Chapter 3: Sound Measurement: Instrumentation and Noise Metrics

3

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Contents

Microphone Selection and Calibration	-
Microphone Construction	
Microphone Types	
Microphone Dynamic Range	366
Calibration, Maintenance, and Environmental Factors	- 95
Factory Calibration of Microphones and Instruments.	- 35
Traceability of Records	36
Sound Measurement Metrics	
Root-Mean-Square Level	
Peak Level	
Weighting Filters	
Time Constants	
Time Averaged Sound Level	
Sound Exposure	- 43
Sound Exposure Level.	
Equivalent Sound Exposure Level	
Time-Weighted Sound Level	
Maximum Time-Weighted Sound Level	
Octave-Band Analysis Time-Waveform and Spectral Analysis	44
	-45
Noise Measurement Instruments for	
Industrial Hygiene	
Instrument Standards Class 1 and Class 2 Sound Level Meters	
	-47
Noise Dosimeters	-50
Spectrum Analyzers	-53
Recording Systems	53
Mobile Applications	-52 -53
	Section Section
Instrument Calibration	- 54
Sound Level Meter Calibrations	-55
Dosimeter Calibration	
Calibration of Other Instrumentation	- 5.5
Field Calibration	- 55

Potential Sources of Measurement Error	56
Barometric Correction	56
Corrections for Background Noise	5.6
Reflections	56
Quantization Errors.	57
Humidity	58
Temperature	58
Radio Frequency and Electromagnetic	
Interference (EMI)	58
Mechanical Vibration	58
Summary of Potential Sources of Errors	59
Conclusions	60
Appendix: Specialty Instrumentation for	
Impulsive Noise	6a
Resolution and Dynamic Range	62
Anti-Aliasing Filters	
Impulse and Impact Noise	63
Pelerenres	Sec.

Introduction

In industrial hygiene practice, noise exposure is measured to assess its potential detrimental effects on humans. Although hearing damage is the primary concern, other effects such as speech interference and annoyance are also of interest. Two categories of measurement are necessary. One provides data for predicting the potential effect of noise exposure on humans, the other provides data for engineering purposes directed toward mitigating hazardous noise exposures.

Microprocessors, computers, inexpensive mass storage, and mobile devices have led to a revolution in noisemeasuring instruments, data processing, and data retention. Connections between health factors and potential stressors in the environment permit a deeper level of understanding of their relationship with health outcomes. Because of the miniaturization of equipment and

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 - Advantages of eBooks Over Traditional Books
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 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - $\circ \ \ Determining \ Your \ Reading \ Goals$
- 3. Choosing the Right eBook Platform
 - $\circ \ \ Popular \ eBook \ Platforms$
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 - User-Friendly Interface
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 - Personalized Recommendations

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 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Noise Sources Manual
 - Setting Reading Goals Noise Sources Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Noise Sources Manual
 - Fact-Checking eBook Content of Noise Sources Manual

- Distinguishing Credible Sources
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