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ASTM	American Society for Testing and Materials (国际试验与材料协会)
成立时间	1898 年
学会性质	非营利性的标准学术团体
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E - 杂类（金属化学分析，耐火试验，无损试验，统计方法等）

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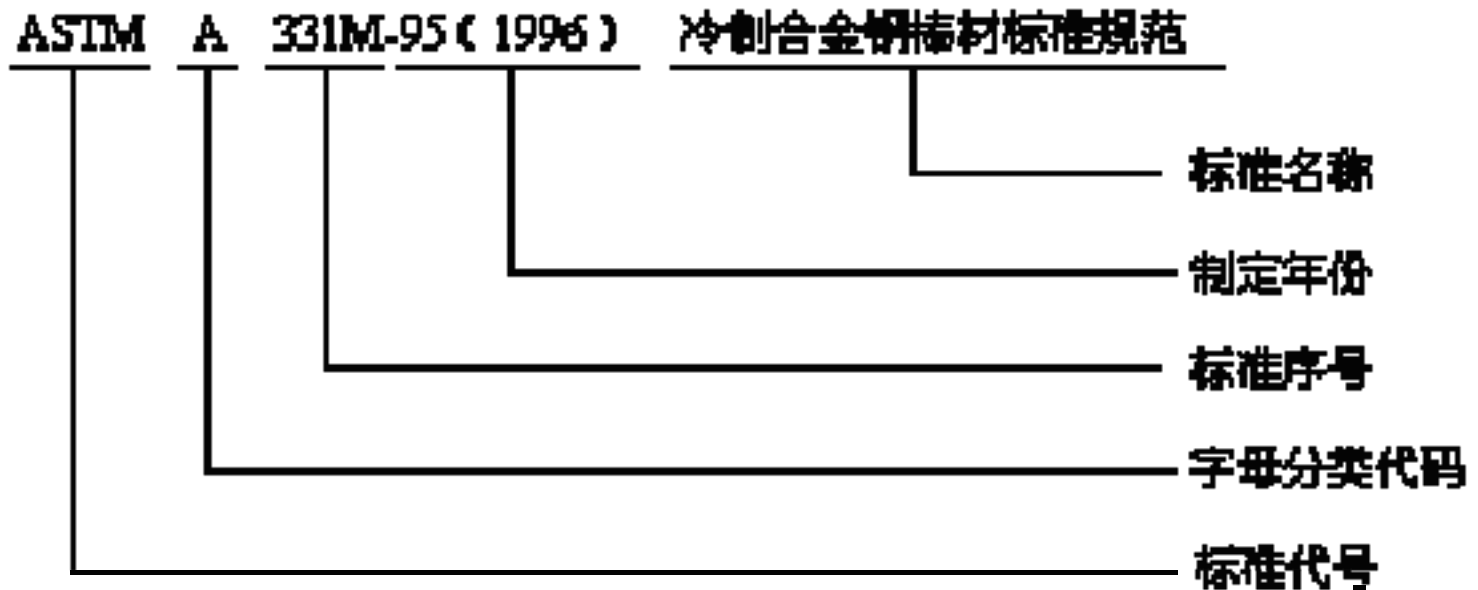
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... The other port must be located beneath the top port. A150 mm (6 in.) skirt, that is embedded into the soil, is provided along the edge of the ring. ...			
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... 6.6 Analytical Balance—The balance used to measure the loss in mass of the test specimen shall have a sensitivity of 0.0001 g. A150 g capacity balance is ...			
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... X1.5.1.2 A150 000 N capacity machine is to be verified from 300 N up to 150 000 N. The resolution should be determined at 300, 3000, and 30 000 N. ...			
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Significance and Use

This test method provides a means to measure low infiltration rates associated with fine-grained, clayey soils, and are in the range of 1×10^{-7} m/s to 1×10^{-9} m/s.

This test method is particularly useful for measuring liquid flow through soil moisture barriers such as compacted clay liner or covers used at waste disposal facilities, for canal and reservoir liners, for seepage blankets, and for amended soil liners such as those used for retention



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Designation: D 5093 – 02 (Reapproved 2008)

Standard Test Method for Field Measurement of Infiltration Rate Using Double-Ring Infiltrometer with Sealed-Inner Ring¹

This standard is issued under the fixed designation D 5093; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last approval. A superscripted epsilon (ϵ) indicates an editorial change since the last revision or approval.

1. Scope
 - 1.1 This test method describes a procedure for measuring the infiltration rate of water through in-place soils using a double-ring infiltrometer with a sealed inner ring.
 - 1.2 This test method is useful for soils with infiltration rates in the range of 1×10^{-7} m/s to 1×10^{-10} m/s. When infiltration rates $\geq 1 \times 10^{-7}$ m/s are to be measured Test Method D 3385 shall be used.
 - 1.3 All observed and calculated values shall conform to the guide for significant digits and rounding established in Practice D 6026.
 - 1.3.1 The method used to specify how data are collected, calculated, or recorded in this standard is not directly related to the accuracy to which the data can be applied in design or other uses, or both. How one applies the results obtained using this standard is beyond its scope.
 - 1.4 This test method provides a direct measurement of infiltration rate, not hydraulic conductivity. Although the units of infiltration rate and hydraulic conductivity are similar, there is a distinct difference between these two quantities. They cannot be directly related unless the hydraulic boundary conditions, such as hydraulic gradient and the extent of lateral flow of water are known or can be reliably estimated.
 - 1.5 This test method can be used for natural soil deposits, compacted soil layers, and amended soils such as soil bentonite and soil lime mixtures.
 - 1.6 The values stated in SI units are to be regarded as
2. Referenced Documents
 - 2.1 ASTM Standards:²
 - D 653 Terminology Relating to Soil, Rock, and Contained Fluids
 - D 3385 Test Method for Infiltration Rate of Soils in Field Using Double-Ring Infiltrometer
 - D 3740 Practice for Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction
 - D 6026 Practice for Using Significant Digits in Geotechnical Data
3. Terminology
 - 3.1 *Default term:*
 - 3.1.1 *infiltration*—downward entry of liquid into a porous body.
 - 3.1.2 *infiltration rate, I*—quantity of liquid entering a porous material (m^3) per unit area (m^2) per unit time (s), expressed in units of m/s .
 - 3.1.3 *infiltrometer*—a device used to pond liquid on a porous body and to allow for the measurement of the rate at which liquid enters the porous body.
 - 3.1.4 For definitions of other terms used in this test method, see Terminology D 653.
4. Summary of Test Method
 - 4.1 The infiltration rate of water through soil is measured

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FIG. 5

¹ This test method is under the jurisdiction of ASTM Committee D18 on Soil and Rock and is the direct responsibility of Subcommittee D18.04 on Hydrologic Properties and Hydraulic Series.
Current edition approved Sept. 1, 2008. Published September 2008. Originally approved in 1980. Last previous edition approved in 2002 as D 5093 – 02.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

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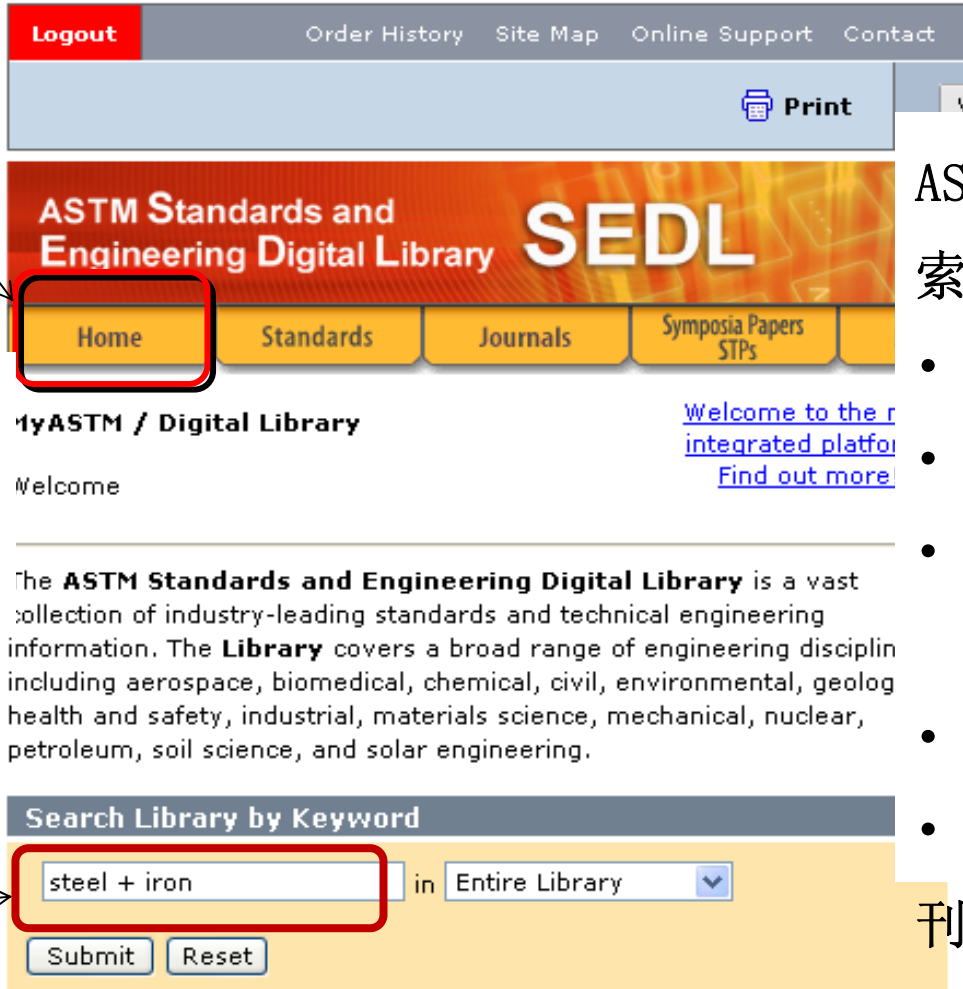
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... steel low alloy steel stainless steel low alloy steel low alloy steel stainless steel slag low alloy steel low alloy steel stainless steel iron ore low alloy ...	
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Sonon D., Pellegrino J., Wandrisco J.	
January 1978 STP644 10.1520/STP27105S	
... 3i. References [/] [2] [i] [4] [5] [6] [7] [«] Uhrus, L. O., Clean Steel , Iron and Steel Institute Special Report 77, London, 1963, pp. 104-109. ...	
Crack Growth Retardation in Two Low-Strength Materials Under Displacement Controlled Cyclic Loading	<input type="checkbox"/>
Kapp J., Underwood J., Zalinka J.	
January 1979 STP676 10.1520/STP37423S	
... 0.12 0.18 Cycles Applied 12 93 10 76 000 000 000 000 Crack Fracture Growth, Aε Required, mm mm 0.2 9.4 0.5 8.9 2.3 2.3 1.4 1.3 Material Steel Iron Specimen S ...	
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January 1988 STP986 10.1520/STP26740S	
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Mathis, R. Christopher
MC2 Mathis Consulting Co., Asheville, NC

Johnson, Steve
Andersen Corporation, Bayport, MN

Pages: 11 Published: Jan 2010

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Abstract

Collaborative efforts over several years resulted in the development of ASTM E2112, "Standard Practice for the Installation of Exterior Windows, Doors and Skylights". Individuals from the window, sealant, and air barrier industries were involved in the development of the standard. Development of the standard was driven by a desire to reduce water leakage attributed to window installation practices, particularly in residential and light commercial construction. A consensus document

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[E283-04](#) Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen

[E330-02](#) Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference

[E331-00\(2009\)](#) Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference



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New Methodology for Source Characterization in Pulse Velocity Testing

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(Received 7 February 2008; accepted 17 August 2009)

Abstract

The pulse velocity test (PVT) is an ASTM standard for the measurement of compressional wave velocities in geomaterials. The PVT is based only on the first arrival of the wave. Full-waveform analysis can be used to measure the variation in geomaterial properties with frequency but requires the dynamic characteristics of the transducers. This paper presents a new methodology for the dynamic characterization of ultrasonic transmitters based on experimental and numerical results. Different types of excitation pulses (input signals) are used, and their theoretical Fourier spectra are computed. The methodology is demonstrated using a piezoelectric accelerometer to measure the frequency response function of an ultrasonic transmitter (UT) (50 kHz)

Related Standards

[D3999-91\(2003\)](#)

Standard Test Methods for the Determination of the Modulus and Damping Properties of Soils Using the Cyclic Triaxial Apparatus

[D4015-07](#) Standard Test Methods for Modulus and Damping of Soils by Resonant-Column Method

[D4428/D4428M-07](#) Standard Test Methods for Crosshole Seismic Testing

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New Methodology for Source Characterization in Pulse Velocity Testing

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