

Accredited Standards Committee on Mechanical Vibration and Shock - S2

Standards, specification, methods of measurement and test, and terminology in the field of mechanical vibration and shock, condition monitoring and diagnostics of machines, including the effects of exposure to mechanical vibration and shock on humans, including those aspects which pertain to biological safety, tolerance and comfort.

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1 S2/WG02 Standard Terminology for Mechanical Vibration and Shock

Active

Develop and maintain a standard terminology in the area of mechanical vibration and shock. Maintain communication and liaison with related ANSI WGs, relevant US regulatory agencies and relevant ISO standards groups.

Responsible for the following standards:

- ANSI/ASA S2.1/ISO 2041 Mechanical vibration, shock and condition monitoring - Vocabulary

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2 S2/WG04 Characterization of the Dynamic Mechanical Properties of Viscoelastic Polymers
Active

Develop and maintain standards in the area of dynamic properties of viscoelastic polymers including: characterization of dynamic mechanical properties; active measurement procedures; instrument calibration; data processing algorithms; and data reporting formats. The properties include: complex shear modulus; Young's modulus; Bulk modulus; Lamé constant, Poisson's ratio; and frequency-temperature shift functions. Maintain communication and liaison with related ANSI WGs, relevant US regulatory agencies and relevant ISO standards groups.

Responsible for the following standards:

- ANSI/ASA S2.8 Guide for Describing the Characteristics of Resilient Mountings
- ANSI/ASA S2.9 Parameters for Specifying Damping Properties of Materials and System Damping
- ANSI/ASA S2.21 Method for Preparation of a Standard Material for Dynamic Mechanical Measurements
- ANSI/ASA S2.22 Resonance Method for Measuring the Dynamic Mechanical Properties of Viscoelastic Materials
- ANSI/ASA S2.23 Single Cantilever Beam Method for Measuring the Dynamic Properties of Viscoelastic Materials
- ANSI/ASA S2.24 Graphical Presentation of the Complex Modulus of Viscoelastic Materials

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3 S2/WG05 Use and Calibration of Vibration and Shock Measuring Instruments
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Develop and maintain standards in the area of vibration and shock measuring instruments. Maintain communication and liaison with related ANSI WGs, relevant US regulatory agencies and relevant ISO standards groups.

Responsible for the following standards:

- ANSI/ASA S2.2 Methods for the Calibration of Shock and Vibration Pickups
- ANSI/ASA S2.46 Characteristics to be Specified for Seismic Transducers
- ANSI/ASA S2.61 Guide to the Mechanical Mounting of Accelerometers

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4 S2/WG08 Analysis Methods of Structural Dynamics
Active

Develop and maintain standards related to dynamic (time-varying) response of complex structural systems including: standardized terminology; measurement procedures; analysis methods; mechanical mobility; modal analysis; structural intensity; wavenumber analysis (spatial array processing); and structural damping. Maintain communication and liaison with related ANSI WGs, relevant US regulatory agencies and relevant ISO standards groups.

Responsible for the following standards:

- ANSI/ASA S2.31 Method for the Experimental Determination of Mechanical Mobility, Part 1: Basic Definitions and Transducers
- ANSI/ASA S2.32 Methods for the Experimental Determination of Mechanical Mobility, Part II: Measurements Using Single-Point Translational Excitation
- ANSI/ASA S2.34 Guide to the Experimental Determination of Rotational Mobility Properties and the Complete Mobility Mat

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5 S2/WG09 Training and Accreditation
Active

Develop and maintain standards relating to accreditation of organizations and training and certification of personnel in the area of: measurement and analysis; mechanical vibration and balance; mechanical structural integrity; electrical, thermal and tribology-related properties for acceptance, condition assessment and diagnostics of machinery. Maintain communication and liaison with related ANSI WGs, relevant US regulatory agencies and relevant ISO standards groups.

Responsible for the following standards:
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6 S2/WG10 Operational Monitoring and Condition Evaluation
Active

Develop and maintain standards relating to: measurement and analysis; mechanical vibration and balance; mechanical structural integrity; electrical, thermal and tribology-related properties for acceptance, condition assessment and diagnostics of machine. Maintain communication and liaison with related ANSI WGs, relevant US regulatory agencies and relevant ISO standards groups.

Responsible for the following standards:

- ANSI/ASA S2.28 Guide for the Measurement and Evaluation of Broadband Vibration of Surface Ship Auxiliary Rotating Machinery
- ANSI/ASA S2.29 Guide for the Measurement and Evaluation of Vibration of Machine Shafts on Shipboard Machinery

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7 S2/WG11 Measurement and Evaluation of Structure-Borne Noise and Mechanical Vibration of Ships
Active

Develop and maintain standards for measurement, evaluation and characterization of structure-borne noise and mechanical vibration of ships including required instrumentation; measurement procedures; data analysis; criteria for occupant performance, structural integrity and vibrational environment of machinery and equipment. Maintain communication and liaison with related ANSI WGs, relevant US regulatory agencies and relevant ISO standards groups.

Responsible for the following standards:

- ANSI/ASA S2.16 Vibratory Noise Measurements and Acceptance Criteria of Shipboard Equipment
- ANSI/ASA S2.25 Guide for the Measurement, Reporting and Evaluation of Hull and Superstructure Vibration in Ships
- ANSI/ASA S2.26 Vibration Testing Requirements and Acceptance Criteria for Shipboard Equipment
- ANSI S2.27 Guidelines for the Measurement and evaluation of ship propulsion machinery vibration

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8 S2/WG14 Measurement and Prediction of Ground-Borne Noise and Vibration
Active

Develop and maintain standards for prediction, measurement and assessment of ground-borne noise and vibration including: instrument selection; field procedures; data analysis; numerical procedures; reporting; and estimation of the line source.

Maintain communication and liaison with related ANSI WGs, relevant US regulatory agencies and relevant ISO standards groups.

Responsible for the following standards:

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9 S2/WG15 Shaft Alignment Methodology
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Develop and maintain a series of standards to define the methodology and criteria for effective rotating machinery shaft alignment measurement, analysis, correction and documentation. Maintain communication and liaison with related ANSI WGs, relevant US regulatory agencies and relevant ISO standards groups.

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10 S2/WG16 Auxiliary Equipment for Shock and Vibration Measurements
Active

Develop and maintain standards specifying the characteristics of auxiliary equipment for shock and vibration measurements. Maintain communication and liaison with related ANSI WGs, relevant US regulatory agencies and relevant ISO standards groups.

Responsible for the following standards:

- ANSI/ASA S2.4 Method for Specifying the Characteristics of Auxiliary Analog Equipment for Shock and Vibration Measurements.

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11 S2/WG39 Human Exposure to Mechanical Vibration and Shock
Active

Develop and maintain standards for shock and vibration and biodynamic environments with regard to criteria for health, safety performance and comfort, and guidelines regarding the effects of occupational and non-occupational exposures on the human population (environments of primary interest are: vibration, rotational oscillations, shock and impact transmitted to the whole-body or parts thereof) including: terminology; characterization of biodynamic properties of humans with and without support and restraints; biodynamic models or analogues; descriptions of physical, behavioral and physiological effects of mechanical environments.

Maintain communication and liaison with related ANSI WGs, relevant US regulatory agencies and relevant ISO standards groups

Responsible for the following standards:

- ANSI/ASA S2.70 Guide for the Measurement and Evaluation of Human Exposure to Vibration Transmitted to the Hand
- ANSI/ASA S2.71 Guide to the Evaluation of Human Exposure to Vibration in Buildings
- ANSI/ASA S2.72/ Part1 / ISO 2631-1 Mechanical vibration and shock - Evaluation of human exposure to whole-body vibration - Part 1: General requirements
- ANSI/ASA S2.72/Part 1 Amd. 1/ ISO 2631-1 Amd. 1 Mechanical vibration and shock - Evaluation of human exposure to whole-body vibration - Part 1: General requirements, AMENDMENT 1
- ANSI/ASA S2.72/Part 4 / ISO 2631-4 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-guide-way transport systems
- ANSI/ASA S2.72/Part 4 Amd. 1/ ISO 2631/4 Amd 1 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-guide-way transport systems, AMENDMENT 1

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12 S2/WG54 Atmospheric Blast Effects

Active

Develop and maintain standards for evaluating and characterizing the effects of single point explosions in air including the evaluation of atmospheric propagation and effects. Maintain communication and liaison with related ANSI WGs, relevant US regulatory agencies and relevant ISO standards groups.

Responsible for the following standards:

- ANSI/ASA S2.20 Estimating Airblast Characteristics for Single Point Explosions in Air, with a Guide to Evaluation of Atmospheric Propagation and Effects

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