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AMERICAN NATIONAL STANDARD **RESONANCE METHOD FOR MEASURING THE DYNAMIC MECHANICAL PROPERTIES OF VISCOELASTIC MATERIALS**

ANSI S2.22-1998

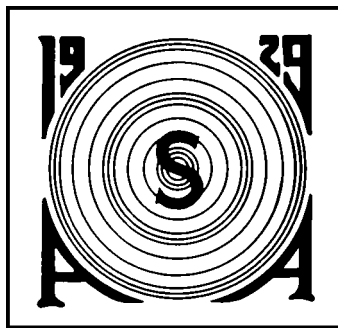
Accredited Standards Committee S2, Mechanical Vibration and Shock

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American National Standard

Resonance Method for Measuring the Dynamic Mechanical Properties of Viscoelastic Materials

Secretariat

Acoustical Society of America

Approved 22 June 1998

American National Standards Institute, Inc.

Abstract

This Standard defines a method for measuring the dynamic mechanical properties of viscoelastic materials using longitudinal resonance in a bar-shaped test sample. The dynamic mechanical properties are expressed in terms of the frequency dependence of Young's modulus and loss factor at a given reference temperature. The Standard provides information for constructing such equipment and analyzing the results obtained.

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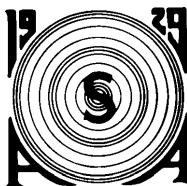
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Foreword

[This Foreword is for information only, and is not a part of ANSI S2.22-1998 *American National Standard Resonance Method for Measuring the Dynamic Mechanical Properties of Viscoelastic Materials*.]

This Standard was developed under the jurisdiction of Accredited Standards Committee S2, Mechanical Vibration and Shock, which has the following scope:

Standards, specifications, methods of measurement and test terminology in the fields of mechanical vibration and shock and condition monitoring and diagnostics of machines, but excluding those aspects which pertain to biological safety, tolerance, and comfort.

At the time this Standard was submitted to Accredited Standards Committee S2, Mechanical Vibration and Shock, for approval, the membership was as follows:

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