

Chapter 3: Sound Measurement: Instrumentation and Noise Metrics

3

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Contents

Introduction	29
Microphone Selection and Calibration	31
Microphone Construction	31
Microphone Types	32
Microphone Dynamic Range	34
Calibration, Maintenance, and Environmental Factors	35
Factory Calibration of Microphones and Instruments	35
Traceability of Records	36
Sound Measurement Metrics	37
Root-Mean-Square Level	37
Peak Level	37
Weighting Filters	37
Time Constants	43
Time-Averaged Sound Level	42
Sound Exposure	43
Sound Exposure Level	44
Equivalent Sound Exposure Level	44
Time-Weighted Sound Level	44
Maximum Time-Weighted Sound Level	44
Octave-Band Analysis	44
Time-Waveform and Spectral Analysis	45
Noise Measurement Instruments for	
Industrial Hygiene	46
Instrument Standards	46
Class 1 and Class 2 Sound Level Meters	47
Noise Dosimeters	50
Spectrum Analyzers	53
Community Noise Analyzers	53
Recording Systems	53
Mobile Applications	53
Instrument Calibration	54
Sound Level Meter Calibrations	55
Dosimeter Calibration	55
Calibration of Other Instrumentation	55
Field Calibration	55

Potential Sources of Measurement Error	56
Barometric Correction	56
Corrections for Background Noise	56
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	61
Resolution and Dynamic Range	62
Anti-Aliasing Filters	63
Impulse and Impact Noise	63
References	64

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.

Mikroprocessors, computers, inexpensive mass storage, and mobile devices have led to a revolution in noise-measuring 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

Noise Sources Manual

Elliott H. Berger



Noise Sources Manual:

The Noise Manual Elliott H. Berger, 2003 Topics covered include fundamentals of sound vibration and hearing elements of a hearing conservation program noise interference and annoyance regulations standards and laws **Identification and Control of Noise Sources on a Manual Punch Press** Ronald Bruce Coleman, 1981 **AF Manual** United States. Department of the Air Force, 1957 **Air Force Manual** United States. Department of the Air Force, 1973 **OSHA Technical Manual** United States. Occupational Safety and Health Administration, 1990 **OSHA Technical Manual** United States. Occupational Safety and Health Administration. Directorate of Technical Support, 1991 **Industrial Noise Manual** American Industrial Hygiene Association, 1975 **OSHA Technical Manual** Occupational Safety and Health Administration, Staff, 1999-08-01 Used by the OSH Administration's compliance officers as a reference for technical information on safety and health issues this manual enables both business and industry to evaluate their own facilities for compliance with the Occupational Safety and Health Act The manual features all compliance and regulatory revisions issued by the Occupational Safety and Health Administration effective January 20 1999 and covers such topics as sampling and measurement methods health hazards construction operations health care facilities ergonomics and personal protective equipment **OSHA Technical Manual** United States. Occupational Safety and Health Administration. Office of Science and Technology Assessment, 1995 **The Sound Reinforcement Handbook** Gary Davis, Gary D. Davis, 1989 Yamaha Products Sound reinforcement is the use of audio amplification systems This book is the first and only book of its kind to cover all aspects of designing and using such systems for public address and musical performance The book features information on both the audio theory involved and the practical applications of that theory explaining everything from microphones to loudspeakers This revised edition features almost 40 new pages and is even easier to follow with the addition of an index and a simplified page and chapter numbering system New topics covered include MIDI Synchronization and an Appendix on Logarithms 416 Pages **Technical Manual** United States. War Department, 1942 **Industrial Noise Manual**, 1975

Handbook of Noise and Vibration Control Malcolm J. Crocker, 2007-10-05 Two of the most acclaimed reference works in the area of acoustics in recent years have been our Encyclopedia of Acoustics 4 Volume set and the Handbook of Acoustics spin off These works edited by Malcolm Crocker positioned Wiley as a major player in the acoustics reference market With our recently published revision of Beranek's Noise and Vibration Control Engineering Wiley is a highly respected name in the acoustics business Crocker's new handbook covers an area of great importance to engineers and designers Noise and vibration control is one largest areas of application of the acoustics topics covered in the successful encyclopedia and handbook It is also an area that has been under published in recent years Crocker has positioned this reference to cover the gamut of topics while focusing more on the applications to industrial needs In this way the book will become the best single source of need to know information for the professional markets *Instruction Manual for Obtaining Oceanographic Data*

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Geothermal development, Breitenbush Area, Willamette National Forest, Mt. Hood National Forest United States. Forest Service. Pacific Northwest Region,1976 **Willamette National Forest (N.F.)/Mt.Hood National Forest (N.F.), Breitenbush Area Geothermal Development** ,1978 *Geothermal Development Breitenbush Area: Appendix* United States. Forest Service. Pacific Northwest Region,1978

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 - The Rise of Digital Reading Noise Sources Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Noise Sources Manual
 - 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 Sources Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Noise Sources Manual
 - Personalized Recommendations
 - Noise Sources Manual User Reviews and Ratings
 - Noise Sources Manual and Bestseller Lists
5. Accessing Noise Sources Manual Free and Paid eBooks
 - Noise Sources Manual Public Domain eBooks
 - Noise Sources Manual eBook Subscription Services
 - Noise Sources Manual Budget-Friendly Options
6. Navigating Noise Sources Manual eBook Formats

- ePub, PDF, MOBI, and More
- Noise Sources Manual Compatibility with Devices
- Noise Sources Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Noise Sources Manual
 - Highlighting and Note-Taking Noise Sources Manual
 - Interactive Elements Noise Sources Manual
- 8. Staying Engaged with Noise Sources Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Noise Sources Manual
- 9. Balancing eBooks and Physical Books Noise Sources Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Noise Sources Manual
- 10. Overcoming Reading Challenges
 - 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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 - Utilizing eBooks for Skill Development
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 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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