model municipal noise ordinance. The chapter on common noise sources describes in general, and includes the characteristics of recreational, transportation, household, and natural sources of noise.