

NOISE AND VIBRATION CONTROL

<i>DATA RELIABILITY</i>	49.1	<i>Equipment Vibration</i>	49.44
<i>ACOUSTICAL DESIGN OF HVAC SYSTEMS</i>	49.1	<i>Vibration Criteria</i>	49.45
<i>Receiver Considerations</i>	49.2	<i>Specification of Vibration Isolators</i>	49.46
<i>Basic Acoustical Design Techniques</i>	49.8	<i>Vibration- and Noise-Sensitive Facilities</i>	49.51
<i>Source Sound Levels</i>	49.8	<i>Internal Versus External Isolation</i>	49.51
<i>Path Noise Estimation and Control</i>	49.18	<i>Isolating Vibration and Noise in</i>	
<i>Receiver Room Sound Correction</i>	49.31	<i>Piping Systems</i>	49.52
<i>Sound Control for Outdoor Equipment</i>	49.34	<i>Seismic Protection</i>	49.54
<i>Frame Hood Duct Design</i>	49.35	<i>Vibration Investigations</i>	49.54
<i>Mechanical Equipment Room Sound Isolation</i>	49.36	COMMISSIONING	49.54
<i>HVAC Noise-Reduction Design Procedures</i>	49.39	TROUBLESHOOTING	49.54
VIBRATION ISOLATION AND CONTROL	49.43	<i>Determining Problem Source</i>	49.55
<i>Vibration Measurement</i>	49.43	<i>Determining Problem Type</i>	49.55

HVAC equipment for a building is one of the major sources of interior noise, and its effect on the acoustical environment is important. Also, noise from equipment located outdoors often propagates to the community. Therefore, mechanical equipment must be selected, and equipment spaces designed, with an emphasis on both the intended uses of the equipment and the goal of providing acceptable sound levels in occupied spaces of the building and in the surrounding community. Operation of HVAC equipment can also induce mechanical vibration that propagates into occupied spaces through structureborne paths such as piping, ductwork, and mounts. Vibration can cause direct discomfort and also create secondary radiation of noise from vibrating walls, floors, piping, etc.

In this chapter, *sound* and *noise* are used interchangeably, although only unwanted sound is considered to be noise.

System analysis for noise control uses the source-path-receiver concept. The source of the sound is the noise-generating mechanism. The sound travels from the source via a path, which can be through the air (airborne) or through the structure (structureborne), or a combination of both paths, until it reaches the receiver (building occupant or outdoor neighbor).

Components of the mechanical system (e.g., fans, dampers, diffusers, duct junctions) all may produce sound by the nature of the airflow through and around them. As a result, almost all HVAC components must be considered. Because sound travels effectively in the same or opposite direction of airflow, downstream and upstream paths are often equally important.

This chapter provides basic sound and vibration principles and data needed by HVAC system designers. Many of the equations associated with sound and vibration control for HVAC may be found in Chapter 8 of the 2017 *ASHRAE Handbook—Fundamentals*. Additional technical discussions along with detailed HVAC component and system design examples can be found in the references.

1. DATA RELIABILITY

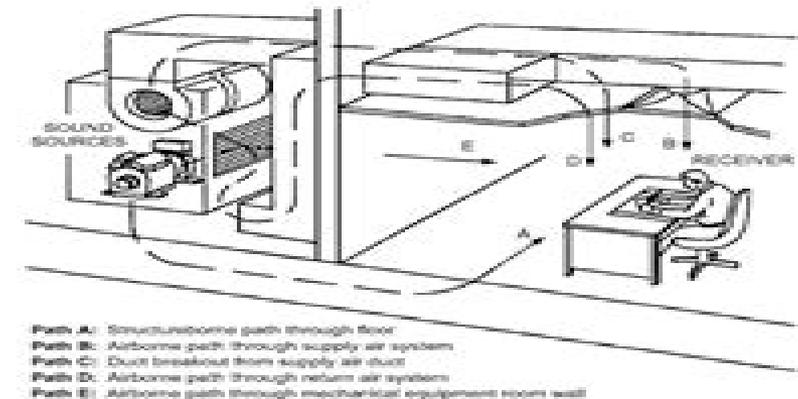
Data in this chapter come from both consulting experience and research studies. Use caution when applying the data, especially for situations that extrapolate from the framework of the original research. Test data tolerances and cumulative system effects lead to a typical uncertainty of ± 2 dB. However, significantly greater variations may occur, especially in low frequency ranges and particularly in the

63 Hz octave band, where experience suggests that even correctly performed estimates may disagree with actual measured levels by 5 dB, so conservative design practices should be followed.

2. ACOUSTICAL DESIGN OF HVAC SYSTEMS

For most HVAC systems, sound sources are associated with the building's mechanical and electrical equipment. As shown in Figure 1, there are many possible paths for airborne and structureborne sound and vibration transmission between a sound source and receiver. Noise control involves (1) selecting a quiet source, (2) optimizing room sound absorption, and (3) designing propagation paths for minimal noise transmission.

Different sources produce sounds that have different frequency distributions, called **spectral characteristics**. For example, as shown in Figure 2, fan noise generally contributes to sound levels in the 16 to 250 Hz octave bands (curve A). (Frequencies that designate the octave bands are often called **octave midband** [or **center**]



- Path A: Structureborne path through floor
- Path B: Airborne path through supply air system
- Path C: Duct breakout from supply air duct
- Path D: Airborne path through return air system
- Path E: Airborne path through mechanical equipment room wall

Fig. 1 Typical Paths of Noise and Vibration Propagation in HVAC Systems

The preparation of this chapter is assigned to TC 2.6, Sound and Vibration.

Noise Control Handbook Of Principles And Practices

Ensheng Dong



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Table of Contents Noise Control Handbook Of Principles And Practices

1. Understanding the eBook Noise Control Handbook Of Principles And Practices
 - The Rise of Digital Reading Noise Control Handbook Of Principles And Practices
 - Advantages of eBooks Over Traditional Books
2. Identifying Noise Control Handbook Of Principles And Practices
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Noise Control Handbook Of Principles And Practices
 - User-Friendly Interface
4. Exploring eBook Recommendations from Noise Control Handbook Of Principles And Practices

- Personalized Recommendations
 - Noise Control Handbook Of Principles And Practices User Reviews and Ratings
 - Noise Control Handbook Of Principles And Practices and Bestseller Lists
5. Accessing Noise Control Handbook Of Principles And Practices Free and Paid eBooks
 - Noise Control Handbook Of Principles And Practices Public Domain eBooks
 - Noise Control Handbook Of Principles And Practices eBook Subscription Services
 - Noise Control Handbook Of Principles And Practices Budget-Friendly Options
 6. Navigating Noise Control Handbook Of Principles And Practices eBook Formats
 - ePub, PDF, MOBI, and More
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 - Noise Control Handbook Of Principles And Practices Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Noise Control Handbook Of Principles And Practices
 - Highlighting and Note-Taking Noise Control Handbook Of Principles And Practices
 - Interactive Elements Noise Control Handbook Of Principles And Practices
 8. Staying Engaged with Noise Control Handbook Of Principles And Practices
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Noise Control Handbook Of Principles And Practices
 9. Balancing eBooks and Physical Books Noise Control Handbook Of Principles And Practices
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Noise Control Handbook Of Principles And Practices
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Noise Control Handbook Of Principles And Practices
 - Setting Reading Goals Noise Control Handbook Of Principles And Practices
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Noise Control Handbook Of Principles And Practices

- Fact-Checking eBook Content of Noise Control Handbook Of Principles And Practices
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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