

Noise Control in the Built Environment

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This book begins with theoretical considerations in acoustics which include such basic topics as sound pressure, sound intensity, sound power, the sound fields in rooms, sound absorption, and sound transmission. Chapter 2 covers frequency weighting and instrumentation. The next three chapters cover environmental noise itself, and include information of sources of community noise such as traffic noise and aircraft noise, principles of building acoustics and sound insulation between dwellings, and industrial noise control. Chapter 6 deals with hearing conservation programs and audiometry. Chapter 7 covers noise in buildings from mechanical equipment such as fans, blowers, pumps, etc. The chapter gives information on noise reduction techniques including use of silencers and vibration isolators.

The final chapter in the book deals with applications for active sound attenuation, and outlines the principles of active attenuation in duct systems. Future applications of active noise control are also discussed.