

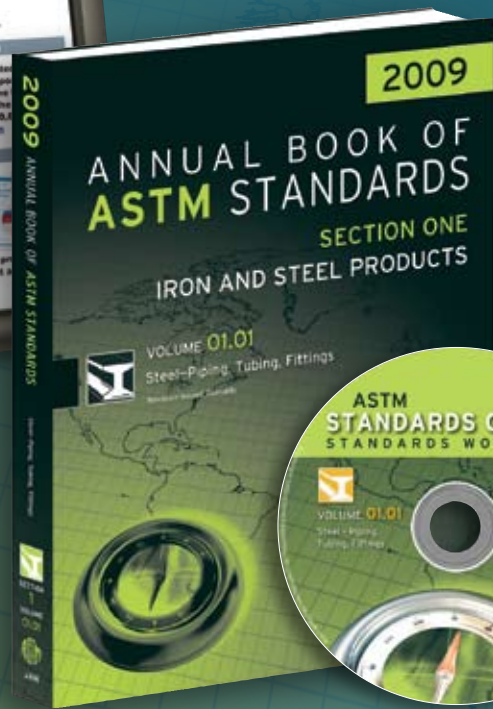
ASTM INTERNATIONAL STANDARDS CATALOG

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2009



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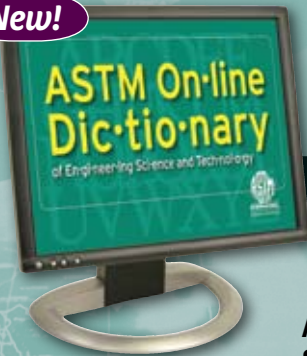
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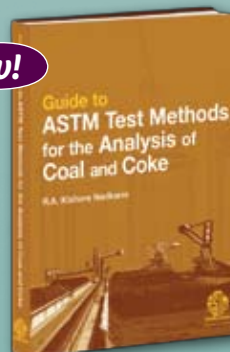
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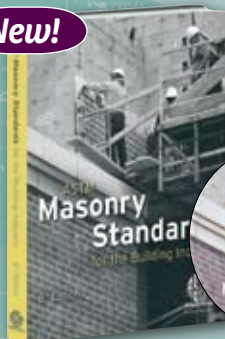
New!



Guide to ASTM Test Methods for the Analysis of Coal and Coke

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ASTM Masonry Standards for the Building Industry: 6th Edition

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ASTM Standards for Maintenance, Repair and Operations in the Chemical Process Industry: 3rd Edition

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IMPORTANT CHANGE for 2009

Volume 15.08 has been reorganized as follows:

All standards on livestock, meat, and poultry evaluation systems, as well as food service equipment have moved from Volume 15.08 to NEW Volume 15.12.

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This is the first major revision to ASTM E 2018, the most widely accepted guide for conducting property condition assessments (PCAs). These revisions include additional definitions, as well as clarifying and expanding several concepts.

E 2018 defines good commercial and customary practice in the U.S. for conducting a baseline PCA of improvements located on a parcel of commercial real estate by performing a walk-through survey and conducting research as outlined within this guide.

ASTM E 2018:

- Facilitates consistent and pertinent content in PCRs
- Develops practical and reasonable recommendations and expectations for site observations, document reviews, and research associated with conducting PCAs and preparing PCRs
- Establishes reasonable expectations for PCRs
- Assists in developing an industry baseline standard of care for appropriate observations and research
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Editor: M. P. Edison

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COAL and COKE

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Manual 61

Guide to ASTM Test Methods for the Analysis of Coal and Coke

Author: R. A. Kishore Nadkarni

The essential elements of all standard analytical ASTM tests used to characterize coal and coke are now available in one unique volume. This guide includes brief descriptions of 56 analytical test methods that cover the physical, chemical, and spectroscopic analytical techniques to qualitatively and quantitatively identify over 40 chemical and physical properties of coal, coke, their products, and by-products.

38 Pages (2008); Soft Cover: 8.5" x 11"; Price: \$67
ISBN: 978-0-8031-7002-5; Stock #: MNL61-C16



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ASTM Standards on Color and Appearance Measurement: 8th Edition

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800 Pages (2008); Soft Cover: 8.5" x 11"; Price: \$220
Print ISBN: 978-0-8031-6240-2; Stock #: COLOR08-C16
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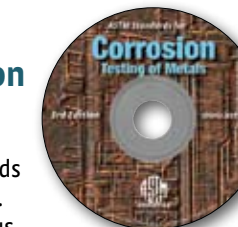
This new edition provides 106 ASTM standards that relate to the corrosion testing of metals. These standards are compiled from numerous volumes of the *Annual Book of ASTM Standards* and were developed by 28 ASTM technical committees.

Also includes a cross-index of titles and designations of these related corrosion standards:

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- 7 SAE standards
- 21 NACE standards
- 50 ISO standards

ASTM Standards for Corrosion Testing of Metals is a must-have companion to ASTM Volume 03.02 on Wear and Erosion; Metal Corrosion (see page 18 for information on Volume 03.02).

CD-ROM (2008); Price: \$202
ISBN: 978-0-8031-6468-0; Stock #: CORROSIONCD08-C16



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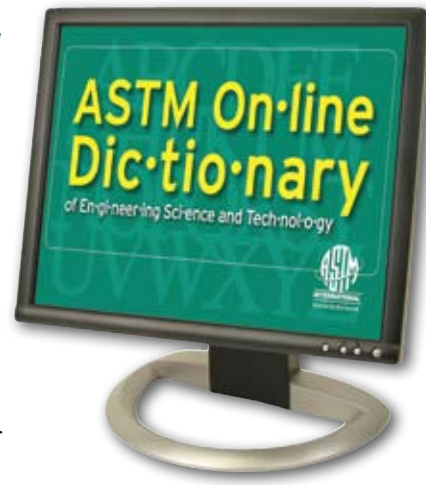
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- Determining the conditions warranting disclosure
- Measuring compliance with environmental performance standards against established benchmarks

These standards focus on air, water, waste prevention, waste management, and toxic reduction.

50 Pages (2008); Soft Cover: 8" x 11"; Price: \$85
ISBN: 978-0-8031-6248-8; Stock #: RISK08-C16



New!

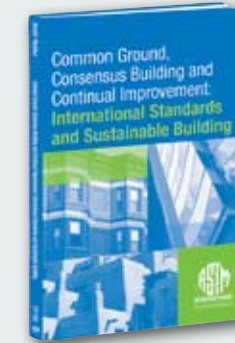
STP 1503

Common Ground, Consensus Building and Continual Improvement: International Standards and Sustainable Building

Editors: A.K. Bennett, D. Meadows

Sixteen peer-reviewed papers examine current and developing sustainable building and product standards for manufacturers, designers, retailers, the general public, and government regulators.

130 Pages (2008); Soft Cover: 6" x 9" Price: \$55
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1,200 Pages (2008); Soft Cover: 8.5" x 11"; Price: \$249
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580 Pages (2008); Soft Cover: 8.5" x 11"; Price: \$198
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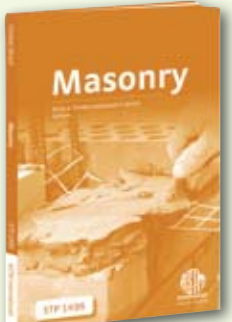
STP 1496

Masonry

Editor: B. E. Trimble, J. H. Brisch

Thirteen peer-reviewed papers cover glazed brick cladding, masonry beams, concrete masonry walls, brick masonry, and much more.

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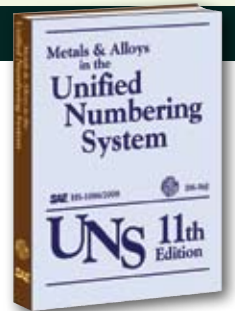
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500 Pages (2008); Soft Cover: 8.5" x 11"; Price: \$195
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- D 4310 Sludge Tendency
- D 2272 Oxidation Stability of Steam Turbine Oils by Rotating Pressure Vessel

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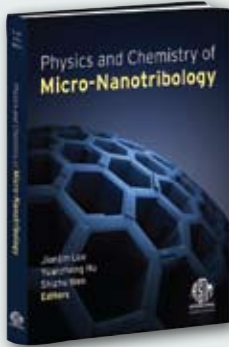
Monograph 7

Physics and Chemistry of Micro-Nanotribology

Editors: J. Luo, Y. Hu, S. Wen

This new ASTM monograph presents the principles and applications of tribology in micro-nano-scale and discusses some of the challenges faced by tribologists since the development of new manufacturing techniques for electronic products.

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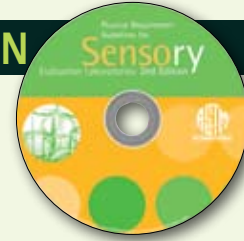
Physical Requirement Guidelines for Sensory Evaluation Laboratories: 2nd Edition

Editors: C. L. Kuesten, L. Kruse

Manual 60 provides the latest guidelines for sensory evaluation professionals who undertake the development of a new facility or remodeling of an existing laboratory.

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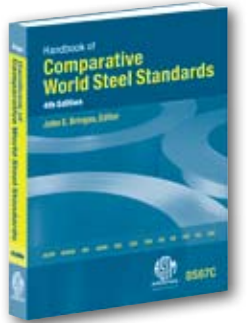
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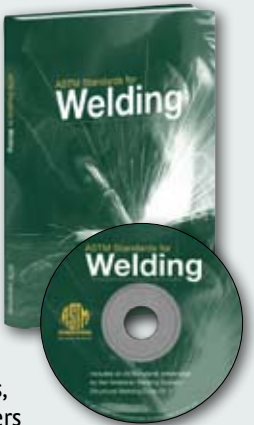
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Volume 01.01 features standards for various types of steel pipe that specify requirements for high-temperature service, ordinary use, and special applications, such as fire protection.

It includes specifications on steel tubes for boiler and superheater tubes, general service tubes, still tubes in refinery service, heat exchanger and condenser tubes, mechanical tubing, and structural tubing.

Steel casting specifications address standard properties for valves, flanges, fittings, and other pressure containing parts for high-temperature and low-temperature service. Others cover black, plain end steel pipe for use in the conveyance of fluids under pressure.

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Volume 01.02 includes standards that describe the property requirements of steel castings used for general applications, structural purposes, and high-temperature and low-temperature service. It also features alloy-casting specifications for castings made of nickel and chromium alloys.

Other standards detail the property and testing requirements for gray and white iron castings, cast iron pipe and fittings, and ductile iron castings.

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Volume 01.03 Steel—Plate, Sheet, Strip, Wire; Stainless Steel Bar

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Under the heading of steel plate, sheet, and strip, this volume covers specifications that stress mechanical property requirements and applications. The majority of them have been adopted by the Department of Defense. Also featured are specifications that detail the properties of assorted types of steel wire and industrial sizing screens.

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This volume features specifications that fix the requirements for various types of structural steel, such as high-strength, low-alloy, rolled steel floor plates, and carbon-silicon steel plates.

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 Online Basic: \$263; Stock #: V0201-C16
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Volume 02.01 includes standards on copper and copper alloy plate, sheet, strip, rolled bar, copper and copper alloy bars, detail the property requirements for seamless and welded tubes and pipe, rod, bar, and shapes. Some detail the property requirements for wire, including hard drawn copper, copper-silicon alloys, and phosphor bronze.

Volume 02.02 Aluminum and Magnesium Alloys

884 Pages; 87 Standards; Available Sept. 2009
 Print or CD: \$219
 Print ISBN: 978-0-8031-6297-6; Stock #: S020209-C16
 CD ISBN: 978-0-8031-6298-3; Stock #: CD020209-C16
 Online Basic: \$256; Stock #: V0202-C16
 Online+: \$298; Stock #: VX0202-C16

Volume 02.02 covers standards on aluminum, aluminum alloys, and aluminum-copper alloy castings, including bars, rods, wire, shapes, castings, forgings, fasteners, pipes, tubes, sheet, plates, foil, and cable. It also includes ANSI H35.2 American National Standard on Dimensional Specifications for Aluminum Mill Products. Other specifications in this volume cover aluminum, aluminum alloys, and aluminum-copper alloy castings, including bars, rods, wire, shapes, castings, forgings, fasteners, pipes, tubes, sheet, plates, foil, and cable. It also includes ANSI H35.2 American National Standard on Dimensional Specifications for Aluminum Mill Products.

Volume 02.03 Electrical Conductors

454 Pages; 80 Standards; Available May 2009
 Print or CD: \$154
 Print ISBN: 978-0-8031-6299-0; Stock #: S020309-C16
 CD ISBN: 978-0-8031-6300-7; Stock #: CD020309-C16
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Volume 02.03 focuses on electrical conductors, primarily aluminum, copper, copper-alloy, copper-covered steel, and steel wire. Various specifications define the required properties for these materials. Others detail the properties of aluminum-clad, copper-clad and bare steel wire, as well as guy, messengers, and span wires. Also included are standards on Superconductors.

Volume 02.03 focuses on electrical conductors, primarily aluminum,

Volume 02.04 Nonferrous Metals—Nickel, Cobalt, Lead, Tin, Zinc, Cadmium, Precious, Reactive, Refractory Metals and Alloys; Materials for Thermostats, Electrical Heating and Resistance Contacts, and Connectors

1,270 Pages; 261 Standards; Available June 2009
 Print or CD: \$265
 Print ISBN: 978-0-8031-6301-0; Stock #: S020409-C16
 CD ISBN: 978-0-8031-6302-7; Stock #: CD020409-C16
 Online Basic: \$318; Stock #: V0204-C16
 Online+: \$371; Stock #: VX0204-C16

Over half of the standards featured are specifications for nickel and nickel alloys which cover castings, forgings, pipe, tube, plate, sheet, strip, rod, bar, and wire. Also included are specifications for zinc and zinc alloys, cadmium, copper, gold, and more.

Procedures for measuring such properties as cross curvature and flexivity of thermostat materials and resistance of electrical contacts to atmospheric corrosion also appear in this volume.



Volume 02.05 Metallic and Inorganic Coatings; Metal Powders and Metal Powder Products

970 Pages; 193 Standards; Available May 2009
 Print or CD: \$230
 Print ISBN: 978-0-8031-6303-4
 Stock #: S020509-C16
 CD ISBN: 978-0-8031-6304-1
 Stock #: CD020509-C16
 Online Basic: \$276; Stock #: V0205-C16
 Online+: \$322; Stock #: VX0205-C16

Under the heading of metallic and inorganic coatings, specifications establish requirements for electrodeposited coatings of cadmium, tin, and mechanically-deposited zinc. This volume includes tests for measuring the properties of anodically-coated aluminum; determining coating thickness and corrosion; and electroforming, electroplating, and surface preparation.

Volume 02.05 features standards for metal powders and metal powder products. It includes test methods and specifications that deal with base metal powders, cemented carbides, refractory metal powders, density, flow rate, hardness, and particulate size. This volume also features standards for powder metallurgy (P/M) and metal injection molded (MIM) structural parts.

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Available in Print, CD-ROM, or ONLINE

Section 3: Metals Test Methods and Analytical Procedures

Metals—Mechanical Testing; Elevated and Low-Temperature Tests; Metallography

1,512 Pages; 127 Standards; Available July 2009
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Print ISBN: 978-0-8031-6307-2
Stock #: S030109-C16
CD ISBN: 978-0-8031-6308-9
Stock #: CD030109-C16
Online Basic: \$336; Stock #: V0301-C16
Online+: \$392; Stock #: VX0301-C16

Volume 03.01 covers tests and practices that outline the standard procedures needed to perform mechanical testing. This includes machine calibration, bend and flexure testing, compression, ductility, formability, elastic properties, impact, linear thermal expansion, shear, torsion, residual stress, tension testing, structural films for MEMS, and electronic applications.

Other standards cover fatigue and fracture testing of materials, including crack tip opening displacement (CTOD), fracture toughness measurement, and linear elastic plane-strain fracture toughness of metallic materials.

Also featured are metallography tests and practices that define standard optical, electron, and X-ray procedures for determining the constituents and structure of metals and alloys.

**Volume 03.02
Corrosion of Metals;
Wear and Erosion**

924 Pages; 117 Standards; Available Aug. 2009
Print or CD: \$199
Print ISBN: 978-0-8031-6309-6
Stock #: S030209-C16
CD ISBN: 978-0-8031-6310-2
Stock #: CD030209-C16
Online Basic: \$239; Stock #: V0302-C16
Online+: \$279; Stock #: VX0302-C16

Tests, practices, and guides detail standard procedures, which measure atmospheric corrosion, stress corrosion cracking, corrosion fatigue, corrosion in natural waters and soil, and in-plant corrosion.

This volume also includes tests and practices on how to assess wear and erosion of materials and structures.

**Volume 03.03
Nondestructive Testing**

1,440 Pages; 180 Standards; Available Oct. 2009
Print or CD: \$283
Print ISBN: 978-0-8031-6311-9
Stock #: S030309-C16
CD ISBN: 978-0-8031-6312-6
Stock #: CD030309-C16
Online Basic: \$340; Stock #: V0303-C16
Online+: \$396; Stock #: VX0303-C16

Provides the latest standards on nondestructive testing (NDT) of engineering materials, structures, and assemblies to detect flaws and characterize the properties of materials. NDT methods cover:

Reference Radiological Images—reference radiograph standards, which when accompanied by ASTM's standard radiograph plates, are used to illustrate the type and degree of discontinuities that may be found in castings and welds. Others detail the procedures required for proper radiographic examination.

Radiology (Neutron, X, and Gamma)—test methods and practices cover topics such as calibration and measurement of CT density, radioscopic examination of weldments, and quality control of industrial radiographic film processing.

Digital Imaging—practices and guides cover digital imaging and communication in nondestructive evaluation (DICONDE), including computerized transfer of digital radiological and ultrasonic examination data.

Magnetic Particle and Liquid Penetrant Examination—test methods, practices, and reference photographs examine minimum requirements and various techniques.

Acoustic Emission—standard procedures for operating acoustic emission sensors and monitoring structures.

Ultrasonic—practices for performing ultrasonic examination of tubing, weldments, and other materials.

Electromagnetic—procedures for electromagnetic (eddy current) examination of ferrous and nonferrous metals, and in particular, various tubular products.

Leak Testing—practices and tests establish procedures for leak testing of open and sealed units.

Other standards in this volume cover infrared methods, nondestructive testing agencies, metals sorting, and identification.

**Volume 03.04
Magnetic Properties**

344 Pages; 50 Standards; Available April 2009
Print or CD: \$105
Print ISBN: 978-0-8031-6313-3
Stock #: S030409-C16
CD ISBN: 978-0-8031-6314-0
Stock #: CD030409-C16
Online Basic: \$126; Stock #: V0304-C16
Online+: \$147; Stock #: VX0304-C16

Under the heading of magnetic properties and materials, this volume contains standards on property requirements and measurement techniques for magnetic materials, primarily electrical steel. It includes tests for determining alternating current and direct current properties.

**Volume 03.05
Analytical Chemistry for
Metals, Ores, and Related
Materials: E 32—Latest**

1,150 Pages; 130 Standards; Available Oct. 2009
Print or CD: \$292
Print ISBN: 978-0-8031-6315-7
Stock #: S030509-C16
CD ISBN: 978-0-8031-6316-4
Stock #: CD030509-C16
Online Basic: \$350; Stock #: V0305-C16
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Volume 03.05 includes procedures for obtaining and reporting chemical analyses of ferrous and nonferrous metals, metal-bearing ores, and refractories. Standards also cover analytical equipment, practices for conducting proficiency tests and reporting statistical test results.

**Volume 03.06
Molecular Spectroscopy;
Surface Analysis**

870 Pages; 93 Standards; Available Oct. 2009
Print or CD: \$168
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Stock #: S030609-C16
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Stock #: CD030609-C16
Online Basic: \$202; Stock #: V0306-C16
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This volume covers molecular spectroscopy and includes standards pertaining to chromatography, fiber optics and waveguides, infrared spectroscopy, molecular luminescence, and ultra-violet and visible spectroscopy.

It also includes procedures for surface analysis and examines auger electron spectroscopy, X-ray photoelectron spectroscopy, ion beam sputtering, and secondary ion mass spectroscopy (SIMS).

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Section 4: Construction

Volume 04.01**Cement; Lime; Gypsum**

742 Pages; 129 Standards; Available Sept. 2009
Print or CD: \$190
Print ISBN: 978-0-8031-6321-8; Stock #: S040109-C16
CD ISBN: 978-0-8031-6322-5; Stock #: CD040109-C16
Online Basic: \$228; Stock #: V0401-C16
Online+: \$266; Stock #: VX0401-C16

Volume 04.01 features specifications and test methods that establish the property requirements and measurement procedures for hydraulic cements, including portland, natural, pozzolanic, masonry, and slag.

It includes standards that define the appropriate qualities of lime and limestone and how to analyze them for environmental and industrial uses.

The remaining standards in this volume address gypsum and related building materials and systems, including application procedures and related accessories, including exterior insulation and finishing systems (EIFS).

ASTM's *Manual of Cement Testing*, a valuable companion to these standards, also appears in this volume.

Volume 04.02**Concrete and Aggregates**

966 Pages; 170 Standards; Available Oct. 2009
Print or CD: \$213
Print ISBN: 978-0-8031-6323-2; Stock #: S040209-C16
CD ISBN: 978-0-8031-6324-9; Stock #: CD040209-C16
Online Basic: \$256; Stock #: V0402-C16
Online+: \$298; Stock #: VX0402-C16

This volume includes test methods, specifications, and practices on concrete and concrete aggregates, curing materials, grout, and expansion joint fillers. These standards address abrasion testing, fluid penetration, chemical admixtures and reactions, concrete for radiation shielding, evaluation of data and laboratories, NDT, in-place testing, petrography, self-consolidating concrete, and more.

It also includes the *ASTM Manual of Aggregate and Concrete Testing*.

Volume 04.03**Road and Paving Materials;
Vehicle-Pavement Systems**

1,562 Pages; 267 Standards; Available June 2009
Print or CD: \$272
Print ISBN: 978-0-8031-6325-6; Stock #: S040309-C16
CD ISBN: 978-0-8031-6326-3; Stock #: CD040309-C16
Online Basic: \$326; Stock #: V0403-C16
Online+: \$381; Stock #: VX0403-C16

Specifications, tests, and practices examine the properties of various road and paving materials and explain how to measure their characteristics.

These standards address aggregates, bituminous mixtures, bridges, bridge decks, and structures. They also cover highway traffic materials, such as retroreflective sheeting and pavement markers.

Volume 04.03 also covers vehicle-pavement systems, including field methods for measurement of tire pavement friction, measurement and control of roughness in construction and rehabilitation of pavements, surface characteristics related to tire pavement slip resistance, tire and slider characteristics, traffic monitoring, and vehicle roadside communication.

Volume 04.04**Roofing and Waterproofing**

688 Pages; 166 Standards; Available June 2009
Print or CD: \$160
Print ISBN: 978-0-8031-6327-0; Stock #: S040409-C16
CD ISBN: 978-0-8031-6328-7; Stock #: CD040409-C16
Online Basic: \$192; Stock #: V0404-C16
Online+: \$224; Stock #: VX0404-C16

Specifications, test methods, and practices focus on roofing and waterproofing materials such as asphalt roof coatings, single-ply membranes, underlayments, roll, sheeting, and EPDM roofing materials. Standards also cover bituminous emulsions; felts and fabrics; nonbituminous organic roof coverings; prepared roofings, shingles, and siding materials; roofing membrane systems; solvent-bearing bituminous compounds; surfacing and bituminous materials for membrane waterproofing; and more.

Volume 04.05**Chemical-Resistant Nonmetallic
Materials; Vitrified Clay Pipe;
Concrete Pipe; Fiber-Reinforced
Cement Products; Mortars
and Grouts; Masonry; Precast
Concrete**

1,456 Pages; 281 Standards; Available June 2009
Print or CD: \$266
Print ISBN: 978-0-8031-6329-4
Stock #: S040509-C16
CD ISBN: 978-0-8031-6330-0; Stock #: CD040509-C16
Online Basic: \$319; Stock #: V0405-C16
Online+: \$372; Stock #: VX0405-C16

Under the heading of chemical-resistant nonmetallic materials, this volume provides specifications, tests, and practices for measuring the properties of mortars, grouts, and monolithic surfacing.

Also included are standards on mortar and grout for masonry construction and manufactured masonry units. Volume 04.05 also features specifications for concrete pipe, joints, manholes, vitrified clay pipe, clay drain tile, fiber-cement products, and precast concrete products.

Volume 04.06**Thermal Insulation; Building and
Environmental Acoustics**

1,328 Pages; 202 Standards; Available Nov. 2009
Print or CD: \$306
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CD ISBN: 978-0-8031-6332-4
Stock #: CD040609-C16
Online Basic: \$367; Stock #: V0406-C16
Online+: \$428; Stock #: VX0406-C16

Volume 04.06 features specifications that establish the property requirements for various types of insulation, including blanket, block, board, loose fill, cement, and pipe.

Standards on environmental acoustics address community noise, acoustical materials and systems, mechanical and electrical system noise, open plan spaces, sound absorption, and sound transmission.

Volume 04.07**Building Seals and Sealants; Fire
Standards; Dimension Stone**

1,462 Pages; 171 Standards; Available Nov. 2009
Print or CD: \$270
Print ISBN: 978-0-8031-6333-1
Stock #: S040709-C16
CD ISBN: 978-0-8031-6334-8
Stock #: CD040709-C16
Online Basic: \$324; Stock #: V0407-C16
Online+: \$378; Stock #: VX0407-C16

Specifications, tests, and practices detail the property requirements for caulking and glazing compounds; structural, emulsion, hot-applied, and solvent-release sealants; lock-strip gaskets; aerosol foam sealants; pipe gaskets; sealing tapes; and other building sealants. Also featured are standards on how to measure sealant properties.

It includes test methods on the combustibility and fire resistance of various materials, including building construction materials, mattresses, and upholstered furniture. Other standards cover fire safety engineering and large-scale fire tests under controlled conditions.

Volume 04.07 also includes standards on dimension stone, including dimension stone anchoring systems and selection of dimension stone for exterior use.

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Volume 04.08**Soil and Rock (I):
D 420—D 5876**

1,840 Pages; 222 Standards
Available March 2009
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Print ISBN: 978-0-8031-6335-5
Stock #: S040809-C16
CD ISBN: 978-0-8031-6336-2
Stock #: CD040809-C16
Online Basic: \$368; Stock #: V0408-C16
Online+: \$430; Stock #: VX0408-C16

Volume 04.09**Soil and Rock (II):
D 5877—Latest**

1,516 Pages; 155 Standards
Available April 2009
Print or CD: \$276
Print ISBN: 978-0-8031-6337-9
Stock #: S040909-C16
CD ISBN: 978-0-8031-6338-6
Stock #: CD040909-C16
Online Basic: \$331; Stock #: V0409-C16
Online+: \$386; Stock #: VX0409-C16

Combined, Volumes 04.08 and 04.09 feature over 375 geotechnical and geoenvironmental standards that cover soil testing, including compaction, sampling, field investigation, cyclic and dynamic properties, soil texture, plasticity, density characteristics, hydrological properties, hydraulic barriers, and rock for erosion control. Other standards focus on ground water and vadose zone investigations, how to measure the properties of soil-cement, and tests for peats, mosses, and humus.

In addition, Volume 04.09 also includes standards on surface and subsurface characterization, erosion and sediment control technology, frozen soils and rock, geotechnics of waste management, and information retrieval and data automation.

Volume 04.10
Wood

808 Pages; 125 Standards
Available July 2009
Print or CD: \$199
Print ISBN: 978-0-8031-6339-3
Stock #: S041009-C16
CD ISBN: 978-0-8031-6340-9
Stock #: CD041009-C16
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Test methods feature how to perform chemical analysis of wood and how to evaluate mechanical and physical properties. Others detail structural grading, wood paving blocks, and modified wood.

Under the heading of wood preservatives, this volume covers chemically analyzing preservatives and evaluating their physical properties.

Volume 04.11
Building Constructions (I): E 72—E 1670

1,112 Pages; 110 Standards
Available Nov. 2009
Print or CD: \$243
Print ISBN: 978-0-8031-6341-6
Stock #: S041109-C16
CD ISBN: 978-0-8031-6342-3
Stock #: CD041109-C16
Online Basic: \$292; Stock #: V0411-C16
Online+: \$340; Stock #: VX0411-C16

Volume 04.12
**Building Constructions (II): E 1671—Latest;
Property Management Systems; Technology and Underground Utilities**

1,734 Pages; 194 Standards
Available Nov. 2009
Print or CD: \$271
Print ISBN: 978-0-8031-6343-0
Stock #: S041209-C16
CD ISBN: 978-0-8031-6344-7
Stock #: CD041209-C16
Online Basic: \$325; Stock #: V0412-C16
Online+: \$379; Stock #: VX0412-C16

Volumes 04.11 and 04.12 cover standard procedures for measuring the performance of buildings, including: air leakage and ventilation performance; building economics; building preservation; durability performance of building performance of building constructions; structural performance; exterior insulation and finish systems; lead hazards associated with buildings; and performance of roof systems, windows, and doors.

Volume 04.12 includes standards that provide any entity, private or public, with the means to design and implement an efficient and cost-effective personal property/equipment management system. These standards encompass the entire life cycle of personal property; property management definitions and terms; establishing the guiding principles of property management; administrative control of property; physical inventory; valuation of inventory results; asset utility; use and disposal; assessment of loss, damage, and destruction; the recognition of impaired or retired personal property; and the life-cycle costing of property assets.

In addition, applying the equipment management maturity model provides an excellent measure of the success and value of a system.

Training and career development for property managers are also covered.

Finally, this volume covers standards on technology and underground utilities. These standards include rehabilitation of sewers using chemical grouting techniques; seismic fragility of water conveyance systems; deployment of optical fiber systems in natural gas pipelines; and water line rehabilitation.

Volume 04.13
Geosynthetics

664 Pages; 128 Standards
Available May 2009
Print or CD: \$156
Print ISBN: 978-0-8031-6345-4
Stock #: S041309-C16
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Volume 04.13 focuses on the mechanical, endurance, permeability, and filtration properties of geosynthetics. Applications such as roadway stabilization and repair, erosion control, geomembranes, soil drainage, and reinforcement, as well as hydraulic barriers composed primarily of man-made polymer sheets or spray applied systems are included. Also featured are standards on geosynthetic clay liners.

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Volume 05.01

**Section 5:
Petroleum Products,
Lubricants, and Fossil Fuels****Petroleum Products and Lubricants (I):
D 56—D 3348**

1,630 Pages; 230 Standards
Available Feb. 2009
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Stock #: CD050109-C16
Online Basic: \$418; Stock #: V0501-C16
Online+: \$487; Stock #: VX0501-C16

Volume 05.02
**Petroleum Products and Lubricants (II):
D 3427—D 5763**

1,524 Pages; 205 Standards
Available March 2009
Print or CD: \$310
Print ISBN: 978-0-8031-6351-5
Stock #: S050209-C16
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Volume 05.03
**Petroleum Products and Lubricants (III):
D 5769—D 6729**

1,582 Pages; 130 Standards
Available March 2009
Print or CD: \$321
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Online Basic: \$385; Stock #: V0503-C16
Online+: \$449; Stock #: VX0503-C16

Volume 05.04
**Petroleum Products and Lubricants (IV):
D 6730—latest**

1,662 Pages; 127 Standards
Available March 2009
Print or CD: \$369
Print ISBN: 978-0-8031-6355-3
Stock #: S050409-C16
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These 4 volumes provide 690 standards, including specifications and test methods for fuels, oils, lubricants, and solvents. They address alternative diesel fuels and diesel fuel blend components, including biodiesel.

These volumes also feature standard procedures for evaluating the properties of motor, diesel, automotive spark-ignition engine fuel, ethanol, aviation fuels, solvent hexane, and naphtha.

Standards cover distillate and residual fuel oil, kerosine, and illuminating oils, and set down procedures for evaluating such properties as carbon residue, viscosity, cloud point, density, flash point, and sulfur content. Other subjects include natural and liquefied petroleum, pure light hydrocarbons, crude petroleum, wax and petrolatum, and hydraulic fluids.

Tests and practices for evaluating the properties of film lubricants, lubricating greases, lubricating oil, used oils, cutting oils, and turbine oils also appear in these volumes.

Volume 05.05
Combustion Characteristics; Manufactured Carbon and Graphite Products; Catalysts

628 Pages; 75 Standards; Available Feb. 2009
Print or CD: \$167
Print ISBN: 978-0-8031-6357-7
Stock #: S050509-C16
CD ISBN: 978-0-8031-6358-4
Stock #: CD050509-C16
Online Basic: \$200; Stock #: V0505-C16
Online+: \$234; Stock #: VX0505-C16

This volume covers test methods to determine the knocking or detonation characteristics of motor and aviation fuels and the ignition characteristics of diesel fuels. Some tests evaluate catalytic materials, while others feature standard tests and practices for performing chemical and physical tests on manufactured carbon and graphite products.

Volume 05.06
Gaseous Fuels; Coal and Coke

742 Pages; 115 Standards; Available Sept. 2009
Print or CD: \$185
Print ISBN: 978-0-8031-6359-1
Stock #: S050609-C16
CD ISBN: 978-0-8031-6360-7
Stock #: CD050609-C16
Online Basic: \$222; Stock #: V0506-C16
Online+: \$259; Stock #: VX0506-C16

Under the heading of gaseous fuels, this volume provides tables and practices for sampling and calculating thermophysical properties. In addition, several tests define methods for analyzing the properties of gaseous fuels. Other tests and practices evaluate properties of coal and coke.

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Section 6: Paints, Related Coatings, and Aromatics**Volume 06.01**
Paint—Tests for Chemical, Physical, and Optical Properties; Appearance

1,456 Pages; 253 Standards; Available Feb. 2009
Print or CD: \$278
Print ISBN: 978-0-8031-6363-8; Stock #: S060109-C16
CD ISBN: 978-0-8031-6364-5; Stock #: CD060109-C16
Online Basic: \$334; Stock #: V0601-C16
Online+: \$389; Stock #: VX0601-C16

This volume features the latest test methods for the chemical analysis of paints and paint materials, including determination of volatiles, nonvolatiles, pigments, water content, and other constituents. Other standards focus on accelerated testing, physical properties of applied paint films, such as film thickness and adherence, physical strength, resistance to chemicals and environmental factors, as well as the physical and optical properties of liquid paints.

In addition, Volume 06.01 includes tests and practices on color and appearance analysis, color order systems, fluorescence, high visibility materials for individual safety, image based color measurement, photoluminescent safety markings, retroreflective materials, spectrophotometry and colorimetry, and visual methods.

Volume 06.02
Paint—Products and Applications; Protective Coatings; Pipeline Coatings

1,230 Pages; 249 Standards; Available Feb. 2009
Print or CD: \$244
Print ISBN: 978-0-8031-6365-2; Stock #: S060209-C16
CD ISBN: 978-0-8031-6366-9; Stock #: CD060209-C16
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Volume 06.02 covers architectural finishes and paint products, such as traffic coatings, marine coatings, industrial protective coatings, and masonry treatments. Standards examine paint applications in factories, coil coat metal, coatings on preformed products, printing inks, artists' paints, and paint application tools. Other subject areas include the determination of graffiti resistance and definitions for problems that develop with printed matter as a result of deficiencies in ink, substrate, or press.

Tests for applying and evaluating protective coatings and linings in power generation facilities, and standards on the durability of pipeline coatings and linings also appear in this volume.

Volume 06.03
Paint—Pigments, Drying Oils, Polymers, Resins, Naval Stores, Cellulosic Esters, and Ink Vehicles

752 Pages; 144 Standards; Available March 2009
Print or CD: \$223
Print ISBN: 978-0-8031-6367-6; Stock #: S060309-C16
CD ISBN: 978-0-8031-6368-3; Stock #: CD060309-C16
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Volume 06.03 includes specifications and test methods that establish property requirements for various pigments, including white, black, bronze, blue, and red; drying oils; resins; and polymers.

Other standards pertain to naval stores, primarily rosins, cellulose and cellulose derivatives, and ink vehicles, and hydrocarbon resins.

Volume 06.04
Paint—Solvents; Aromatic Hydrocarbons

762 Pages; 173 Standards; Available March 2009
Print or CD: \$186
Print ISBN: 978-0-8031-6369-0; Stock #: S060409-C16
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This volume features specifications that establish the standard property requirements for various solvents, including aromatic hydrocarbons, alcohols, ketones, and esters. Accompanying the specifications are tests that define standard procedures for conducting physical and chemical tests on solvents and for determining solubility and miscibility. Others cover aromatic hydrocarbons and related chemicals, excluding those used as fuels or lubricants.

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Section 7: Textiles

Volume 07.01

Textiles (I): D 76—D 4391

1,070 Pages; 186 Standards; Available Nov. 2009
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Online+: \$360; Stock #: VX0701-C16

Volume 07.02

Textiles (II): D 4393—Latest

1,026 Pages; 160 Standards; Available Nov. 2009
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Volumes 07.01 and 07.02 feature over 346 textile-related standards covering the characteristics, properties, nomenclature, and uses of textiles. These tests, practices, and specifications cover:

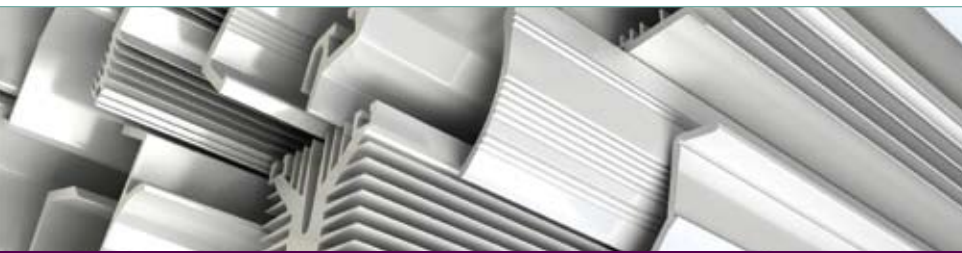
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- Care labeling
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- Glass fiber
- Home furnishings
- Inflatable restraints
- Non-woven fabric
- Pile floor coverings
- Subassemblies, such as zippers, hooks, and loops
- Tire cord and fabrics

Volume 07.02 also contains standard body measurement charts used for the sizing of apparel for men, women, children, and infants; standard guidelines for care labeling of apparel and other textile products; standards for UV protective fabrics and clothing; and a practice for stitches and seams, which has replaced the Federal standard for apparel end item stitch and seam structures used worldwide by government and industry textile organizations.

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Section 8: Plastics

Volume 08.01

Plastics (I): D 256—D 3159

930 Pages; 137 Standards; Available June 2009
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Volume 08.02

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Volume 08.03

Plastics (III): D 5117—Latest

990 Pages; 153 Standards; Available July 2009
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They also cover environmentally degradable plastics, compostable plastics, biobased products, plastic building products, recycled plastics, and plastic lumber.

Volume 08.04

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1,816 Pages; 258 Standards; Available Jan. 2009
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Volume 09.02

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Volume 09.02 features specifications, tests, and practices for evaluating rubber surgical and examination gloves, automotive and aeronautical rubber, packing, seals, gasket materials, hose and belting, coated fabrics, latex foam, sponge, expanded cellular rubber, and tires.

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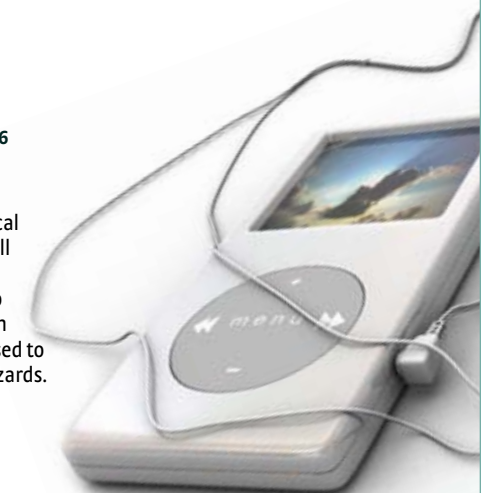
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Volume 11.04

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Volume 14.02

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962 Pages; 262 Standards; Available Sept. 2009

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768 Pages; 158 Standards; Available Aug. 2009

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1,024 Pages; 185 Standards; Available Nov. 2009

Print or CD: \$218

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Please Note: All standards on livestock, meat, and poultry evaluation systems, as well as food service equipment have moved from Volume 15.08 to new 2009 Volume 15.12.

Volume 15.08**Sensory Evaluation; Vacuum Cleaners; Security Systems and Equipment; Detention and Correctional Facilities; Homeland Security Applications**

1,060 Pages; 116 Standards; Available Nov. 2009

Print or CD: \$191

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Homeland Security Applications—standards address CBRNE sensors and detectors, emergency preparedness, training procedures, decontamination, personal protective equipment, building and infrastructure protection, security controls, risk assessment, and terminology.**Sensory Evaluation**—tests and guides establish standard procedures for controlling and evaluating the characteristics of products, including food, beverages, personal care products, and household items. Standards also cover general sensory applications and sensory theory and statistics.**Vacuum Cleaners**—tests evaluate filtration efficiency, air performance characteristics, cleanability, durability, and reliability.**Security Systems and Equipment**—standards focus on protective design of buildings, including blast and forced entry resistant glazing, blast resistant doors, vehicle crash testing of perimeter barriers, and boat barrier perimeters. Test methods and practices also cover controlled access security screening equipment, as well as locking devices.**Detention and Correctional Facilities**—covers security control systems; detention hardware, including hinges and locks; furnishings; and physical barriers, including swinging door assemblies and chain link barrier systems.

Volume 15.09
Paper; Business Imaging Products
 782 Pages; 173 Standards; Available June 2009
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Volume 15.09 covers:
Paper—specifications establish standard property requirements for paper and paper products; and tests for measuring bursting strength, folding endurance, moisture content, and tear resistance of paperboard and packaging material.
Business Imaging Products—test methods and practices deal with carbonless, thermal, electrostatic, ink jet, and inked transfer imaging products.

Volume 15.10
Packaging; Flexible Barrier Packaging
 1,094 Pages; 194 Standards; Available June 2009
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Volume 15.11
Consumer Products, Light Sports Aircraft; Unmanned Aircraft Systems; Normal and Utility Category Airplane Electrical Wiring Systems; Unmanned Maritime Vehicle Systems (UMVS)
 1,348 Pages; 149 Standards; Available Nov. 2009
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Unmanned Aircraft Systems—covers terminology, as well as the design and performance of airborne sense-and-avoid systems. This includes requirements to support detection of, and safe separation from, airborne objects such as manned or unmanned aircraft and air vehicles.
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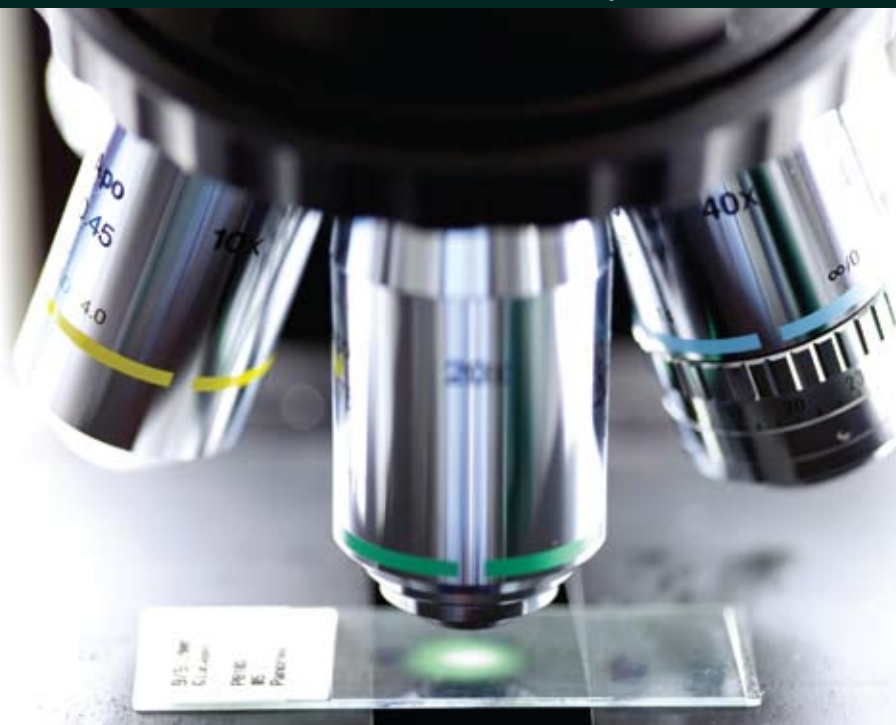
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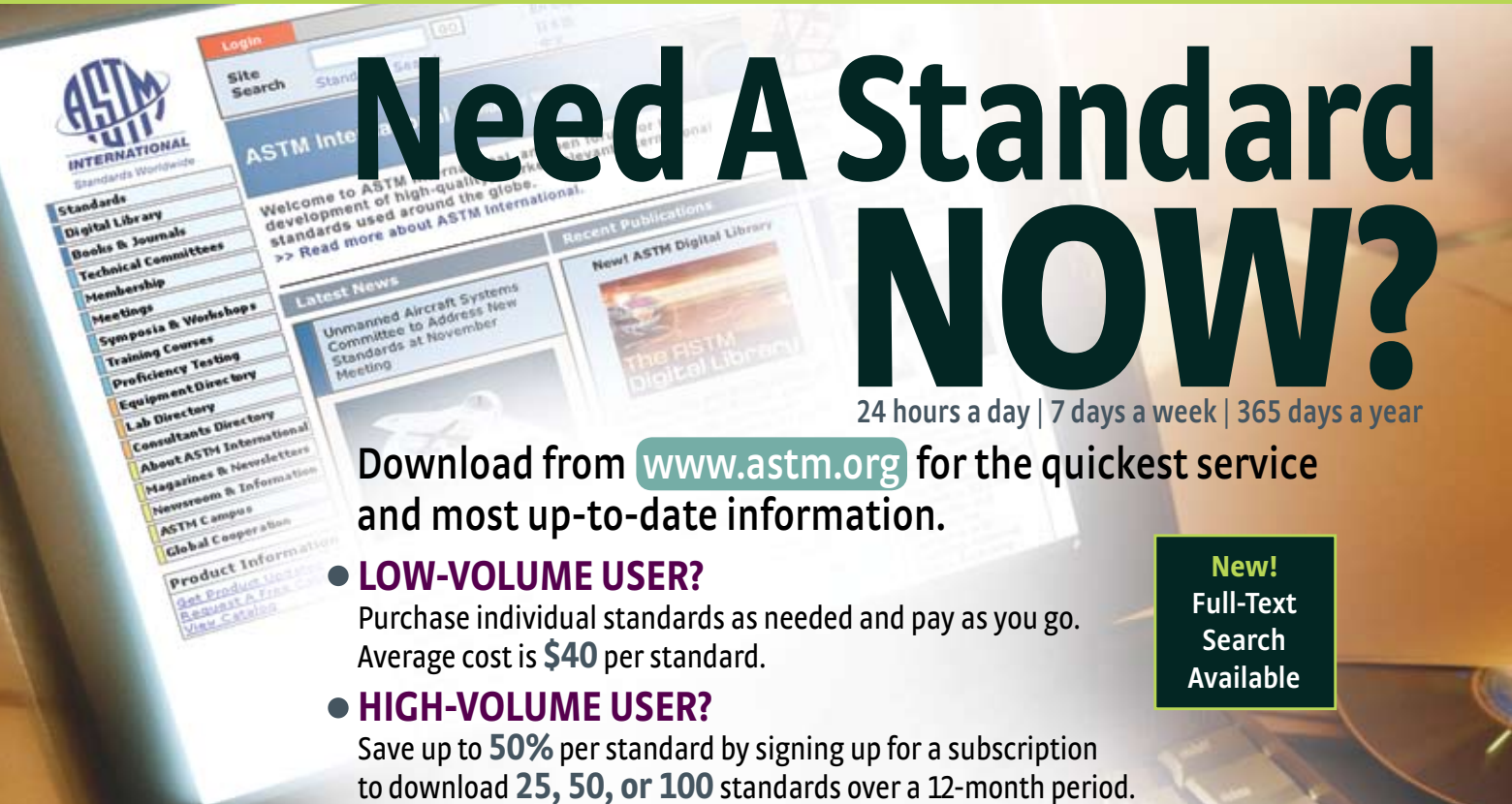
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