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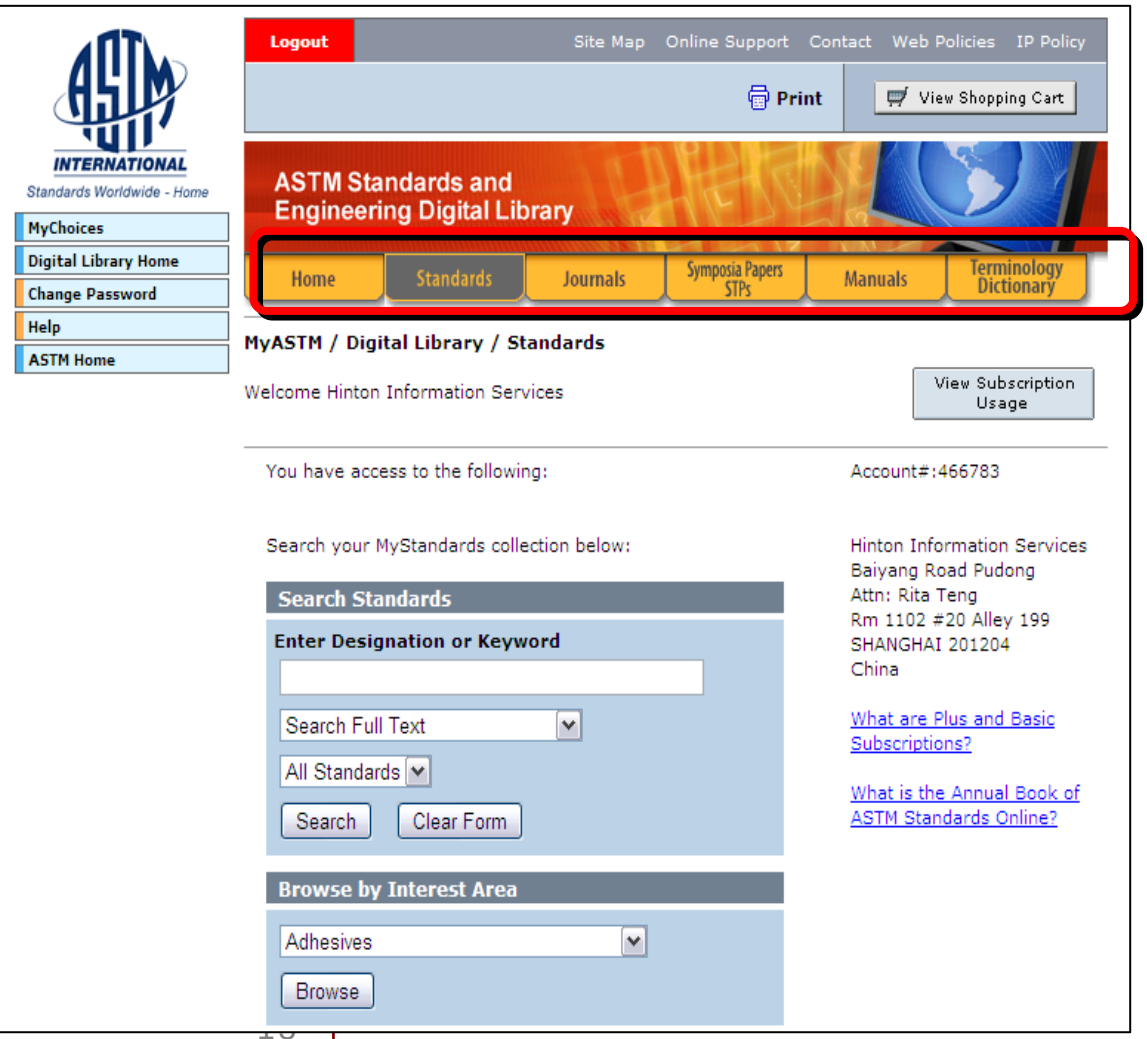
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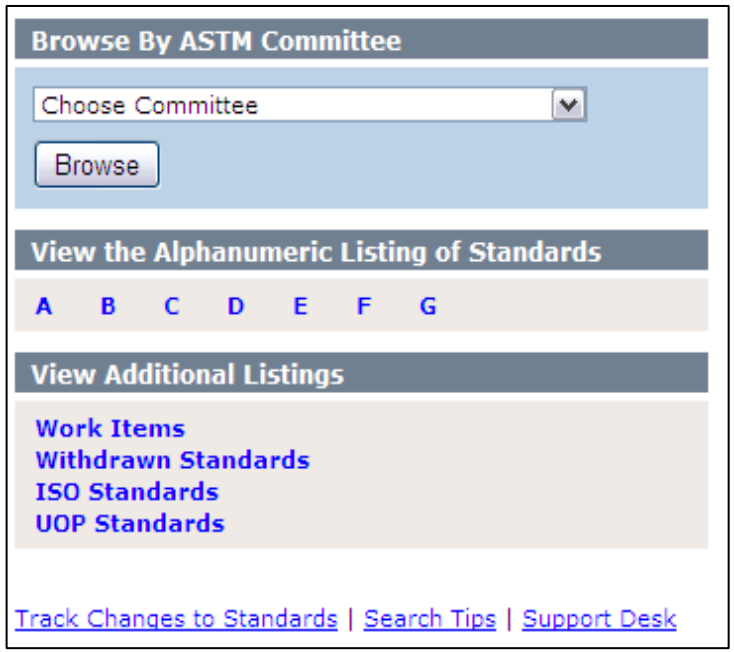
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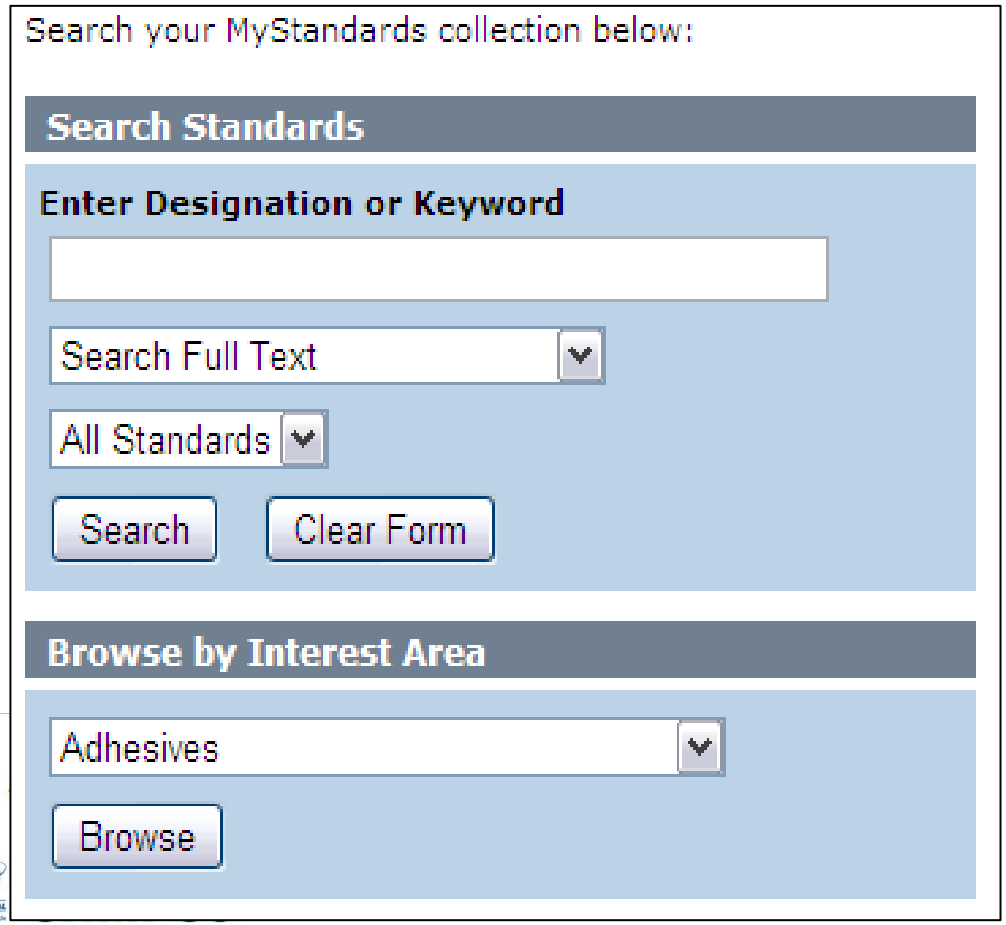

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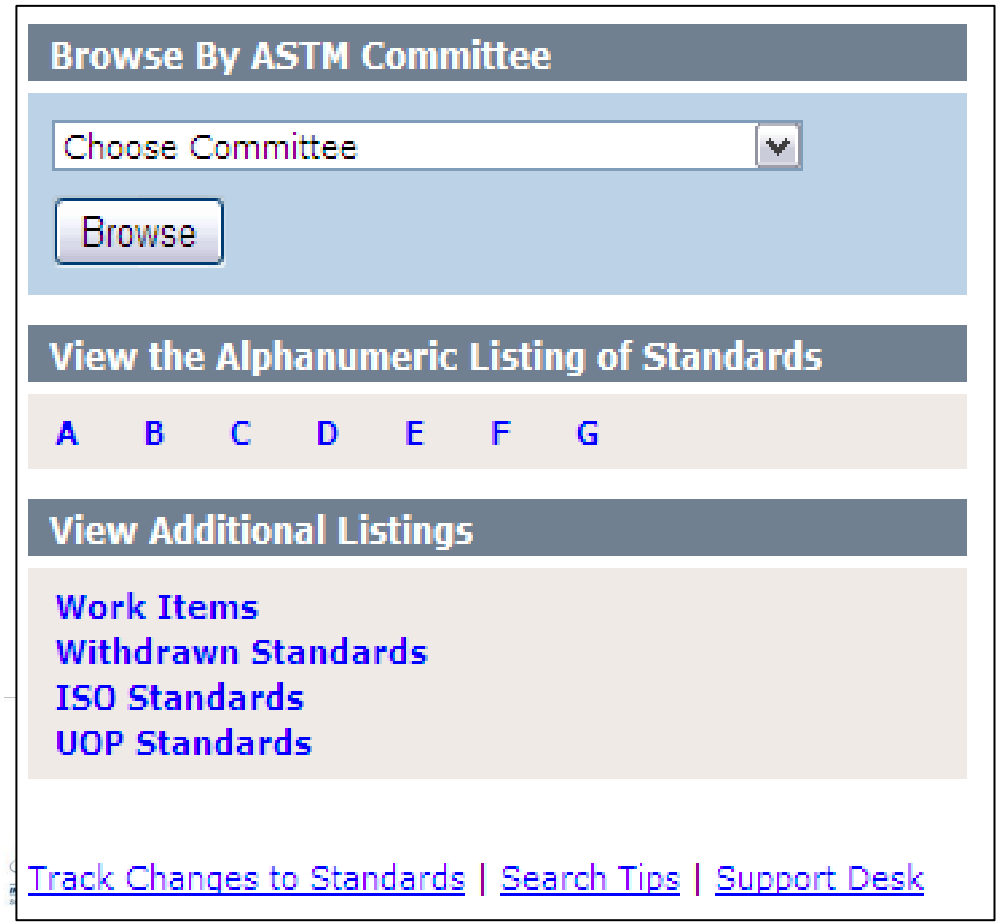

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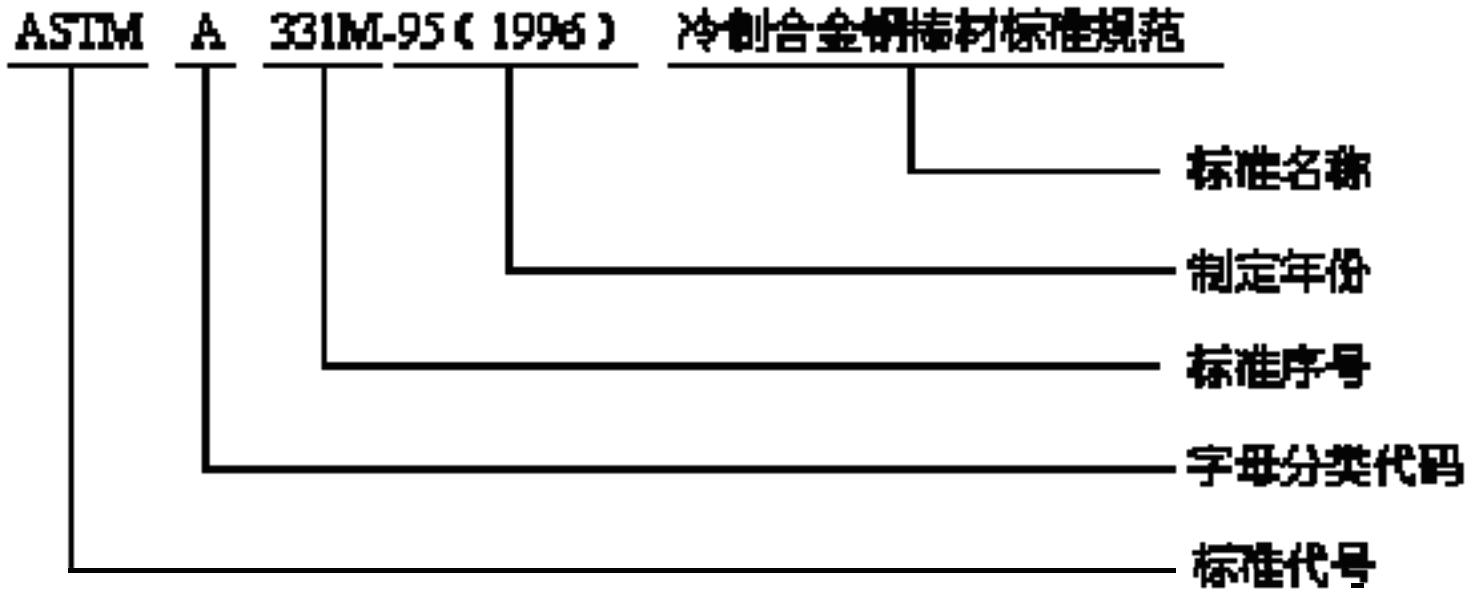

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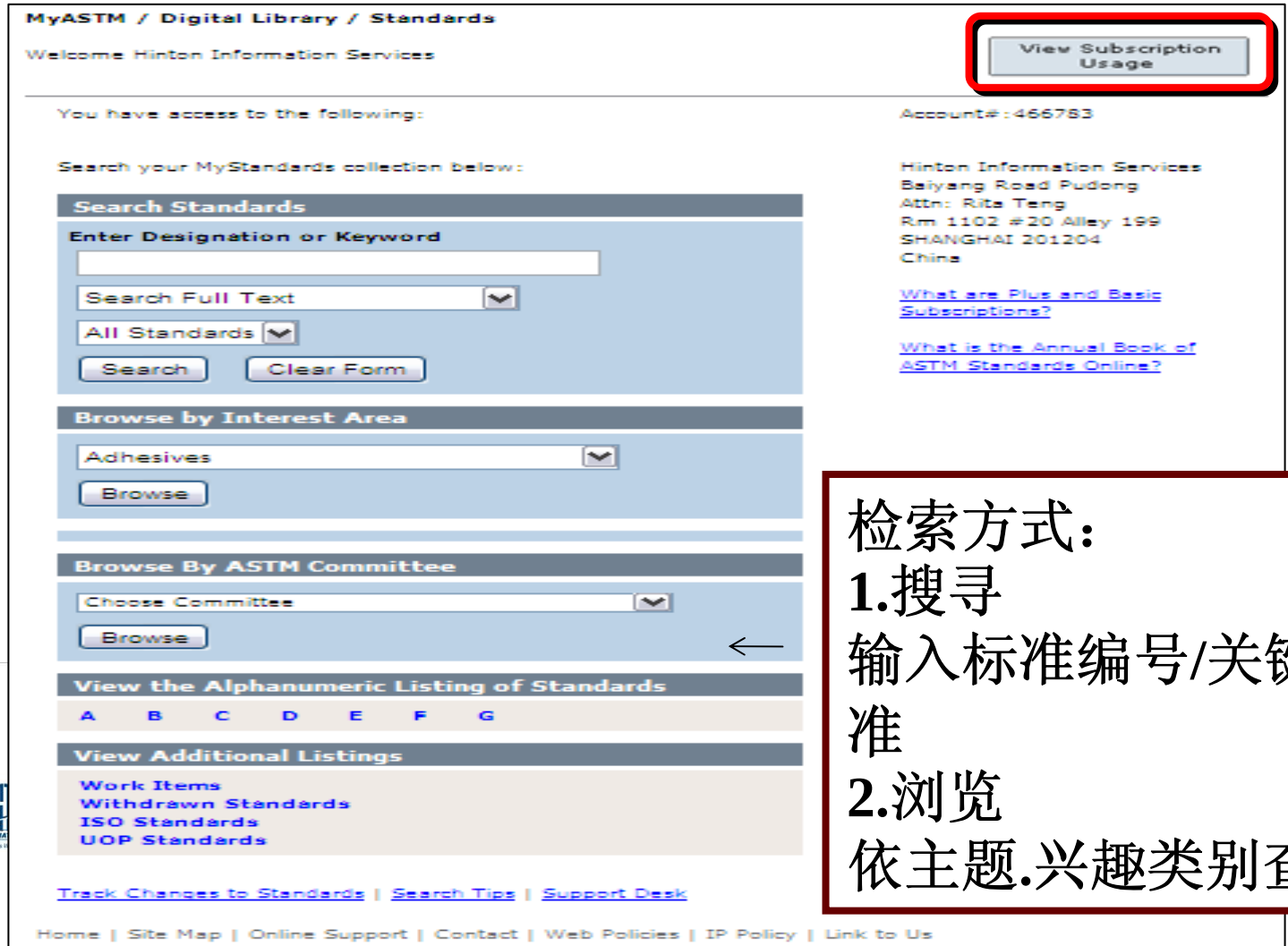

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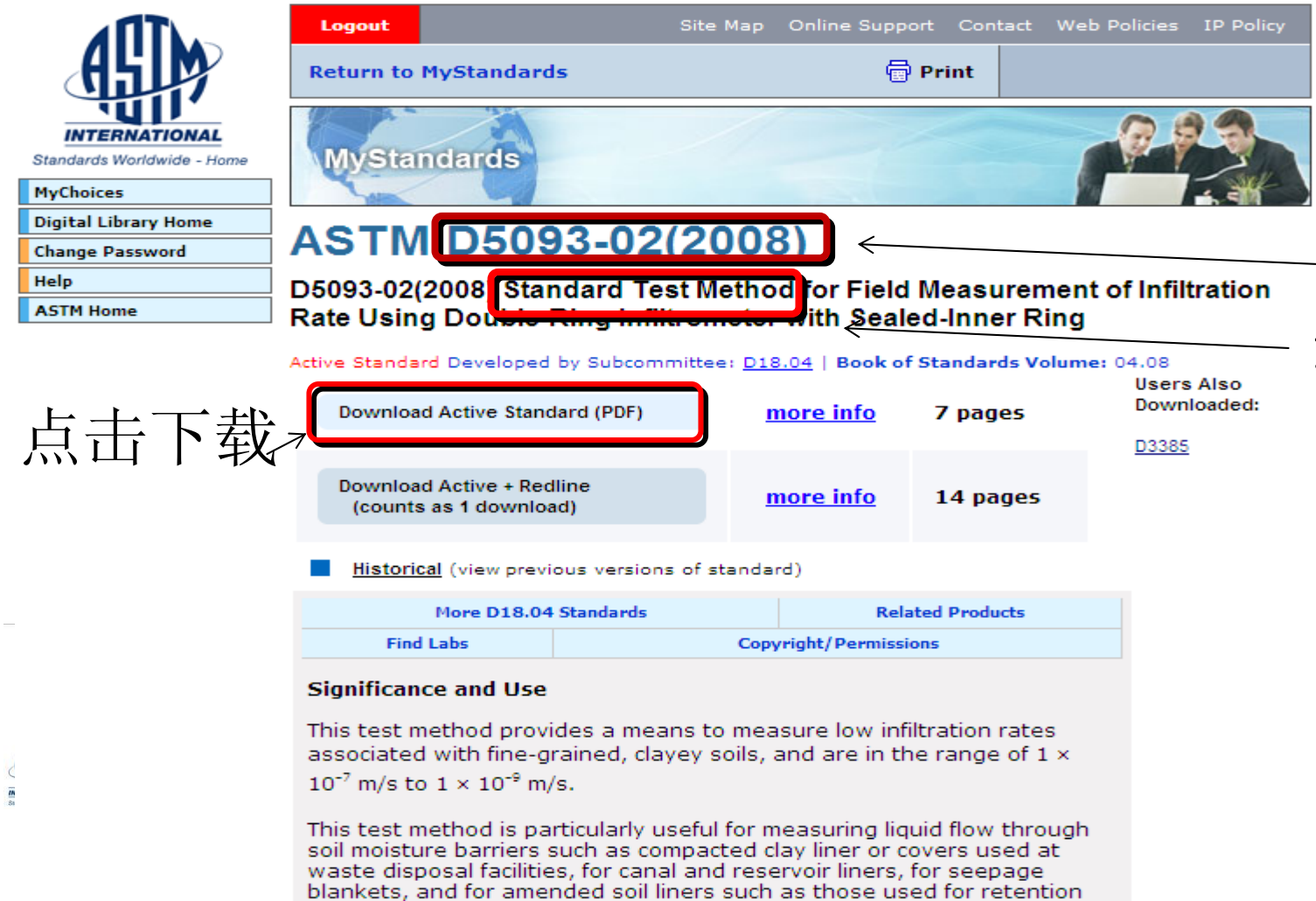

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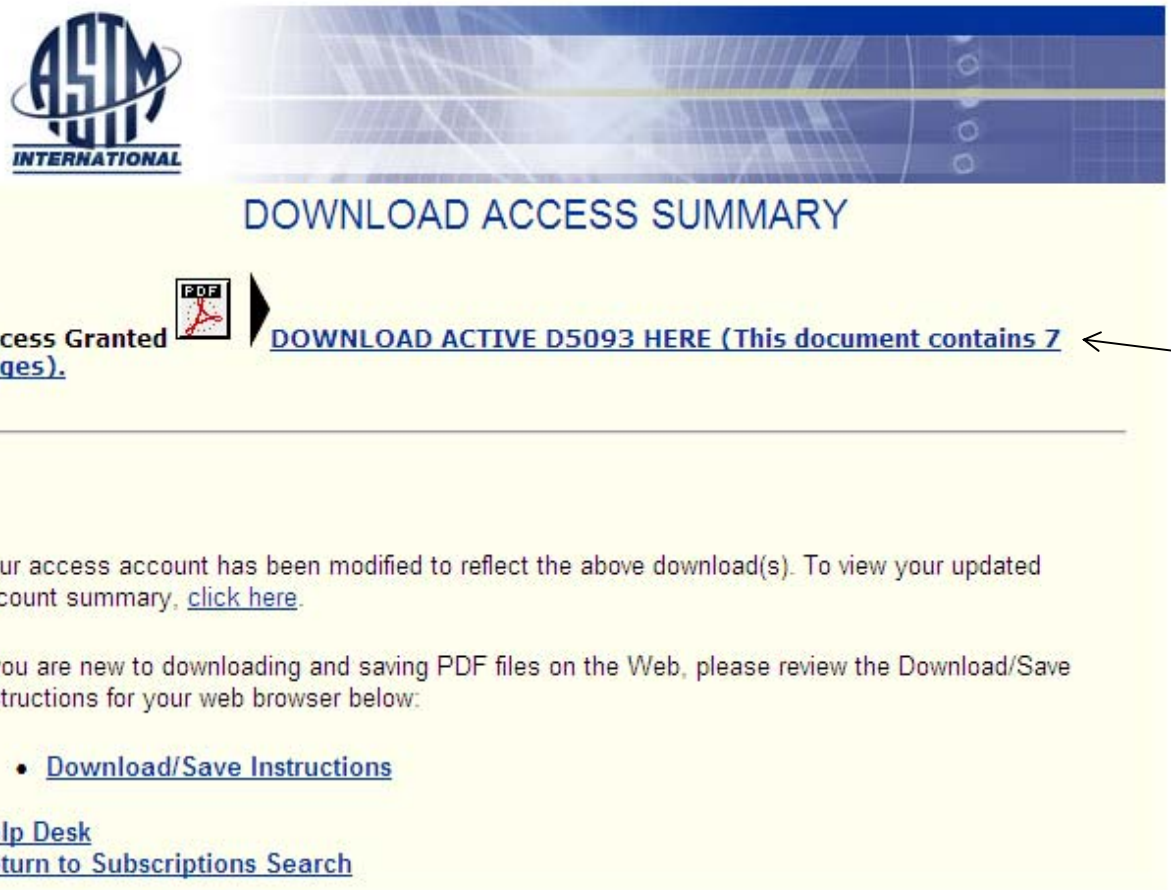

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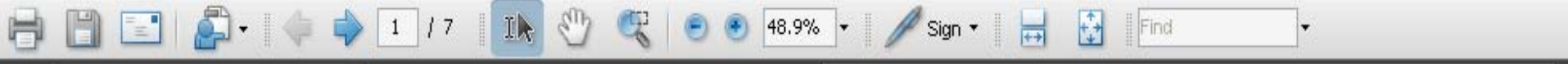

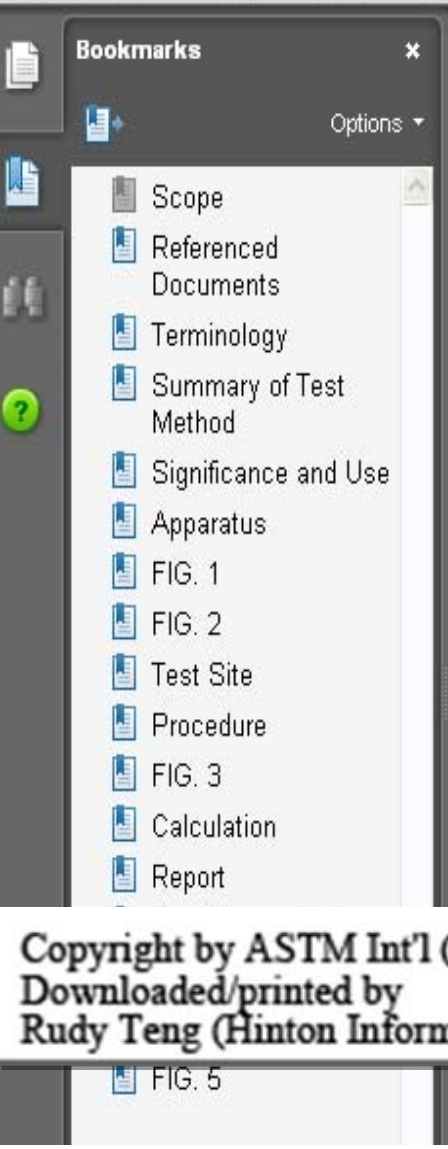

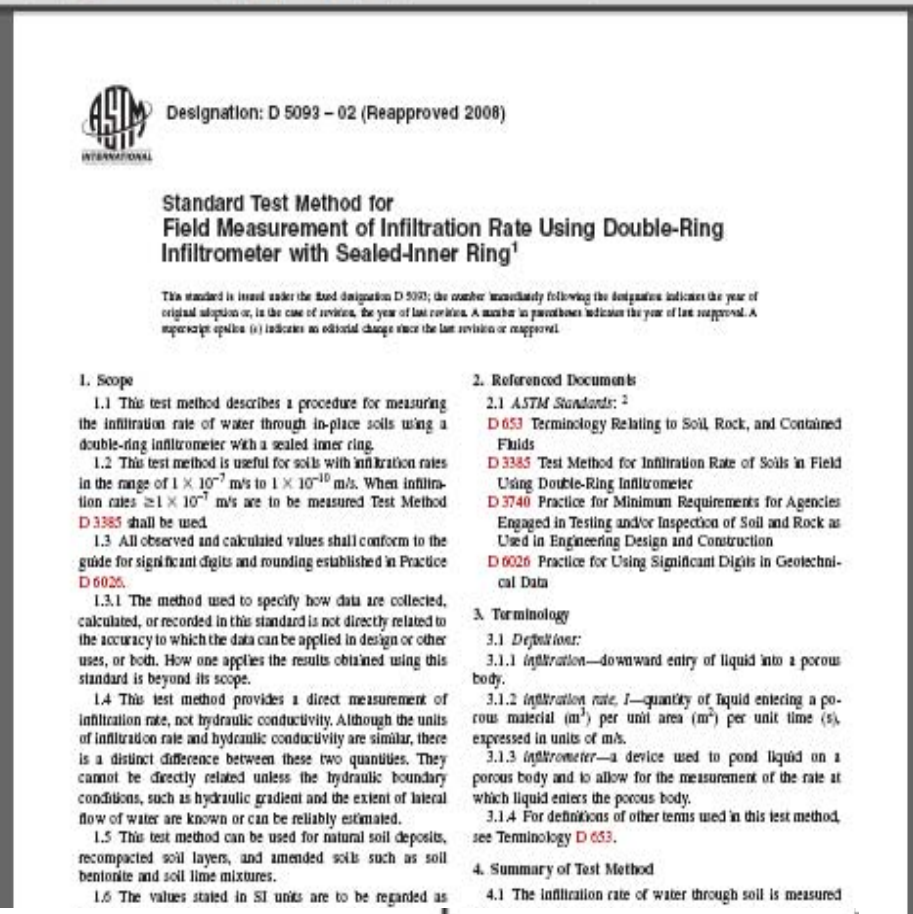

Designation: D 5093 – 02 (Reapproved 2008)

Standard Test Method for Field Measurement of Infiltration Rate Using Double-Ring Infiltrometer with Sealed-Inner Ring[1]

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 reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

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, recompacted 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 *Definitions:*

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

[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 Barriers.
Current edition approved Sept. 1, 2008. Published September 2008. Originally approved in 1990. 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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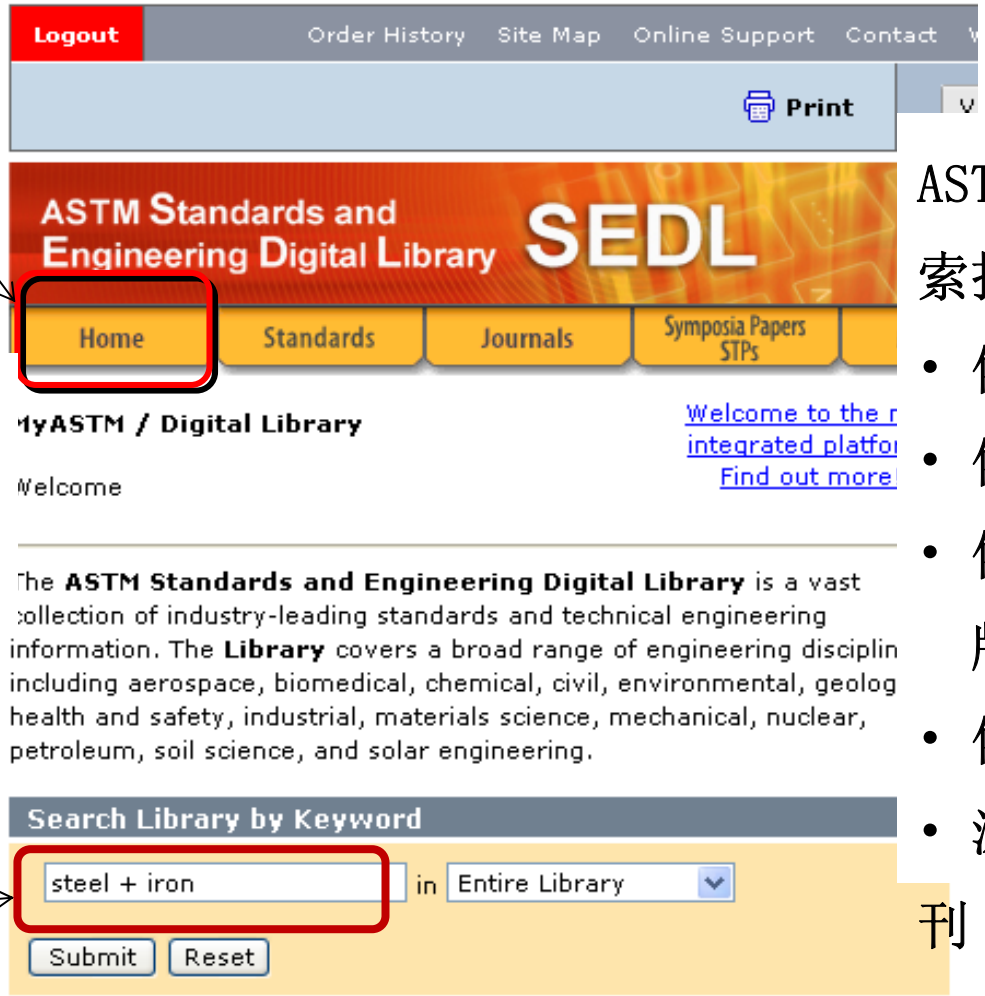

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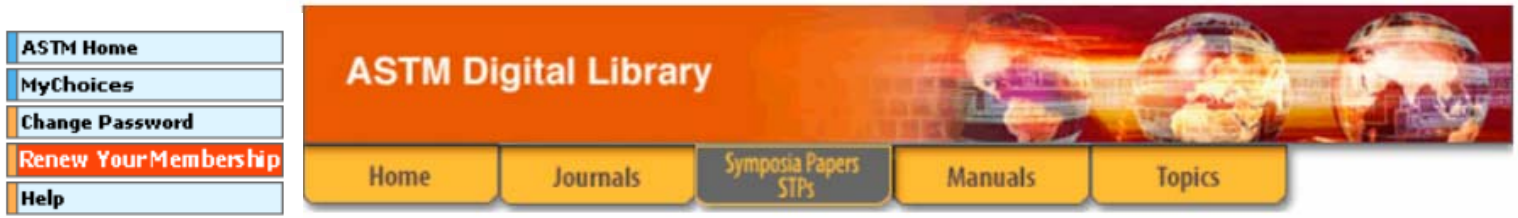

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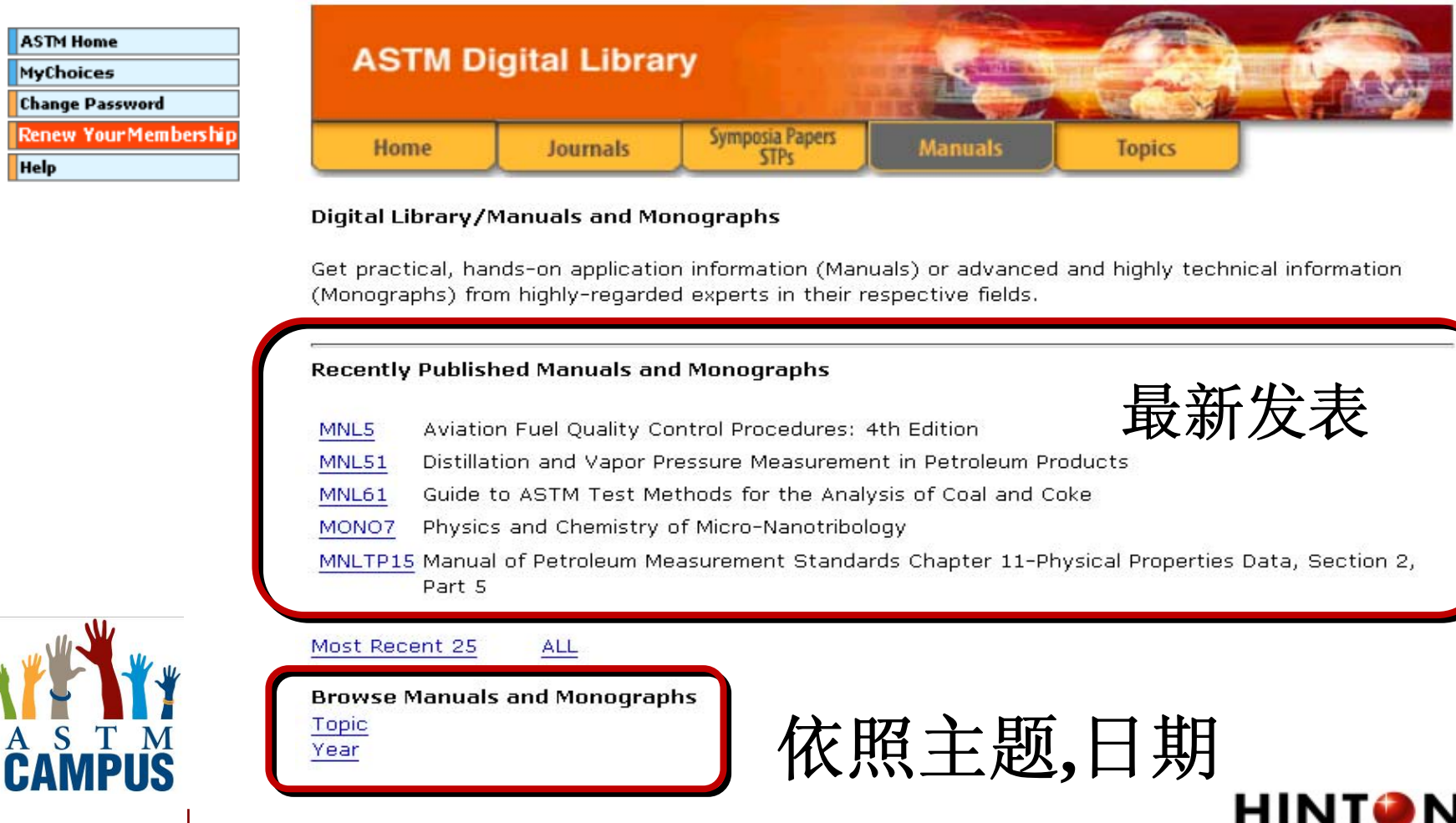
- 专业技术人员的参考文献，内容论述很多以技术性为内容的主题。专著通常聚集在一个大型的主题，也可以称之为特定主题。专门为技术精湛的读者提供专业领域的宝贵理论。

专著、手册 – Monographs, Mannuals



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New Methodology for Source Characterization in Pulse Velocity Testing

Tallavó, Fernando
Research Assistant,Civil and Environmental Engineering Dept., Univ. of Waterloo,ON,

Cascante, Giovanni
Associate Professor,Civil and Environmental Engineering Dept., Univ. of Waterloo,ON,

Pandey, Mahesh D.
Professor,Civil and Environmental Engineering Dept., Univ. of Waterloo,ON,

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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

D5311-92(2004)e1 Standard Test Method for Load Controlled Cyclic Triaxial Strength of Soil

D7400-08 Standard Test Methods for Downhole

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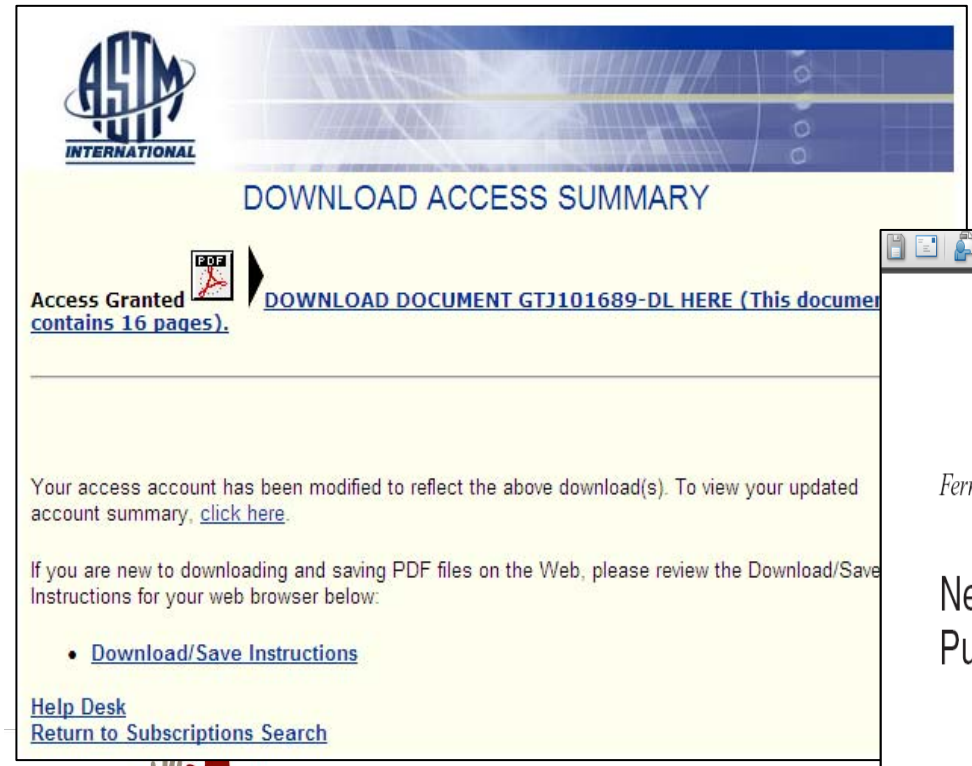

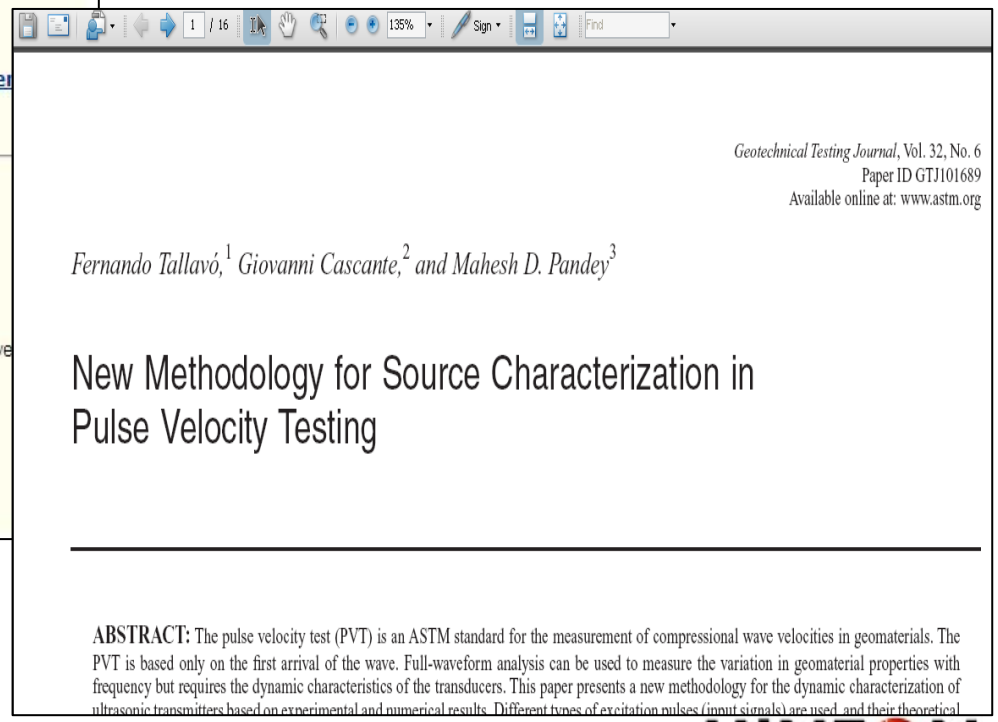

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Hinton Information Services

联络人: 何欣霓

电话: **010 58678949 (北京)**

021 50592439 (上海)

Email: arlene.ho@hintoninfo.com