

Chapter 3: Sound Measurement: Instrumentation and Noise Metrics

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By William J. Murphy, Chucui A. Kardous, and Scott E. Brueck

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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

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Siddappa N.Byrareddy



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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

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