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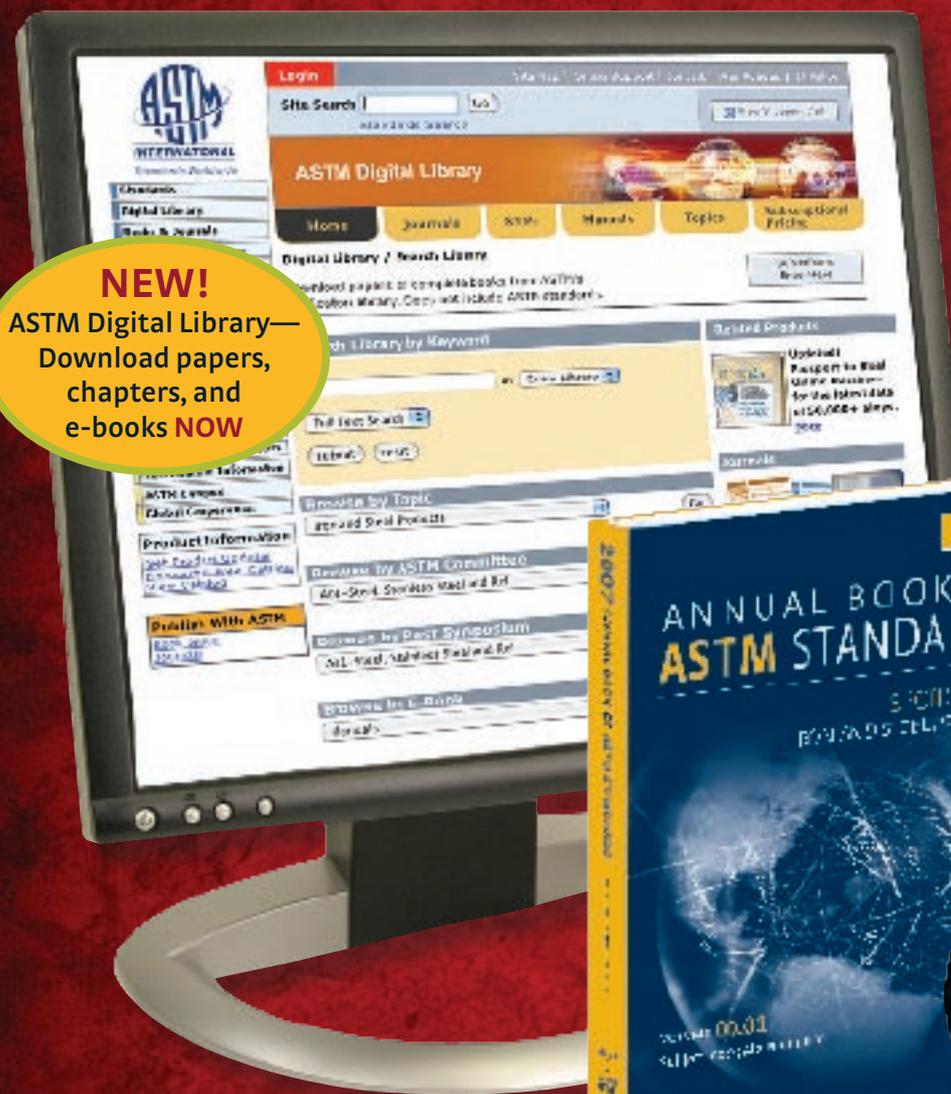
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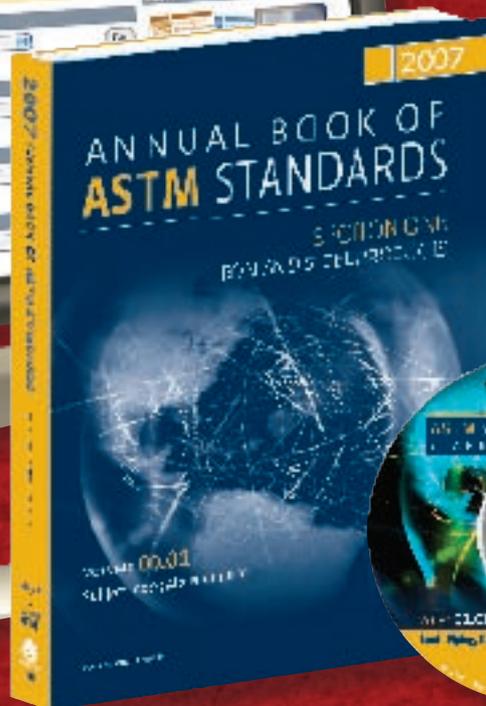
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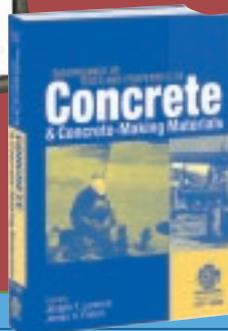
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For over a century, ASTM standards have been used worldwide to improve quality, safety, and design. Developed by more than 30,000 experts from over 100 countries, ASTM's 12,000 standards cover nearly 140 industries, including steel, petroleum, building construction, plastics, textiles, and the environment. Recent activities address the latest information on Phase I ESAs, declarable substances in materials, nanotechnology, and homeland security applications.

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01.01	Steel—Piping, Tubing, Fittings	\$222	Jan	\$266	\$311	6
01.02	Ferrous Castings; Ferroalloys	\$185	Jan	\$222	\$259	6
01.03	Steel—Plate, Sheet, Strip, Wire; Stainless Steel Bar	\$187	Feb	\$224	\$262	6
01.04	Steel—Structural, Reinforcing, Pressure Vessel, Railway	\$177	Jan	\$212	\$248	6
01.05	Steel—Bars, Forgings, Bearing, Chain, Springs	\$194	Jan	\$233	\$272	6
01.06	Coated Steel Products	\$191	Feb	\$229	\$267	6
01.07	Ships and Marine Technology	\$307	Jan	\$368	\$430	6
01.08	Fasteners; Rolling Element Bearings	\$183	Jan	\$220	\$256	6
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02.02	Aluminum and Magnesium Alloys	\$199	Sept	\$239	\$279	6
02.03	Electrical Conductors	\$125	May	\$150	\$175	6
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	\$248	June	\$298	\$347	6
02.05	Metallic and Inorganic Coatings; Metal Powders and Metal Powder Products	\$215	May	\$258	\$301	7
SPECIAL PRICE FOR SECTION 2 (Volumes 02.01–02.05) 761 Standards • Print or CDs: \$744 • Online Basic: \$893 • Online+: \$1,042 (must be prepaid; price reflects discount)						
SECTION 3—METALS TEST METHODS and ANALYTICAL PROCEDURES						
03.01	Metals—Mechanical Testing; Elevated Temperature Tests; Metallography	\$261	July	\$313	\$365	7
03.02	Corrosion of Metals; Wear and Erosion	\$185	Aug	\$222	\$259	7
03.03	Nondestructive Testing	\$264	Oct	\$317	\$370	7
03.04	Magnetic Properties	\$98	April	\$118	\$137	7
03.05	Analytical Chemistry for Metals, Ores, and Related Materials (I): E 32-latest	\$273	Oct	\$328	\$382	7
03.06	Molecular Spectroscopy; Surface Analysis	\$157	Oct	\$188	\$220	7
SPECIAL PRICE FOR SECTION 3 (Volumes 03.01–03.06) 783 Standards • Print or CDs: \$929 • Online Basic: \$1,114 • Online+: \$1,300 (must be prepaid; price reflects discount)						

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04.01	Cement; Lime; Gypsum	\$178	Sept	\$214	\$249	8
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04.03	Road and Paving Materials; Vehicle—Pavement Systems	\$254	June	\$305	\$356	8
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04.06	Thermal Insulation; Environmental Acoustics	\$285	Nov	\$342	\$399	8
04.07	Building Seals and Sealants; Fire Standards; Dimension Stone	\$252	Nov	\$302	\$353	8
04.08	Soil and Rock (I): D 420–D 5611	\$246	Mar	\$295	\$344	8
04.09	Soil and Rock (II): D 5714–latest	\$276	April	\$331	\$386	8
04.10	Wood	\$185	July	\$222	\$259	8
04.11	Building Constructions (I): E 72–E 1670	\$227	Nov	\$272	\$318	8
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05.02	Petroleum Products and Lubricants (II): D 3231-D 5293	\$278	Mar	\$334	\$389	9
05.03	Petroleum Products and Lubricants (III): D 5303-D 6553	\$299	Mar	\$359	\$419	9
05.04	Petroleum Products and Lubricants (IV): D 6557-latest	\$330	Mar	\$396	\$462	9
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Section 3: Metals Test Methods and Analytical Procedures

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METALS—MECHANICAL TESTING; ELEVATED and LOW-TEMPERATURE TESTS; METALLOGRAPHY
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Volume 03.04
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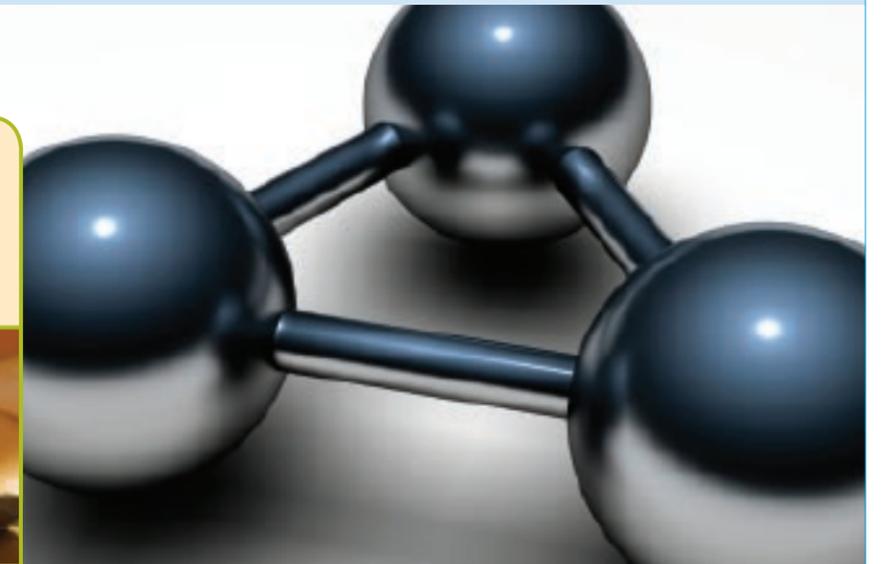
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ANALYTICAL CHEMISTRY for METALS, ORES, and RELATED MATERIALS: E 32 – LATEST
 1,160 Pages; 133 Standards; Available Oct. 2007
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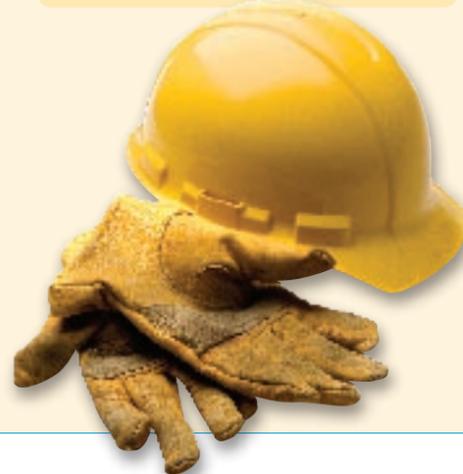
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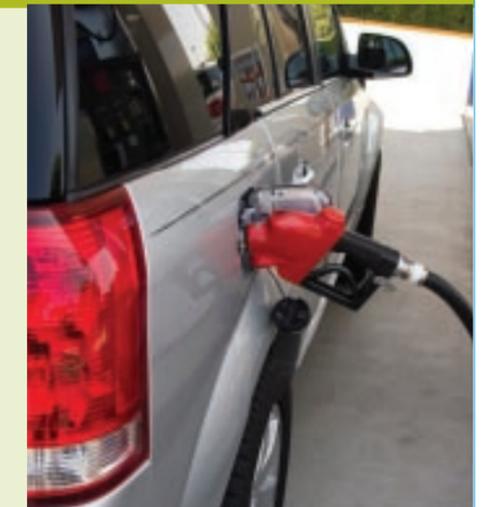
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Section 10: Electrical Insulation and Electronics

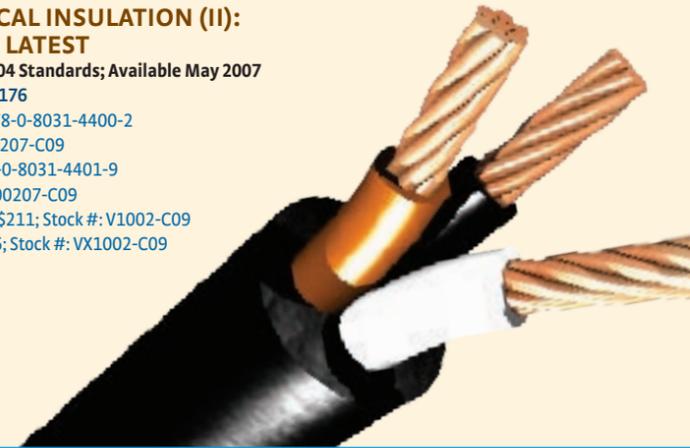
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ELECTRICAL INSULATION (I): D 69 – D 2484
634 Pages; 70 Standards; Available May 2007
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Stock #: S100107-C09
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756 Pages; 135 Standards; Available April 2007
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722 Pages; 104 Standards; Available May 2007
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Online Basic: \$622; Stock #: V10CS-C09
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Section 8: Plastics

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Online Basic: \$245; Stock #: V0803-C09
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Online Basic: \$298; Stock #: V0901-C09
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Volume 09.02
RUBBER PRODUCTS, INDUSTRIAL—SPECIFICATIONS and RELATED TEST METHODS; GASKETS; TIRES
670 Pages; 113 Standards; Available Aug. 2007
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Print ISBN: 978-0-8031-4394-4
Stock #: S090207-C09
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Please note: All D22 standards on Atmospheric Analysis have been moved from Volume 11.03 to New Volume 11.07!

Volume 11.03
OCCUPATIONAL HEALTH and SAFETY; PROTECTIVE CLOTHING
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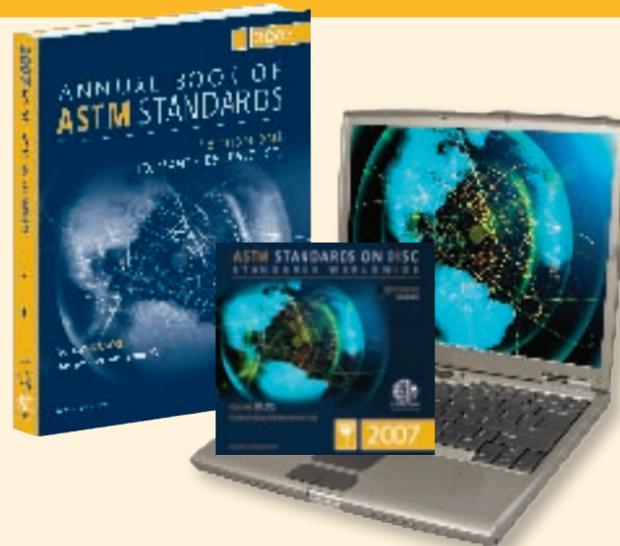


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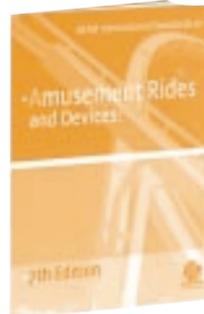
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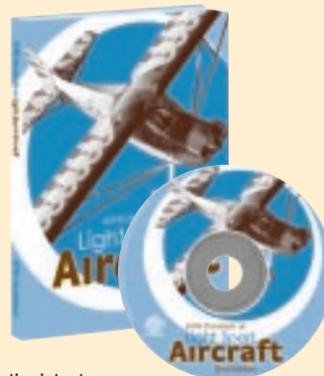
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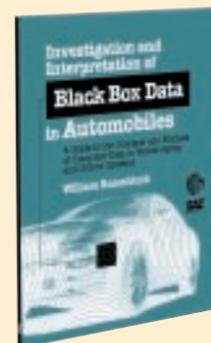
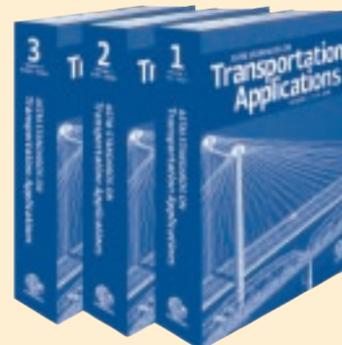
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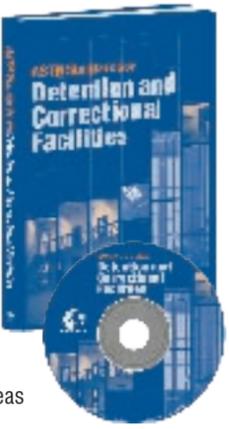
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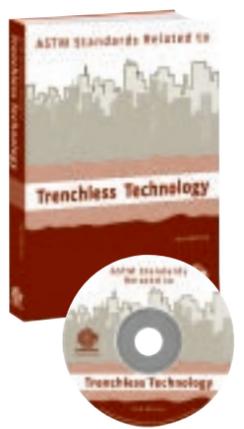
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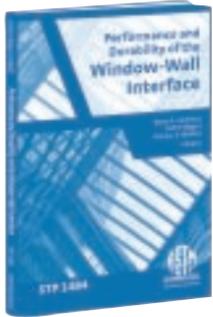


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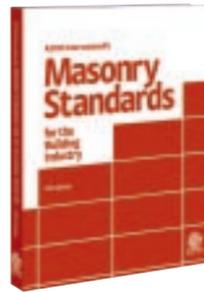
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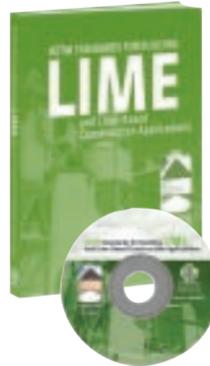


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STP 1463

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Editor: Dennis Damico

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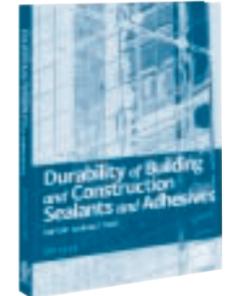
STP 1453

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Editor: Andreas T. Wolf

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Durability Studies of Sealants and Adhesives—studies the effect of different foam backer rods on the cure and mechanical performance of sealed joints; HVAC sealant longevity; and use of biocides.

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Manual 40
MOISTURE ANALYSIS and CONDENSATION CONTROL in BUILDING ENVELOPES

Editor: *Heinz R. Trechsel*

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Editors: *Jeffrey L. Erdly, Thomas A. Schwartz*

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Manual 49
USER'S GUIDE to ASTM Specification C 94 on READY-MIXED CONCRETE

Authors: *D. Gene Daniel, Colin L. Lobo*

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STP 1455
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Editors: Hyonny Kim, Keith T. Kedward



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Corrosion

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Editor: Robert Baboian

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Types of Tests—examines laboratory-accelerated tests, field tests, and service tests. This section describes test techniques and specific considerations such as specimen preparation, test duration, acceleration factors, and pertinent standards.

Testing for Corrosion Types—covers uniform, pitting, crevice, galvanic, intergranular, exfoliation, erosion, cavitation, fretting, dealloying, stress corrosion, corrosion fatigue and hydrogen damage.

Testing in Environment—addresses outdoor and indoor atmospheres, seawater, fresh water, soils, concrete, industrial waters, industrial chemical, petroleum, high-temperature gases, organic liquids, molten salts, liquid metals, corrosion inhibitors, in-vivo, and microbiological effects.

Materials Testing—gives you an overview of important tests used in evaluating the corrosion behavior of metals and alloys, including zinc, lead, aluminum, steels, copper, nickel, stainless steels, cobalt-base alloys, titanium, zirconium and hafnium, tantalum and niobium alloys, metallic coatings on steel, nonmetallic coatings, metal matrix composites, electrodeposits, and powder metallurgy materials.

Testing in Industries—provides an overview of corrosion testing unique to each industry, including automotive, commercial aircraft, military aircraft and equipment, pipeline, highways, tunnels and bridges, marine-piers and docks, electric power, nuclear power, steam generation, flue gas desulphurization, electronics, telecommunications, metal processing, chemical processing, pulp and paper, petroleum production and refining, food and beverage, water handling systems, medical and dental, and pharmaceutical.

Corrosion-Related Standards—provides a comprehensive list of standards developed by various organizations including the American Petroleum Institute, American Waterworks Association, ASME International, ASTM International, International Electrotechnical Commission, ISO, NACE International, SAE International, and the Steel Structures Painting Council.

800 Pages (2004); Hard Cover: 8.5" x 11"
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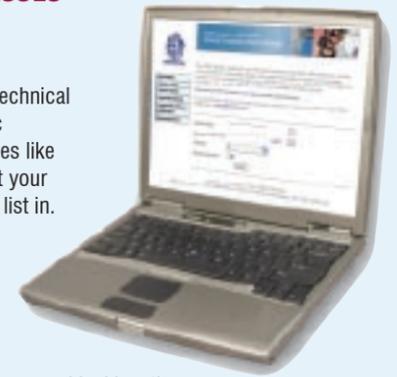
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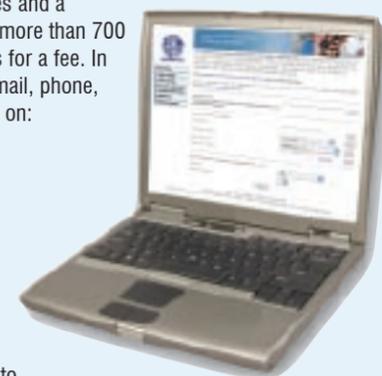
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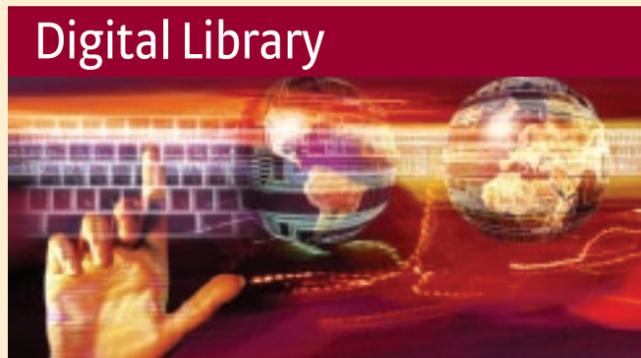
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STP 1473

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Editors: Kevin Ashley

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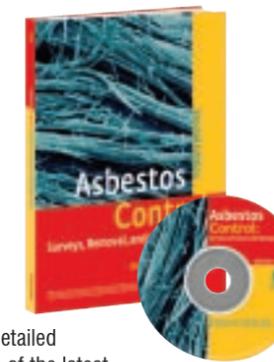
ASBESTOS

Manual 23

ASBESTOS CONTROL: Surveys, Removal, and Management, Second Edition

Author: Andrew F. Oberta

Includes CD-ROM of 5 ASTM standards referenced in the manual.



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- E 2018 Property Condition Assessments: Baseline Property Condition Assessment Process
- E 2308 Limited Asbestos Screens of Buildings
- E 2356 Comprehensive Building Asbestos Surveys
- E 2418 Readily Observable Mold and Conditions Conducive to Mold in Commercial Buildings: Baseline Survey Process
- CFR 29 Labor
- CFR 40 Protection of Environment
- 42 USC The Public Health and Welfare
- 107-118 Small Business Liability Relief and Brownfields Revitalization Act

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The latest edition of this popular ASTM publication includes the latest versions of ASTM E 1527-05 Standard Practice for Environmental Site Assessments: Phase I ESA Process and the EPA AAI document (40 CFR Part 312) with forward and table of contents, as well as ASTM E 1528-06 Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process.

The 2002 Small Business Liability Relief and Brownfields Revitalization Act sets forth as law specific eligibility conditions for achieving CERCLA liability protections known as "All Appropriate Inquiries" (AAIs). E 1527 demonstrates how to conduct all appropriate inquiries into the previous ownership and uses of the site in accordance with generally accepted good commercial and customary standards and practices.

Changes to E 1527-05 fall into three categories:

- The first primarily relates to expanding definitions introduced in the 2002 act, providing a "user" questionnaire to assist clients with fulfilling their AAI obligations, and citing the environmental professional definition and declaration required by the EPA AAI regulation.
- The second includes specific action items required by the EPA AAI regulation.
- The final category of revisions provides a framework and guidance on the more abstract requirements in the EPA AAI regulation.

Changes to E 1528-06 include:

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- Amending the term "recognized environmental condition" to a "potential environmental concern."

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Manual 43

TECHNICAL ASPECTS of Phase I/II ENVIRONMENTAL SITE ASSESSMENTS 2nd Edition

Authors: Zdenek Hejzlar, John R. Worlund

Updated to address the recent changes to the EPA All Appropriate Inquiry Rules and the newly revised ASTM Phase I Standard

This edition has been expanded to include additional explanations, approaches, and figures.

Manual 43 demonstrates how to apply the ASTM Phase I and Phase II ESA standards to typical everyday business decisions in the real estate transfer process. It can also be used as a training tool for environmental firms and lenders that need to introduce new staff to the environmental assessment market.

Stock #: MNL43-2ND-C09

For more information, contact Monica Siperko at msiperko@astm.org or (610) 832-9622.



ENVIRONMENTAL TOXICOLOGY and RISK ASSESSMENT

STP 1458

LANDSCAPE ECOLOGY and WILDLIFE HABITAT EVALUATION: Critical Information for Ecological Risk Assessment, Land-Use Management Activities, and Biodiversity Enhancement Practices

Editors: Lawrence Kapustka, Hector Galbraith, Matthew Luxon, Gregory R. Biddinger

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1,500 Pages (2004); Soft Cover: 8.5" x 11"
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Print ISBN: 978-0-8031-3334-1

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Oxygen Compatibility of Components and Systems—discusses a BAM study on the transfer of tests on materials to valves and fittings in real life situations; oxygen compatibility assessment on components and systems; mechanical impact of aluminum cylinders pressurized with oxygen; and more.

Analysis of Ignition and Combustion—provides a review on a relatively little investigated ignition mechanism (flow friction).

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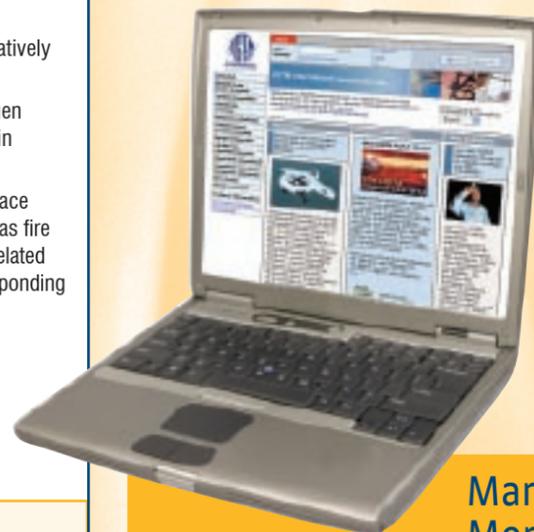
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Monograph 4

INVESTIGATION and INTERPRETATION of BLACK BOX DATA in AUTOMOBILES: A Guide to the Concepts and Formats of Computer Data in Vehicle Safety and Control Systems

Author: William Rosenbluth

160 Pages (2001); Soft Cover: 8.5" x 11"

Price: \$91; ISBN: 978-0-8031-2091-4

Stock #: MONO4-C09



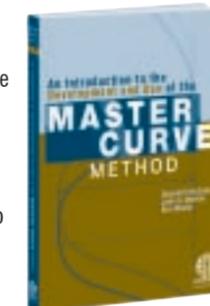
Fracture and Fatigue

Manual 52

An INTRODUCTION to the DEVELOPMENT and USE of the MASTER CURVE METHOD

Authors: D.E. McCabe, J.G. Merkle, K. Wallin

Learn how the methodology works and how it can be applied to design and safety evaluation problems



This ASTM manual introduces the concept of the Master Curve Method so it can be understood and used by engineers who have had limited exposure to elastic-plastic fracture mechanics and/or advanced statistical methods. It addresses the practical design-related problem of defining the ductile-to-brittle fracture transition temperature of structural steels directly in terms of fracture mechanics data.

Thirteen chapters cover:

- Background and historical aspects
- Data validity requirements
- Test specimens that can be used to develop valid K_{Ic}
- Fixturing and test equipment needs
- Preparation of specimens (precracking and side-grooving) for testing
- Test machines, their mode of operation, and recommended specimen loading rates
- All of the information needed to calculate values of K_{Ic}
- Scale parameter statistical equations for material testing
- Second option for calculating the T_0 temperature that is useable when K_{Ic} data have been generated at various test temperatures
- How the variability of K_{Ic} values is handled using the three-parameter Weibull model
- Information on concepts under study
- Brief discussion of important considerations involved in directly applying Master Curve fracture toughness data to the fracture-safety analysis of actual structures

66 Pages (2005); Soft Cover: 6" x 9"

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FATIGUE and FRACTURE MECHANICS: 35th Volume

Editors: Richard E. Link, Kamran M. Nikbin

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Other topics cover experimental results coupled to modeling techniques of linear, non-linear, time independent and dependant behavior of cracked geometries of a range of materials. Papers relating to residual stress, crack tip constraint and probabilistic methods of analyses also highlight the importance of developing these fields for future improvements in life assessment methods.

525 Pages (2007); Soft Cover: 6" x 9"

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ISBN: 978-0-8031-3406-5; Stock #: STP1480-C09

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New!

STP 1497

RESIDUAL STRESS EFFECTS on FATIGUE and FRACTURE TESTING and INCORPORATION of RESULTS into DESIGNEditors: *Jeffrey O. Bunch, Michael R. Mitchell*

Eleven peer-reviewed papers, written by experts in their field, provide an understanding of residual stresses, fatigue crack growth, fatigue lifetime predictions, and their effect on structural integrity. Residual stresses can be present due to processing and manufacturing of materials and structures, so it is imperative to understand how and why they can influence the test data used in structural design methodologies. Residual stresses may also be engineered into structures in attempts to improve fatigue life.

165 Pages (2007); Soft Cover: 6" x 9"

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ISBN: 978-0-8031-4472-9

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PENDULUM IMPACT MACHINES: Procedures and SpecimensEditors: *Tom Siewert, Chris McCowan, Michael Manahan*

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It represents the work of impact test researchers from around the world and provides input for further improvements in test methods, especially those used in construction codes and standards.

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- **Historical Developments in Impact Testing**—covers the history and procedure development for Impact Testing
- **Impact Test Procedures and Machine Effects**—discusses the effects on absorbed energy of removing and replacing an 8 mm Charpy striker
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- **Issues with Instrumented Strikers**—provides different approaches for the verification of force values measured with instrumented Charpy strikers

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Stock #: STP1476-C09

STP 1461

FATIGUE and FRACTURE MECHANICS, 34th VolumeEditors: *Steven R. Daniewicz, James C. Newman, Karl-Heinz Schwalbe*

Thirty-seven peer-reviewed papers focus on two significant topics within damage tolerance: structural assessment and fatigue behavior in the threshold regime.

Sections cover:

- Modeling of 3-D Effects on Fatigue Crack Closure Processes in Small-Scale Yielding
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- Fatigue Crack Growth in the Railroad Industry
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STP 1439

FATIGUE TESTING and ANALYSIS UNDER VARIABLE AMPLITUDE LOADING CONDITIONSEditors: *Peter C. McKeighan, Narayanaswani Ranganathan*

Thirty-eight peer-reviewed papers provide the latest information on fatigue testing and analysis under variable amplitude spectrum loading conditions. These papers focus purely on fatigue testing, fatigue design techniques, or a combination of both.

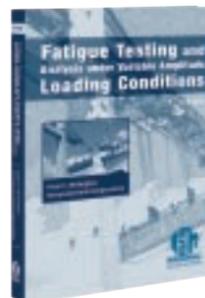
Six sections cover:

- Fatigue Testing and Laboratory Experience
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- Design Approaches and Modeling
- Other Applications
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600 Pages (2005); Soft Cover: 6" x 9"

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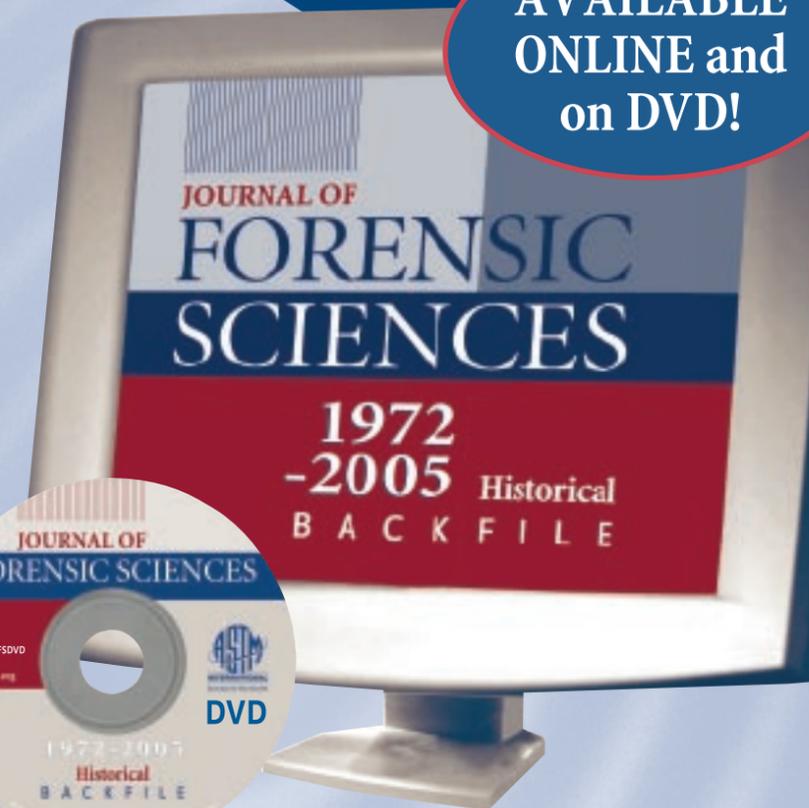
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STP 1450
PROBABILISTIC ASPECTS of LIFE PREDICTIONS

Editors: W. Steven Johnson, Ben M. Hillberry

Seventeen peer-reviewed papers give you the latest information on probabilistic fatigue life prediction methodology, including how to accurately determine the useful life or inspection intervals for complex structures. Sections cover probabilistic modeling, material variability, and applications—realistic approaches to and applications of probabilistic fatigue life predictions

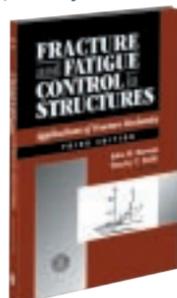
276 pages (2004) Soft Cover: 6" x 9"
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Third Printing!

Manual 41
FRACTURE and FATIGUE CONTROL in STRUCTURES: Applications of Fracture Mechanics, Third Edition

Authors: John M. Barsom, Stanley T. Rolfe

This comprehensive publication concentrates on the practical applications of fracture mechanics to fracture and fatigue control in structures, emphasizing the driving force and the resistance force. It also examines fitness for service, or life extension,



of existing structures whose design life may have expired but whose actual life can be continued. Finally, it provides case studies for the practicing professional engineer or graduate engineering student, which illustrate the effects of toughness, constraint, loading rate, failure analysis, and other factors that demonstrate the application of fracture mechanics to real-world structures. Five sections cover:

- Introduction to Fracture Mechanics
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- Fatigue and Environmental Behavior
- Fracture and Fatigue Control
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525 Pages (1999); Hard Cover: 6" x 9"
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Author: Kenneth G. Budinski

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Geosynthetics

STP 1456

ADVANCES in GEOSYNTHETIC CLAY LINER TECHNOLOGY: 2nd Symposium

Editors: R.E. Mackey, K.P. von Maubeuge

Ten peer-reviewed papers give you the latest information on geosynthetic clay liner (GCL) technology. Sections cover:

- Assessment of Clay Component—examines various aspects of testing the clay component and what knowledge these test results generate for the user.
- Durability of Clay Component—provides a better understanding of liquid/soil interactions with the bentonite and their possible effects on the durability of the clay component of the GCL.
- Evaluation of Current and Proposed GCL Standards—discusses ASTM standards D 5889 Practice for Quality Control of Geosynthetic Clay Liners; D 6495 Guide for Acceptance Testing of Geosynthetic Clay Liners; and D6243 Test Method for Determining the Internal and Interface Shear Resistance of Geosynthetic Clay Liner by the Direct Shear Method.
- Movement of Compounds through the GCLs—details investigations on the behavior of GCLs subject to thermal gradients in a containment application; effect of freeze-thaw on the permeation of arctic diesel fuel through GCLs.

158 Pages (2004); Soft Cover: 6" x 9"
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Geotechnical Engineering

New!

STP 1482

CONTAMINATED SEDIMENTS: Evaluation and Remediation Techniques

Editors: Masaharu Fukue, Katsutoshi Kita, Masami Ohtsubo, Ronald C. Chaney

This new ASTM publication covers characterization, evaluation, mitigation, restoration and management of contaminated sediments in the fields of oceanography, limnology, sedimentology, geochemistry, marine geotechnolgy, environmental science, and civil engineering. Papers also cover the physical, chemical, and biological aspects of sediments.

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384 Pages (2005); Soft Cover: 6" x 9"
Price: \$85
ISBN: 978-0-8031-3408-9; Stock #: STP1482-C09

STP 1459

INNOVATIONS in CONTROLLED LOW-STRENGTH MATERIAL (FLOWABLE FILL)

Editors: Jenny Hitch, Amster Howard, Warren Baas

As an added bonus you get five ASTM standards on CLSM developed by Committee D18 on Soil and Rock.

Get the latest information on Controlled Low-Strength Material (CLSM), including the latest design procedures, current research, unique project applications, and innovative installation techniques. Also known as flowable fill, CLSM is used in place of compacted backfill or unsuitable native soil with the most common uses as pipe embedment and backfill. Eleven peer-reviewed papers cover innovative ingredients, engineering property analysis, and pipeline applications.



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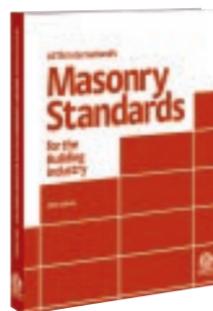
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Editors: Stanley A. Brown, Leslie N. Gilbertson, Victoria D. Good

Thirteen peer-reviewed papers provide the latest information on simulator wear testing of orthopedic joint systems, as well as the relationship of simulated wear to clinical wear.

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- **Lubricants and General**—focuses on the biological effects of lubricants and wear debris. These papers emphasize the importance of effectively separating lubricant absorption from effects of wear and the problem of measuring low wear rates associated with radiation modified polyethylene.
- **Total Hip**—examines different setups for total hip simulators.

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STP 1471

TITANIUM, NIOBIUM, ZIRCONIUM, and TANTALUM for MEDICAL and SURGICAL APPLICATIONS

Editors: Lyle D. Zardiackas, Matthew J. Kraay, Howard L. Freese

Reactive metals and their alloys are used in a variety of biomedical applications from pace makers to hips implants. This ASTM publication provides the latest developments on these alloys, their processing techniques for medical applications, characterization of fundamental materials properties critical to their use for biomedical applications, and evaluation of biological and clinical performance.

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- **Alloy Processing**—includes information on the formulation and processing of five important, new implantable metallic biomaterials.
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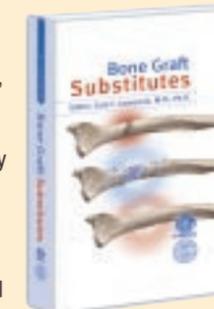
Monograph 6

BONE GRAFT SUBSTITUTES

Editor: Cato T. Laurencin

Co-published by ASTM International and The American Academy of Orthopaedic Surgeons

This unique publication represents the latest research of a distinguished panel of authors, recognized leaders in their respective scientific, clinical, and regulatory fields. It provides an in-depth discussion of the various classes of substitutes with special attention to enormously important issues involving both the regulation of these materials and the development of standards for fabrication and characterization.



- Section I presents a summary of the clinical use of bone allografts and allograft-based bone graft substitutes.
- Section II covers the use of cells and growth factors.
- Section III covers synthetic materials, including polymers and ceramics, for bone graft substitutes.

250 Pages (2003); Hard Cover: 6" x 9"

Price: \$154

ISBN: 978-0-8031-3356-3

Stock #: MON06-C09

Metallography

New!

Manual 46

METALLOGRAPHIC and MATERIALOGRAPHIC SPECIMEN PREPARATION, LIGHT MICROSCOPY, IMAGE ANALYSIS and HARDNESS TESTING

Author: Kay Geels, in collaboration with Michael Ruckert, Wolf-Ulrich Kopp, Daniel B. Fowler

Twenty-eight comprehensive chapters cover all aspects of the metallographic and materialographic specimen preparation process, light microscopy, image analysis, and hardness testing.

Part I describes sectioning, mounting, grinding, polishing, and etching of specimens for examination in reflected light, enabling the reader to understand the mechanisms of the entire preparation process.

Part II is a "hands-on" manual guiding the metallographer and materialographer to the correct preparation method, based on the material to be prepared and on the purpose of examination. More than 150 methods are indicated covering practically all types of materials, describing the preparation process from sectioning to etching. This part also includes a section on trouble shooting, covering all stages in the preparation process and artifacts developed during the preparation.

Part III describes the optical reflected-light microscope with photomicroscopy giving the reader both an introduction to the subject and a manual for the daily work.

Part IV is an introduction to quantitative microstructural analysis and automatic image analysis, both theoretically and practically with emphasis on the examinations based on ASTM standards and other types of commonly used analyses.

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For more information, contact Monica Siperko at (610) 832-9622 or msiperko@astm.org.

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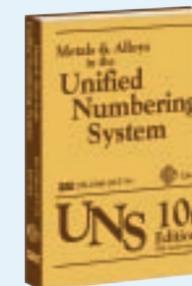
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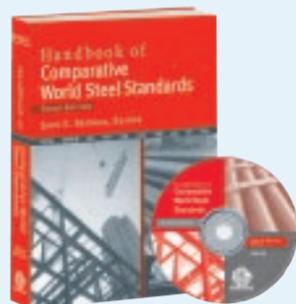
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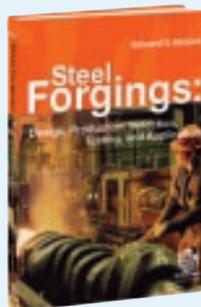
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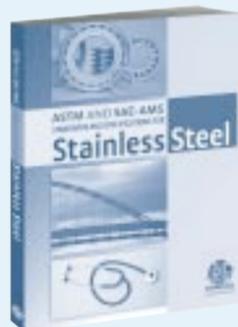


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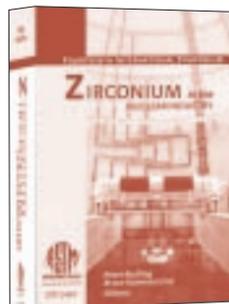
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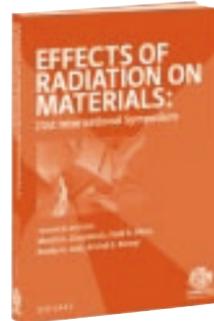
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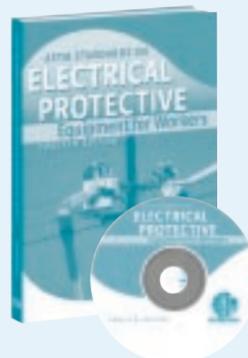
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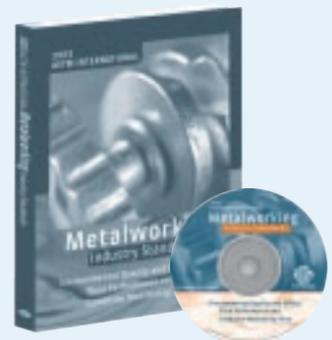
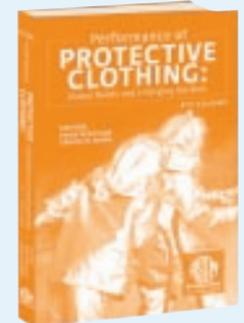
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Editor: *Frederick J. Passman*

Thirty-nine ASTM test methods, practices, and guides address issues ranging from fluid performance to condition monitoring tests to plant environment, health, and safety. Optimal selection and use of metalworking fluids depends on multiple factors, including raw material selection, fluid formulation, water quality, in-process fluid management and good industrial hygiene practices. This ASTM publication gives you the tools to determine whether fluid properties are changing in a direction or at a rate that is likely to result in performance decline, increased worker health risk, or both. It provides metalworking industry professionals with a terrific resource for all aspects of metalworking fluids and their application.

217 Pages (2003); Soft Cover: 8.5" x 11"; Price: \$105
Print ISBN: 978-0-8031-3140-8
Print Stock #: FLUIDS03-C09
CD-ROM ISBN: 978-0-8031-3143-9
CD-ROM Stock #: FLUIDSCD-C09



To see complete descriptions, and in some cases the table of contents and sample chapters, visit www.astm.org and enter the stock number at the site search.

Packaging



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Fee: \$449

Learn how to improve the performance of your packaged products in direct-to-customer shipping. This ASTM course details what packages encounter in small parcel shipping (UPS, FedEx, USPS, etc.) and how to package for damage-free shipments.

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Get proper training in the development and application of performance testing plans for transport packaging. The primary focus of this course is ASTM Standard D 4169 Performance Testing of Shipping Containers and Systems. Learn how to conduct a test plan for an actual packaged product in a testing lab and assure success in e-commerce.

Paints and Coatings

Manual 17

PAINT and COATING TESTING MANUAL (Gardner-Sward Handbook, 14th Edition)

Editor: Joseph V. Koleske

The well-respected Gardner-Sward Handbook reflects the many changes in the paints and coatings industry. Seventy-eight chapters cover:

- Current industry regulations
- Main polymeric species, colorants, special pigments, extenders, and additives used in the industry
- Analyses used to dissect and analyze a coating
- Instruments used in the industry
- Products of the industry and how they are used and tested



925 Pages (1995); Hard Cover: 8.5" x 11"

Price: \$261; ISBN: 978-0-8031-2060-5; Stock #: MNL17-C09



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For more information, visit www.astm.org and click on Training Courses, or contact Scott Murphy at (610) 832-9685 or smurphy@astm.org

- **Retroreflective Materials Used in Transportation**

Petroleum

Available on CD-ROM

ASTM STANDARDS RELATED to BIODIESEL FUEL BLEND STOCK (B 100) for MIDDLE DISTILLATE FUELS

This CD-ROM contains ASTM Standard D 6751 and all 35 referenced ASTM documents.

The increasing market for diesel fuel has encouraged the development and use of alternative diesel fuels and diesel fuel blend components. One of the most successful new blend components is biodiesel. In ASTM Standard Specification for Biodiesel Fuel (B100) Blend Stock for Distillate Fuels (D 6751), biodiesel is defined as "a fuel comprised of mono-alkyl esters of long chain fatty acids derived from vegetable oils or animal fats, designated B100." D 6751 covers the use of biodiesel as a blend component to be mixed with petroleum diesel. Typical blend ratios range from 2 volume percent up to 20 volume percent.

(2005)

Price: \$85

ISBN: 978-0-8031-3346-4

Stock #: BIODIESEL-C09



Manual 50

CHARACTERIZATION and PROPERTIES of PETROLEUM FRACTIONS

Author: M. R. Riazi

"Perhaps the most comprehensive and important new text on petroleum production and processing published in many years. Numerous examples and problems are an invaluable resource for practicing engineers and chemists, as well as university professors."

George E. Totten, Ph.D., G.E. Totten and Associates, LLC

Easily understandable to both petroleum professionals, as well as those without a technical engineering background, this unique manual provides a comprehensive reference for the petroleum industry in both processing and production.

What makes this manual so unique?

- Presents over 600 predictive methods from theoretical to empirical, including the most widely used and most accurate ones for a wide range of conditions
- Covers over 100 thermodynamic and physical properties, which are applicable to a wide range of pure compounds, mixtures, petroleum fractions, petroleum products, heavy residues, waxes, asphaltene, crude oils, natural gases, reservoir fluids, and coal liquids
- Discusses light and heavy, liquid and vapor, and low and high-pressure systems
- Provides specific recommendations for each listed property and its applications
- Includes solved practical problems and presents exercise problems with a large number of actual data for oils from around the world.
- A complete solutions manual for college and university professors

Nine comprehensive chapters cover:

- Introduction
- Properties of Pure Hydrocarbons
- Characterization of Petroleum Fractions
- Characterization of Crude Oils and Reservoir Fluids
- PVT Relations and Equations of States
- Thermodynamic Relations for Property Estimations
- Applications: Estimation of Thermophysical Properties
- Applications: Estimation of Transport Properties
- Applications: Phase Equilibria Calculations

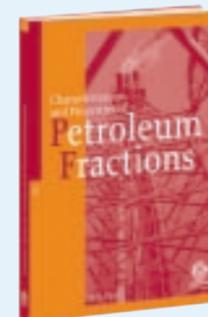
Attention College and University Professors: Get a 40% discount on classroom orders. A 60% discount is available, with free shipping, for orders of 10 or more books. Also available to professors, free of charge, is a complete solutions manual. For more information, contact Monica Siperko at msiperko@astm.org or (610) 832-9622.

407 Pages (2005); Hard Cover: 8.5" x 11"

Price: \$197

ISBN: 978-0-8031-3361-7

Stock #: MNL50-C09



Best Seller!

Manual 37

FUELS and LUBRICANTS HANDBOOK: Technology, Properties, Performance and Testing

Editor: George E. Totten

Section Editors: Steven R. Westbrook, Rajesh J. Shah

"Manual 37 provides an in-depth discussion of a large range of fuels and lubricants and the test methods used in determining their properties and performance characteristics. This well-illustrated book assists the reader not familiar with a topic in gaining an understanding of the test equipment used or in the concept involved. Each chapter includes a list of the appropriate ASTM and other standards and often provides cross-reference to the standards of other organizations and countries."

Harry N. Giles, Editor, IASH Newsletter

Manual 37 is a comprehensive, in-depth, well-referenced handbook that provides a detailed overview of ALL of the important ASTM and non-ASTM fuels and lubricants test procedures. Readers will get a thorough overview of the application-related properties being tested and an extensive discussion of the principles behind the tests and their relationship to the properties themselves.

1,087 Pages (2003)

Hard Cover: 8.5" x 11"

Price: \$325; ISBN: 978-0-8031-2096-9

Stock #: MNL37WCD-C09



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New!

COAL CHEMISTRY TECHNICIAN TRAINING (2 days)

Fee \$795

Get a comprehensive review of good laboratory practices in coal chemistry focusing on the most frequently used standards used in coal chemistry labs.

Manual 11

MANUAL on DRILLING, SAMPLING, and ANALYSIS of COAL

This manual provides guidelines on the drilling, sampling, and analysis of coal. It can be modified as necessary to fit your specific needs. For example, you can use it to prepare your own field manual to standardize exploration activities.

Chapters cover:

- Drilling equipment
- Geophysical logging
- Description of coal and rocks
- Sampling of coal cores
- Evaluation of core data
- Laboratory analysis of coal and rock drill core samples

Manual 11 also serves as a reference document for those who use the core sampling ASTM Standard Practice for Collection of Coal Samples from Core (D 5192), included in the Appendix.

72 Pages (1992); Soft Cover: 8.5" x 11"

Price: \$55

ISBN: 978-0-8031-1464-7; Stock #: MNL11-C09

To see complete descriptions, and in some cases the table of contents and sample chapters, visit www.astm.org and enter the stock number at the site search.

Updated Edition!

Manual 5 AVIATION FUEL QUALITY CONTROL PROCEDURES: 3rd Edition

Editor: Jim Gammon

Using straightforward language and illustrations, this guide provides a complete explanation of 33 common procedures used by fuel handlers to assess and protect aviation fuel quality. Get the latest information available, contributed by experts from oil companies, airlines, pipeline companies, third-party refueling companies, filter companies, fueling vehicle builders, consultants, aviation products distributors, and other aviation associated organizations. All field procedures or test methods listed are simplified versions of corresponding ASTM standard methods or practices. These procedures are the result of practical dealings with numerous airport systems.

This is a necessary resource for fixed base operators, oil company personnel who handle and distribute jet fuel from refineries at source into aircraft at airports, airport service companies, aviation products representatives, purchasers, quality control personnel, and fuel system designers.

64 Pages (2004); Soft Cover: 8.5" x 11"
Price: \$55; ISBN: 978-0-8031-3360-0
Stock #: MNL5-3RD-C09

STP 1468 ELEMENTAL ANALYSIS of FUELS and LUBRICANTS: Recent Advances and Future Prospects

Editor: R. A. Kishore Nadkarni

Twenty-three peer-reviewed papers examine the latest information on the elemental analysis of fuels and lubricants. Six sections cover:

Overview—discusses total quality management practices advocated for obtaining a "perfect" analysis, including proper staff training, sampling, calibration and quality control practices.

Atomic Spectroscopy—focuses on various aspects of inductively coupled plasma atomic emission spectrometry (ICP-AES), mass spectrometry, and isotope dilution mass spectrometry.

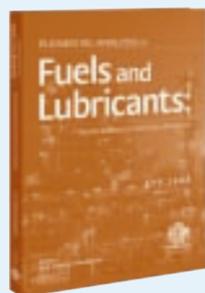
X-Ray Spectroscopy—deals with X-ray fluorescence (XRF), including the determination of sulfur in gasoline and diesel, high-power and low-power wavelength dispersive x-ray fluorescence (WDXRFs), and bench top energy dispersive X-ray fluorescence (EDXRF).

Sulfur Analysis—examines the analyses of low levels of sulfur in petroleum products, particularly gasoline, reformulated gasoline, and diesel; and applications of on-line technology for sulfur determination in fuels.

Mercury Determination—addresses concerns regarding the mercury content of crude oils and its emission through the petroleum refining process.

Other Heteroatoms—discusses the use of atomic emission detection using gas chromatography (AED-GS) to determine elements such as carbon, nitrogen, etc.; and much more.

275 Pages (2005); Soft Cover: 6" x 9"
Price: \$90; ISBN: 978-0-8031-3494-2; Stock #: STP1468-C09



Manual 47 FUEL AND FUEL SYSTEM MICROBIOLOGY: Fundamentals, Diagnosis, and Contamination Control

Editor: Frederick J. Passman

This ASTM manual provides clear and accessible insight into the nature of fuel and fuel system biodeterioration, sampling requirements, test methods, and remediation practices. As a complement to ASTM D 6469 Standard Guide for Microbial Contamination in Fuels and Fuel Systems, this publication provides an overview of:

- Microbiological principles underlying fuel and fuel system biodeterioration
- Sample collection and handling
- Recommendations for disinfecting and removing microbial contamination from fuels and fuel systems
- A variety of diagnostic tests

It applies to furnace, aviation gasoline, diesel, aviation turbine, marine, industrial gas turbine, kerosene, gasoline, fuel systems, crude oil, and all liquid petroleum fuels.

114 Pages (2003); Soft Cover: 8.5" x 11"
Price: \$98; ISBN: 978-0-8031-3357-0; Stock #: MNL47-C09

New Edition Coming Soon!

Manual 44 GUIDE to ASTM TEST METHODS for the ANALYSIS of PETROLEUM PRODUCTS and LUBRICANTS 2nd Edition

Author: R.A. Kishore Nadkarni

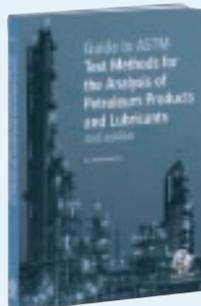
Over 200 new test methods have been added to the second edition!

The essential elements of all standard analytical tests used to characterize petroleum products and lubricants are now available in one unique volume. Brief descriptions of the 576 tests described, include principles involved, test summary, advantages, limitations, and test precision data. Where available equivalent tests from IP, ISO, JIS, DIN, and AFNOR are also referenced.

It is critical for testing laboratory personnel to be fully familiar with all the details of the tests they are performing. But it is also important for non-laboratory personnel to know at least the significance, advantages, limitations, and precision of particular tests used to characterize product quality. Only by understanding the pros and cons of these tests can both suppliers and customers reach sound conclusions and agree on the appropriate quality and performance of a product.

The test methods covered involve a variety of analytical techniques to identify and/or quantify over 220 chemical and physical properties of crude oils, gasoline, reformulated gasoline, lubricating oils, additives, transmission fluids, lubricating greases, gear oils, aviation fuels, diesel and heating fuels, petroleum waxes, marine fuels, and other specialty petroleum products.

Stock #: MNL44-2ND-C09
For more information, contact Monica Siperko at msiperko@astm.org or 610-832-9622.

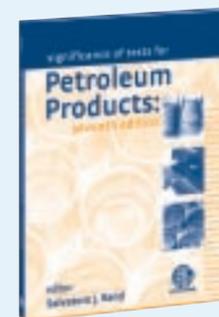


Best Seller!

Manual 1 SIGNIFICANCE of TESTS FOR PETROLEUM PRODUCTS, 7th Edition

Editor: Salvatore J. Rand

Get the latest analytical procedures and specifications for the vast range of petroleum products—worldwide! This edition tells you what tests are run on petroleum products, and why they are run.



Each chapter lists appropriate ASTM test methods and in 15 of 21 chapters these are cross-referenced with IP procedures, where the IP have similar test methods. Other chapters cross-reference and list ISO, API, OECD, EPA, DIN, and EPS methods, where applicable.

A must-have for those who run and interpret the tests for the purpose of understanding product quality. Petroleum refinery and test lab personnel, will find this an invaluable technical resource. It includes 21 new or updated chapters, including an introduction, eight new chapters, and 12 that have been updated to reflect new specifications and test methods.

New chapters address:

- **Sampling Techniques**—discusses proper sampling of a product
- **Fuel Oxygenates**—deals with the Clean Air Act, which mandates the addition of oxygenates to gasoline
- **Automotive Engine Oils**—reflects new challenges in test method development of oils for automotive use
- **Lubricant Base Fluids**—recognizes the importance of the composition of base oils and the effect of that composition on proper lubrication by the finished blend with additives
- **Environmental Characteristics for Petroleum Products**—discusses standard test methods for measuring toxicity and biodegradation of lubricants

258 Pages (2003); Soft Cover: 8.5" x 11"
Price: \$98
ISBN: 978-0-8031-2097-6
Stock #: MNL1-7TH-C09



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For details, see page 67 or visit www.astm.org/TRAIN

CRUDE OIL: Sampling, Testing, and Evaluation (2 days)

Fee: \$795

This ASTM course concentrates on how to properly conduct analyses of crude oil and report the data according to established ASTM standards. It includes a tour of a petroleum testing laboratory or marine terminal. You will learn:

- How to obtain representative samples of crude oil using automatic and manual methods
- About the test methods available for obtaining the basic data necessary to determine quantity for custody transfer purposes conformance to expected quality
- How to make a rapid evaluation of the commodity for assessing handling and processing characteristics

GASOLINE: Specifications, Testing, and Technology (3 days)

Fee: \$995

This course concentrates on the properties and specifications of gasoline and how they affect its performance in a spark ignition engine. Includes a tour of a gasoline testing laboratory. You will learn how gasoline and compositional variables affect engine performance; how to interpret test data to determine if gasoline meets required specifications and regulations; and more.

AVIATION FUELS: Specifications and Test Methods (3 days)

Fee: \$995

The Aviation Fuels course focuses on how specifications are used to control the quality of aviation fuels, and why they affect product performance and availability. It emphasizes practical applications, and ASTM's role in developing specifications and methods, while highlighting past and current problems in a participatory atmosphere. Includes a tour of an airport fuel system facility.

MARINE FUELS: Specifications, Testing, Purchase, and Use (3 days)

Fee: \$995

The Marine Fuels course explains how the properties of marine fuels affect fuel handling, combustion, and cost. It provides a detailed understanding of fuel quality requirements, and why they are necessary for good handling and combustion performance. Includes a laboratory tour.

ASTM's INTERNATIONALLY RECOGNIZED INTERLABORATORY CROSSCHECK PROGRAMS

Sponsored by ASTM Committee D02 on Petroleum Products and Lubricants

The 21 programs (listed below) provide participating laboratories with SQA tool enabling them to demonstrate their proficiency in the performance of a given test(s) through confidential comparison of data with other laboratories worldwide. **2007 programs include:**

- # 2 Diesel Fuel
- #6 Fuel Oil
- Automatic Transmission Fluid (ATF)
- Automotive Lubricants Additives
- Aviation Turbine (Jet A) Fuel
- Base Oil
- Biodiesel
- Crude Oil
- Engine Oil Lubricants
- Gear Oil
- General Gas Oils
- Hydraulic Fluids/Oils
- Industrial Gear Oil
- In-Service Oil Monitoring/Diesel Oil
- **New!** In-Service Oil Monitoring/Hydraulic Fluids and Oils
- Lubricating Grease
- Motor Gasoline
- Petroleum Wax
- Reformulated Gasoline (RFG)
- Turbine Oil
- Ultra-Low Sulfur Diesel Fuel

ASTM's INTERNATIONALLY RECOGNIZED PROFICIENCY TEST PROGRAMS

Engine Coolants

Insulating Fluid Quality

Aromatic Hydrocarbons

For more information, see page 68 or www.astm.org/STATQA

To see complete descriptions, and in some cases the table of contents and sample chapters, visit www.astm.org and enter the stock number at the site search.

Available on CD-ROM!
Adjunct D 1250

TEMPERATURE and PRESSURE VOLUME CORRECTION FACTORS for GENERALIZED CRUDE OILS, REFINED PRODUCTS, and LUBRICATING OILS

ADDED BONUS:

Includes a copy of the latest version of ASTM D 1250



Approved by ASTM International, the American Petroleum Institute, and the Energy Institute, this unique CD-ROM calculates the combined volume correction factor (VCF) due to temperature, pressure, and CTPL, using the required implementation procedures. Therefore, it provides the functional equivalent of all twelve volumes of the printed petroleum measurement tables. With this adjunct, users will be able to calculate the CTPL for their specific measurement conditions and to print tables for their range of interest, which usually will be of a limited temperature and pressure range.

Adjunct D 1250 generates VCFs based upon petroleum product type, API gravity or density, and temperature. The tables, generated from the official implementation procedures, are used worldwide in custody transfer and accounting operations to adjust bulk volumes of crude oil and products measured at temperatures other than base temperature (60° F or 15° C). Base temperature can also be modified for situations where it is not 60° F or 15° C.

New Features:

- Expands output to five decimal places
- Performs computations
- Compensates for pressure (as an optional component of VCF)
- Expands temperature range
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- Provides functional equivalent of all 12 volumes of the printed tables

This CD-ROM is an electronic version of the adjunct to ASTM D 1250 Standard Guide for Use of the Petroleum Measurement Tables; Chapter 11 of API's Manual of Petroleum Measurement Standards; and adjunct to IP 200/04.

Single User* \$450

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* Individual Workstation

ASTM D 1250 Adjunct

PETROLEUM MEASUREMENT TABLES

Please note that the volumes may be ordered separately or as a complete set.

Volume I:

Table 5A—Generalized Crude Oils, Correction of Observed API Gravity to API Gravity at 60°F

Table 6A—Generalized Crude Oils, Correction of Volume to 60°F Against API Gravity at 60°F

678 Pages; Price: \$66

Stock #: **ADJD125001-C09**

Volume II:

Table 5B—Generalized Products, Correction of Observed API Gravity to API Gravity at 60°F

Table 6B—Generalized Products, Correction of Volume to 60°F Against API Gravity at 60°F

592 Pages; Price: \$66

Stock #: **ADJD125002-C09**

Volume III:

Table 6C—VCFs for Individual and Special Applications, Volume Correction to 60°F Against Thermal Expansion Coefficients at 60°F

563 Pages; Price: \$66

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Volume IV:

Table 23A—Generalized Crude Oils, Correction of Observed Relative Density to Relative Density 60/60°F

Table 24A—Generalized Crude Oils, Correction of Volume to 60°F Against Relative Density 60/60°F

878 Pages; Price: \$77

Stock #: **ADJD125004-C09**

Volume V:

Table 23B—Generalized Products, Correction of Observed Relative Density to Relative Density 60/60°F

Table 24B—Generalized Products, Correction of Volume to 60°F Against Relative Density 60/60°F

812 Pages; Price: \$77

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Volume VI:

Table 24C—VCFs for Individual and Special Applications, Volume Correction to 60°F Against Thermal Expansion Coefficients at 60°F

563 Pages; Price: \$66

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Volume VII:

Table 53A—Generalized Crude Oils, Correction of Observed Density to Density at 15°C

Table 54A—Generalized Crude Oils, Correction of Volume to 15°C Against Density at 15°C

958 Pages; Price: \$77

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Table 53B—Generalized Products, Correction of Observed Density to Density at 15°C

Table 54B—Generalized Products, Correction of Volume to 15°C Against Density to 15°C

881 Pages; Price: \$77

Stock #: **ADJD125008-C09**

Volume IX:

Table 54C—VCFs for Individual and Special Applications, Volume Correction to 15°C Against Thermal Expansion Coefficients at 15°C

587 Pages; Price: \$66

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202 Pages; Price: \$55

Stock #: **ADJD125011-C09**

Special Price for All Volumes.

Price: \$655; Stock #: **ADJD1250CS-C09**

Note: Historical Edition of Petroleum Measurement Tables (1952) still available.

Price: \$110

Stock #: **ADJD1250AM-C09**

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2-Year Subscription: \$3,850

Stock #: **UOPCD-C09**

Individual downloads are also available individually at \$165 each.

Plastics



ASTM TECHNICAL and PROFESSIONAL TRAINING in the USE and APPLICATION of ASTM STANDARDS

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An INTRODUCTION to MAJOR TESTING TECHNIQUES for PLASTICS (3 days)

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This course gives you an introduction to the basic principles, techniques, and equipment for the most commonly used physical and analytical tests on polymeric materials, including: mechanical properties, chemical analysis, combustibility, instrumental analysis, and thermal aging. Please Note: Emphasis is on fundamentals rather than advanced theory.



ASTM's INTERNATIONALLY RECOGNIZED PROFICIENCY TEST PROGRAMS

These programs provide participating laboratories with a SQA tool enabling them to demonstrate their proficiency in the performance of a given test(s) through confidential comparison of data with other laboratories worldwide.

- **MULTIPLASTICS: Mechanical Properties**
- **POLYPROPYLENE: Mechanical Properties**

For the two programs above, each lab receives an appropriate and sufficient number of test specimens to conduct tests according to ASTM and/or ISO methods.

- **POLYETHYLENE TESTING**

This program focuses on the determination of melt index, density, ash, and color of polyethylene materials.

- **FLAMMABILITY TESTING**

This program demonstrates a laboratory's proficiency in performing a commonly used small-scale laboratory flammability test on centrally prepared plastic test specimens.

For more information, see page 68 or visit www.astm.org/STATQA

Polishes

STP 1448

TECHNOLOGY of FLOOR MAINTENANCE and CURRENT TRENDS

Editor: William J. Schalitz

This ASTM publication gives you the latest information on ALL ASPECTS of floor polish in easy-to-understand terms. Ten peer-reviewed papers cover a thorough review of the chemistry involved in floor polishes and associated coatings; coating maintenance and static coefficient of friction (COF); and legal and regulatory issues.

177 Pages (2004); Soft Cover: 6" x 9"

Price: \$79; ISBN: 978-0-8031-3482-9

Stock #: **STP1448-C09**



To see complete descriptions, and in some cases the table of contents and sample chapters, visit www.astm.org and enter the stock number at the site search.

Quality and Testing

DS51E

ASTM COMPUTER PROGRAM for CHEMICAL THERMODYNAMIC and ENERGY RELEASE EVALUATION—CHETAH® Version 8.0

The CHETAH® program is a vital resource for predicting both thermochemical properties and certain reactive chemical hazards associated with a pure chemical, a mixture of chemicals, or a chemical reaction. This is accomplished through knowledge of only the molecular structure of the component involved by an implementation of Benson's method of group additivity. CHETAH® is useful for classifying materials for their ability to decompose with violence, estimating heats of reaction or combustion, and for predicting certain flammability properties such as lower flammable limits and limiting oxygen concentrations. It also calculates several important properties such as ideal gas heat capacity, enthalpy of formation, entropy, and Gibbs free energy of formation.

CHETAH® not only predicts potential hazards, but is widely used in the reactive chemicals evaluation programs of personnel responsible for ensuring safe operations at research, process development, and manufacturing sites.

What's New in CHETAH 8.0?

Version 8.0 has a greatly expanded capability to do flammability calculations, and can now calculate:

- Lower Flammable Limit (LFL) for pure chemicals or mixtures using two different highly respected methods (Bothwell's Method and Britton's Method)
- Lower Flammable Limits can now be calculated at other temperatures besides 298 K
- Limiting oxygen concentration (LOC) for pure chemicals or mixtures
- Minimum Ignition Energy (MIE)
- Lower Limit Flame Temperature (LLFT)
- Maximum Flame Temperature (T_{max})
- Fundamental Burning Velocity (Su)
- Quenching Distance (qd)

Additional enhancements:

- 70 new Benson groups to expand the range of chemicals that can be calculated
- Easy cut, paste, and editing of programs output into Microsoft Word and Excel
- New attractive interface design for ease of use
- Structural drawings of Benson ring corrections now available

System requirements: CD drive and hard disk with 9 megabytes of available space, Windows 98, 2000, 2003, ME, XP, and Windows NT 3.51 or later.

CD-ROM (2005) with Program User's Manual: 160 Pages; Soft Cover: 6" x 9"
Price: \$895; ISBN 978-0-8031-3366-2; Stock #: DS51E-C09

Bonus: Conveniently packaged with CHETAH 8.0 is the Chemical Reactivity Worksheet by NOAA. This chemical database includes reactivity information for more than 6000 common hazardous chemicals. Virtually "mix" chemicals to find out what dangers could arise. Select chemicals from the database by name or by using their CAS numbers and add them to the mixture.

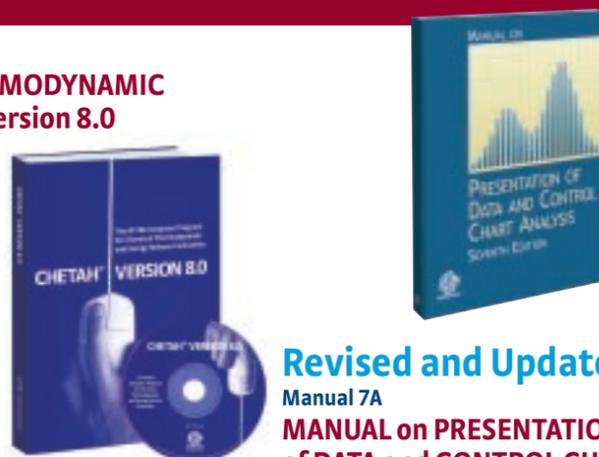
Adjunct E 691

ASTM INTERLABORATORY DATA ANALYSIS SOFTWARE PACKAGE

Performs round robin statistical calculations on data files resulting from an interlaboratory study. Analyzes the data according to ASTM standard E 691, Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method, and provides the statistical information needed to construct the precision statement of a test method, including tabular worksheets, precision parameters, h-values, and k-values. Tables and graphs may be viewed on the screen or printed as hard copy.

System Requirements: Any microcomputer capable of running Windows v3.10, Windows 95, or OS/2. Although not required a numeric data coprocessor will speed up the calculations substantially. This program can read and write to the ASTM DOS version file format.

3.5" Disk Package (1997); Price: \$109; ISBN: 978-0-8031-1843-0
Stock #: ADJE0691-C09



Do the Demo!
Enter DS51E
at the Site Search

Revised and Updated!

Manual 7A

MANUAL on PRESENTATION of DATA and CONTROL CHART ANALYSIS: 7th Edition

This comprehensive manual assists in the development of supportive data and analysis when preparing standard test methods, specifications, and practices. It provides the latest information regarding statistical and quality control methods and their applications. This is the 7th revision of this popular manual first published in 1933 as STP 15 and is an excellent teaching and reference tool for data analysis and compliments work needed for ISO quality control requirements.

Part 1 discusses frequency distributions, simple statistical measures, and the presentation in concise form, of the essential information contained in a single set of observations

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135 Pages (2001); Soft Cover: 8.5" x 11"
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Second Printing!

Manual 12

MANUAL on the USE of THERMOCOUPLES in TEMPERATURE MEASUREMENT (Formerly STP 470B)

This volume includes principles, circuits, standard electromotive force (EMF) tables, stability and compatibility data, installation techniques, and other information that will aid both the beginner and the experienced user of thermocouples. Completely revised in accordance with the International Temperature Scale of 1990 (ITS-90).

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Rubber

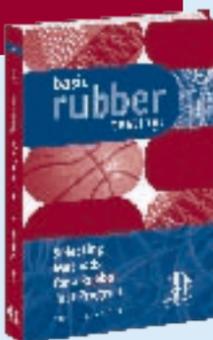
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Editor: John S. Dick

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Editors: Edgar Chambers IV; Mona Baker Wolf

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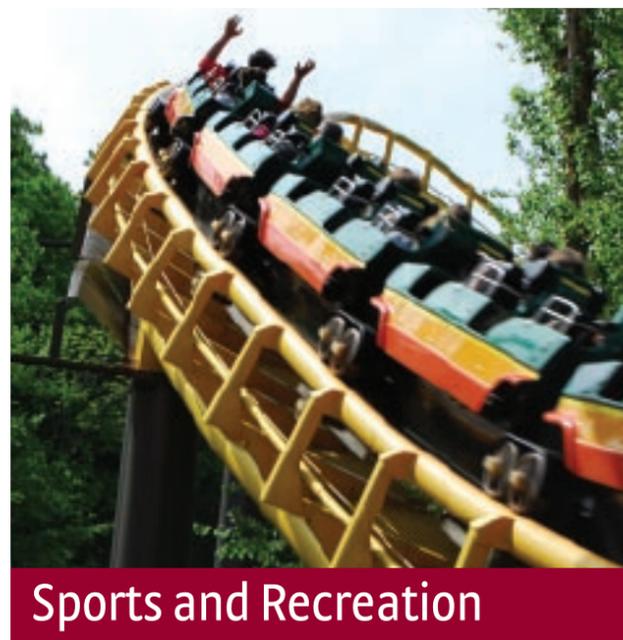
DS 66

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Editors: Gail Vance Civile, Brenda G. Lyon

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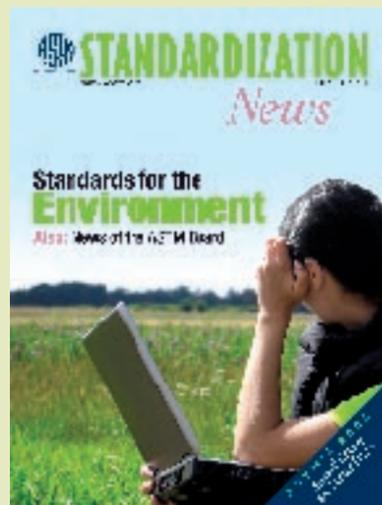


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- B07 Alloys (Light Metals and)
- B02 Alloys (Nonferrous Metals and)
- B10 Alloys (Reactive and Refractory Metals and)
- A01 Alloys (Steel, Stainless Steel, and Related)
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- F29 Anesthetic and Respiratory Equipment
- E12 Appearance (Color and)
- D16 Aromatic Hydrocarbons and Related Chemicals
- G04 Atmospheres (Compatibility and Sensitivity of Materials in Oxygen Enriched)
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