



ASA NATIONAL STANDARDS CATALOG 49-2012

AMERICAN NATIONAL STANDARDS ON ACOUSTICS AND VIBRATIONS

Introduction

The Standards Publication Program of the Acoustical Society of America (ASA) is the responsibility of the ASA Committee on Standards (ASACOS) and the ASA Standards Secretariat, headed by its Standards Manager.

The Acoustical Society of America provides the Secretariat for four standards committees accredited by the American National Standards Institute (ANSI): S1 on Acoustics, S2 on Mechanical Vibration and Shock, S3 on Bioacoustics, and S12 on Noise.

These four accredited standards committees also provide the United States input to various international committees (IEC and ISO). Standards Committees S1 Acoustics and S3 Bioacoustics provide the United States input to ISO/TC 43 Acoustics, and IEC/TC 29 Electroacoustics, as the Technical Advisory Groups. S12 on Noise serves as the U.S. Technical Advisory Group for ISO/TC 43/SC 1 Noise. S2 serves as the U.S. Technical Advisory Group for ISO/TC 108, Mechanical Vibration, Shock and Condition Monitoring; ISO/TC 108/SC 2, Measurement and Evaluation of Mechanical Vibration and Shock as Applied to Machines, Vehicles, and Structures; ISO/TC 108/SC 3, Use and Calibration of Vibration and Shock Measuring Instruments; ISO/TC 108/SC 4, Human Exposure to Mechanical Vibration and Shock; and ISO/TC 108/SC 5, Condition Monitoring and Diagnostics of Machines.

ASACOS and the ASA Standards Secretariat provide administration for the U.S. Technical Advisory Groups listed above and administer the International Secretariats for: ISO/TC 108 Mechanical Vibration, Shock and Condition Monitoring and ISO/TC 108/SC 5 Condition Monitoring and Diagnostics of Machines.

Standards are reaffirmed, revised, or withdrawn every five years. The latest information on current ANSI national standards, as well as those under preparation, is available from the Standards Secretariat.

Note: For related International Standards, please refer to the ASA International Standards Catalog.

If you wish to review abstracts of the national standards listed in this Catalog or otherwise obtain the latest information on availability of acoustical standards, please connect with the **ASA HOME PAGE** at: <http://acousticalsociety.org/>.

For further information on the ASA Standards Publication Program, including the ASA National and International Standards Catalogs, please contact:

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NATIONAL STANDARDS ON ACOUSTICS

List of National Standards Available from the ASA Standards Secretariat

S1 STANDARDS ON ACOUSTICS

- **ANSI S1.1-1994 (R 2004)** American National Standard Acoustical Terminology. *Price: \$150.00.*
- **ANSI S1.4-1983 (R 2006)** American National Standard Specification for Sound Level Meters. This Standard includes **ANSI S1.4A-1985 (R 2006)** Amendment to ANSI S1.4-1983. *Price: \$100.00.*
- **ANSI/ASA S1.6-1984 (R 2011)** American National Standard Preferred Frequencies, Frequency Levels, and Band Numbers for Acoustical Measurements. *Price: \$90.00.*
- **ANSI/ASA S1.8-1989 (R 2011)** American National Standard Reference Quantities for Acoustical Levels. *Price: \$90.00.*
- **ANSI/ASA S1.11-2004 (R 2009)** American National Standard Specification for Octave-Band and Fractional-Octave-Band Analog and Digital Filters. *Price: \$110.00.*
- **ANSI/ASA S1.13-2005 (R 2010)** American National Standard Measurement of Sound Pressure Levels in Air. *Price: \$130.00.*
- **ANSI/ASA S1.14-1998 (R 2008)** American National Standard Recommendations for Specifying and Testing the Susceptibility of Acoustical Instruments to Radiated Radio-Frequency Electromagnetic Fields, 25 MHz to 1 GHz. *Price: \$100.00.*
- **ANSI/ASA S1.15-1997/Part 1 (R 2011)** American National Standard Measurement Microphones, Part 1: Specifications for Laboratory Standard Microphones. *Price: \$90.00.*
- **ANSI S1.15-2005/Part 2 (R 2010)** American National Standard Measurement Microphones, Part 2: Primary Method for Pressure Calibration of Laboratory Standard Microphones by the Reciprocity Technique. *Price: \$150.00.*
- **ANSI S1.16-2000 (R 2005)** American National Standard Method for Measuring the Performance of Noise Discriminating and Noise Canceling Microphones. *Price: \$90.00.*
- **ANSI S1.17-2004/Part 1** American National Standard Microphone Windscreens—Part 1: Measurements and Specification of Insertion Loss in Still or Slightly Moving Air. *Price: \$110.00.*
- **ANSI/ASA S1.18-2010** American National Standard Method for Determining the Acoustic Impedance of Ground Surfaces. (*Revision of ANSI S1.18-1999*). *Price: \$145.00.*
- **ANSI S1.20-1988 (R 2003)** American National Standard Procedures for Calibration of Underwater Electroacoustic Transducers. *Price: \$150.00.*
- **ANSI S1.22-1992 (R 2007)** American National Standard Scales and Sizes for Frequency Characteristics and Polar Diagrams in Acoustics. *Price: \$90.00.*
- **ANSI S1.24 TR-2002 (R 2007)** ANSI Technical Report Bubble Detection and Cavitation Monitoring. *Price: \$80.00.*
- **ANSI S1.25-1991 (R 2007)** American National Standard Specification for Personal Noise Dosimeters. *Price: \$100.00.*
- **ANSI/ASA S1.26-1995 (R 2009)** American National Standard Method for Calculation of the Absorption of Sound by the Atmosphere. *Price: \$130.00.*
- **ANSI S1.40-2006 (R 2011)** American National Standard Specifications and Verification Procedures for Sound Calibrators. (*Revision of ANSI S1.40-1984*). *Price: \$150.00.*
- **ANSI/ASA S1.42-2001 (R 2011)** American National Standard Design Response of Weighting Networks for Acoustical Measurements. *Price: \$130.00.*
- **ANSI S1.43-1997 (R 2007)** American National Standard Specifications for Integrating-Averaging Sound Level Meters. *Price: \$100.00.*

S2 STANDARDS ON MECHANICAL VIBRATION AND SHOCK

- **ANSI/ASA S2.1-2009 / ISO 2041:2009**
American National Standard Mechanical vibration, shock and condition monitoring - Vocabulary. (Nationally Adopted International Standard). (*Revision of ANSI S2.1-2000/ISO 2041:1990*). *Price: \$176.00.*
- **ANSI/ASA S2.2-1959 (R 2011)** American National Standard Methods for the Calibration of Shock and Vibration Pickups. *Price: \$150.00.*
- **ANSI S2.4-1976 (R 2004)** American National Standard Method for Specifying the Characteristics of Auxiliary Analog Equipment for Shock and Vibration Measurements. *Price: \$100.00.*
- **ANSI S2.8-2007** American National Standard Technical Information Used for Resilient Mounting Applications. *Price: \$130.00.*
- **ANSI/ASA S2.9-2008** American National Standard Parameters for Specifying Damping Properties of Materials and System Damping. *Price: \$110.00.*
- **ANSI/ASA S2.16-1997 (R 2011)** American National Standard Vibratory Noise Measurements and Acceptance Criteria of Shipboard Equipment. *Price: \$90.00.*
- **ANSI/ASA S2.20-1983 (R 2011)** American National Standard Estimating Air Blast Characteristics for Single Point Explosions in Air, with a Guide to Evaluation of Atmospheric Propagation and Effects. *Price: \$130.00.*
- **ANSI S2.21-1998 (R 2007)** American National Standard Method for Preparation of a Standard Material for Dynamic Mechanical Measurements. *Price: \$90.00.*
- **ANSI S2.22-1998 (R 2007)** American National Standard Resonance Method for Measuring the Dynamic Mechanical Properties of Viscoelastic Materials. *Price: \$90.00.*
- **ANSI S2.23-1998 (R 2007)** American National Standard Single Cantilever Beam Method for Measuring the Dynamic Mechanical Properties of Viscoelastic Materials. *Price: \$90.00.*
- **ANSI/ASA S2.24-2001 (R 2011)** American National Standard Graphical Presentation of the Complex Modulus of Viscoelastic Materials. *Price: \$90.00.*
- **ANSI/ASA S2.25-2004 (R 2009)** American National Standard Guide for the Measurement, Reporting, and Evaluation of Hull and Superstructure Vibration in Ships. *Price: \$110.00.*
- **ANSI/ASA S2.26-2001 (R 2011)** American National Standard Vibration Testing Requirements and Acceptance Criteria for Shipboard Equipment. *Price: \$110.00.*
- **ANSI S2.27-2002 (R 2007)** American National Standard Guidelines for the Measurement and Evaluation of Vibration of Ship Propulsion Machinery. *Price: \$130.00.*
- **ANSI/ASA S2.28-2009** American National Standard Guide for the Measurement and Evaluation of Broadband Vibration of Surface Ship Auxiliary Rotating Machinery. *Price: \$110.00.*
- **ANSI/ASA S2.29-2003 (R 2008)** American National Standard Guide for the Measurement and Evaluation of Vibration of Machine Shafts on Shipboard Machinery. *Price: \$90.00.*
- **ANSI/ASA S2.31-1979 (R 2009)** American National Standard Methods for the Experimental Determination of Mechanical Mobility, Part 1: Basic Definitions and Transducers. *Price: \$100.00.*
- **ANSI/ASA S2.32-1982 (R 2009)** American National Standard Methods for the Experimental Determination of Mechanical Mobility, Part 2: Measurements Using Single-Point Translational Excitation. *Price: \$100.00.*
- **ANSI/ASA S2.34-1984 (R 2010)** American National Standard Guide to the Experimental Determination of Rotational Mobility Properties and the Complete Mobility Matrix. *Price: \$100.00.*
- **ANSI/ASA S2.46-1989 (R 2010)** American National Standard Characteristics to be Specified for Seismic Transducers. *Price: \$90.00.*
- **ANSI/ASA S2.61-1989 (R 2010)** American National Standard Guide to the Mechanical Mounting of Accelerometers. *Price: \$90.00.*
- **ANSI/ASA S2.62-2009** American National Standard Shock Test Requirements for Equipment in a Rugged Shock Environment. *Price: \$145.00.*

STANDARDS ON HUMAN EXPOSURE TO VIBRATION

- **ANSI/ASA S2.70-2006 (R 2011)** American National Standard Guide for the Measurement and Evaluation of Human Exposure to Vibration Transmitted to the Hand. (*Revision of ANSI S3.34-1986*).
Price: \$110.00.
- **ANSI S2.71-1983 (R 2006)** American National Standard Guide to the Evaluation of Human Exposure to Vibration in Buildings (*Reaffirmation and redesignation of ANSI S3.29-1983*). *Price: \$90.00.*
- **ANSI S2.72-2002/Part 1 (R 2007) / ISO 2631-1:1997** (*Redesignation of ANSI S3.18/Part 1-2002 / ISO 2631-1:1997*) American National Standard Mechanical vibration and shock - Evaluation of human exposure to whole-body vibration – Part 1: General requirements. (Nationally Adopted International Standard).
Price: \$145.00.
- **ANSI/ASA S2.72/Part 1 Amd. 1-2010 / ISO 2631-1 Amd. 1:2010** American National Standard Mechanical vibration and shock - Evaluation of human exposure to whole-body vibration – Part 1: General requirements – Amendment 1 (Nationally Adopted International Standard Amendment). *Price: \$15.00.*
- **ANSI S2.72-2003/Part 4 (R 2007) / ISO 2631-4:2001** (*Redesignation of ANSI S3.18/Part 4 -2003 / ISO 2631-4:2001*) American National Standard Mechanical vibration and shock - Evaluation of human exposure to whole-body vibration – Part 4: Guidelines for the evaluation of the effects of vibration and rotational motion on passenger and crew comfort in fixed-guideway transport systems. (Nationally Adopted International Standard). *Price: \$75.00.*
- **ANSI/ASA S2.72/Part 4 Amd. 1-2010 / ISO 2631-4 Amd. 1:2010** American National Standard Mechanical vibration and shock - Evaluation of human exposure to whole-body vibration – Part 4: Guidelines for the evaluation of the effects of vibration and rotational motion on passenger and crew comfort in fixed-guideway transport systems – Amendment 1 (Nationally Adopted International Standard Amendment). *Price: \$15.00.*
- **ANSI S2.73-2002 (R 2007) / ISO 10819:1996** (*Redesignation of ANSI S3.40-2002 / ISO 10819:1996*) American National Standard Mechanical vibration and shock - Hand-arm vibration - Method for the measurement and evaluation of the vibration transmissibility of gloves at the palm of the hand. (Nationally Adopted International Standard). *Price: \$107.00.*

S3 STANDARDS ON BIOACOUSTICS

- **ANSI/ASA S3.1-1999 (R 2008)** American National Standard Maximum Permissible Ambient Noise Levels for Audiometric Test Rooms. *Price: \$100.00.*
- **ANSI/ASA S3.2-2009** American National Standard Method for Measuring the Intelligibility of Speech over Communication Systems. *Price: \$120.00.*
- **ANSI S3.4-2007** American National Standard Procedure for the Computation of Loudness of Steady Sounds. *Price: \$95.00.*
- **ANSI S3.5-1997 (R 2007)** American National Standard Methods for Calculation of the Speech Intelligibility Index. *Price: \$130.00.*
- **ANSI/ASA S3.6-2010** American National Standard Specification for Audiometers. (*Revision of ANSI S3.6-2004*). *Price: \$150.00.*
- **ANSI/ASA S3.7-1995 (R 2008)** American National Standard Method for Coupler Calibration of Earphones. *Price \$150.00.*
- **ANSI S3.13-1987 (R 2007)** American National Standard Mechanical Coupler for Measurement of Bone Vibrators. *Price: \$90.00.*
- **ANSI/ASA S3.20-1995 (R 2008)** American National Standard Bioacoustical Terminology. *Price: \$150.00.*
- **ANSI/ASA S3.21-2004 (R 2009)** American National Standard Methods for Manual Pure-Tone Threshold Audiometry. (*Revision of ANSI S3.21-1978*). *Price: \$110.00.*
- **ANSI/ASA S3.22-2009** American National Standard Specification of Hearing Aid Characteristics. (*Revision of ANSI S3.22-2003*). *Price: \$150.00.*

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- **ANSI/ASA S3.25-2009** American National Standard for an Occluded Ear Simulator. (*Revision of ANSI S3.25-1989*). *Price: \$110.00.*
- **ANSI/ASA S3.35-2010** American National Standard Method of Measurement of Performance Characteristics of Hearing Aids Under Simulated Real-Ear Working Conditions. (*Revision of ANSI S3.35-2004*). *Price: \$150.00.*
- **ANSI S3.36-1985 (R 2006)** American National Standard Specification for a Manikin for Simulated *in situ* Airborne Acoustic Measurements. *Price: \$100.00.*
- **ANSI S3.37-1987 (R 2007)** American National Standard Preferred Earhook Nozzle Thread for Postauricular Hearing Aids. *Price: \$90.00.*
- **ANSI S3.39-1987 (R 2007)** American National Standard Specifications for Instruments to Measure Aural Acoustic Impedance and Admittance (Aural Acoustic Immittance). *Price: \$100.00.*
- **ANSI S3.41-1990 (R 2008)** American National Standard Audible Emergency Evacuation Signal. *Price: \$90.00.*
- **ANSI S3.42-1992 (R 2007)** American National Standard Testing Hearing Aids with a Broad-Band Noise Signal. *Price: \$100.00.*
- **ANSI S3.44-1996 (R 2006)** American National Standard Determination of Occupational Noise Exposure and Estimation of Noise-Induced Hearing Impairment. *Price: \$130.00.*
- **ANSI/ASA S3.45-2009** American National Standard Procedures for Testing Basic Vestibular Function. *Price: \$120.00.*
- **ANSI S3.46-1997 (R 2007)** American National Standard Methods of Measurement of Real-Ear Performance Characteristics of Hearing Aids. *Price: \$100.00.*

S12 STANDARDS ON NOISE

- **ANSI/ASA S12.1-1983 (R 2011)** American National Standard Guidelines for the Preparation of Standard Procedures to Determine the Noise Emission from Sources. *Price: \$100.00.*
- **ANSI/ASA S12.2-2008** American National Standard Criteria for Evaluating Room Noise. *Price: \$130.00.*
- **ANSI/ASA S12.3-1985 (R 2011)** American National Standard Statistical Methods for Determining and Verifying Stated Noise Emission Values of Machinery and Equipment. *Price: \$100.00.*
- **ANSI S12.5-2006 / ISO 6926:1999 (R 2011)** American National Standard Acoustics - Requirements for the Performance and Calibration of Reference Sound Sources Used for the Determination of Sound Power Levels. (Nationally Adopted International Standard). *Price: \$85.00.*
- **ANSI/ASA S12.6-2008** American National Standard Methods for Measuring the Real-Ear Attenuation of Hearing Protectors. (*Revision of ANSI S12.6-1997*). *Price: \$130.00.*
- **ANSI S12.7-1986 (R 2006)** American National Standard Methods for Measurements of Impulse Noise. *Price: \$90.00.*
- **ANSI/ASA S12.8-1998 (R 2008)** American National Standard Methods for Determining the Insertion Loss of Outdoor Noise Barriers. *Price: \$150.00.*
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- **ANSI S12.9-2005/Part 4** American National Standard Quantities and Procedures for Description and Measurement of Environmental Sound, Part 4: Noise Assessment and Prediction of Long-Term Community Response. *Price: \$100.00.*

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- **ANSI/ASA S12.9-2007/Part 5** American National Standard Quantities and Procedures for Description and Measurement of Environmental Sound - Part 5: Sound Level Descriptors for Determination of Compatible Land Use. (*Revision of ANSI S12.9/Part 5-1998*). *Price: \$90.00.*
- **ANSI/ASA S12.9-2008/Part 6** American National Standard Quantities and Procedures for Description and Measurement of Environmental Sound - Part 6: Methods for Estimation of Awakenings Associated with Outdoor Noise Events Heard in Homes. (*Revision of ANSI S12.9/Part 6-2000*). *Price: \$110.00.*
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- **ANSI/ASA S12.11-2003/Part 1 (R 2008) / ISO 10302:1996 (MOD)** American National Standard Acoustics – Measurement of noise and vibration of small air-moving devices – Part 1: Airborne noise emission. (Modified Nationally Adopted International Standard). *Price: \$159.00.*
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- **ANSI/ASA S12.43-1997 (R 2007)** American National Standard Methods for Measurement of Sound Emitted by Machinery and Equipment at Workstations and Other Specified Positions. *Price: \$130.00.*
- **ANSI/ASA S12.44-1997 (R 2007)** American National Standard Methods for Calculation of Sound Emitted by Machinery and Equipment at Workstations and Other Specified Positions from Sound Power Level. *Price: \$100.00.*
- **ANSI/ASA S12.50-2002 (R 2007) / ISO 3740:2000** American National Standard Acoustics -Determination of sound power levels of noise sources - Guidelines for the use of basic standards. (Nationally Adopted International Standard). *Price: \$130.00*

ANSI/ASA S12.51-2002 (R 2007) / ISO 3741:1999 American National Standard Acoustics - Determination of sound power levels of noise sources using sound pressure – Precision method for reverberation rooms. This Standard includes Technical Corrigendum 1-2001. (Nationally Adopted International Standard). *This standard replaces ANSI S12.31-1990 and ANSI S12.32-1990. Price: \$189.00.*

• **ANSI/ASA S12.53-2011/Part 1 / ISO 3743-1:2010** American National Standard Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure- Engineering methods for small, movable sources in reverberant fields - Part 1: Comparison method for a hard-walled test room. (Nationally Adopted International Standard). *This standard, along with ANSI S12.53/Part 2-1999 replaces ANSI S12.33-1990. Price \$159.00.*

• **ANSI/ASA S12.53-1999/Part 2 (R 2009) / ISO 3743-2:1994** American National Standard Acoustics - Determination of sound power levels of noise sources using sound pressure – Engineering methods for small, movable sources in reverberant fields - Part 2: Methods for special reverberation test rooms. (Nationally Adopted International Standard). *This standard, along with ANSI S12.53/Part 1-2011 replaces ANSI S12.33-1990. Price: \$115.00.*

• **ANSI/ASA S12.54-2011 / ISO 3744:2010** American National Standard Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure – Engineering methods for an essentially free field over a reflecting plane. (Nationally Adopted International Standard). *This standard replaces ANSI S12.34-1988. Price: \$213.00.*

• **ANSI S12.55-2006 / ISO 3745:2003** American National Standard Acoustics - Determination of sound power levels of noise sources using sound pressure – Precision methods for anechoic and hemi-anechoic rooms. (Nationally Adopted International Standard). *This standard replaces ANSI S12.35-1990. Price: \$167.00.*

• **ANSI/ASA S12.56-2011 / ISO 3746:2010** American National Standard Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure – Survey method using an enveloping measurement surface over a reflecting plane. (Nationally Adopted International Standard). *Price: \$176.00.*

• **ANSI/ASA S12.57-2011 / ISO 3747:2010** American National Standard Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure – Engineering/survey methods for use *in situ* in a reverberant environment. (Nationally Adopted International Standard). *Price: \$167.00.*

• **ANSI/ASA S12.60-2010/Part 1** American National Standard Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools – Part 1: Permanent Schools. (*Revision and partition of ANSI/ASA S12.60-2002*). *Price for printed copy: \$5.00.*

• **ANSI/ASA S12.60-2009/Part 2** American National Standard Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools – Part 2: Relocatable Classroom Factors. *Price for printed copy: \$5.00.*

• **ANSI/ASA S12.64-2009/Part 1** American National Standard Quantities and Procedures for Description and Measurement of Underwater Sound from Ships – Part 1: General Requirements. *Price: \$120.00.*

• **ANSI/ASA S12.65-2006 (R 2011)** American National Standard for Rating Noise with Respect to Speech Interference. (*Revision of ANSI S3.14-1977*). *Price: \$90.00.*

• **ANSI/ASA S12.67-2008** American National Standard Pre-Installation Airborne Sound Measurements and Acceptance Criteria of Shipboard Equipment. *Price: \$110.00.*

• **ANSI/ASA S12.68-2007** American National Standard Methods of Estimating Effective A-Weighted Sound Pressure Levels When Hearing Protectors are Worn. *Price: \$130.00.*

• **ANSI/ASA S12.69-2010** American National Standard Procedure for Testing Railroad Horns *ex situ*. *Price: \$90.00.*



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*The Standards are available through the ASA Standards Store at **<http://asastore.aip.org/>**. Users will be asked to establish a username and password and accept the End User License before downloading the standard.*

OTHER STANDARDS

- **ANSI/IEEE STD. 260.4-1996** American National Standard Letter Symbols and Abbreviations for Quantities Used in Acoustics. (Revision and redesignation of ANSI/ASME Std. Y10.11-1984.). Price: \$100.00.

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