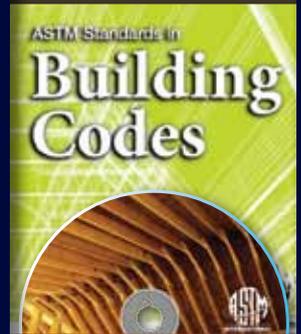


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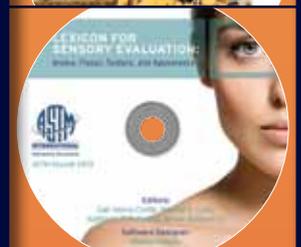
## Paint and Coating Testing Manual

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## Spectroscopic Analysis of Petroleum Products and Lubricants

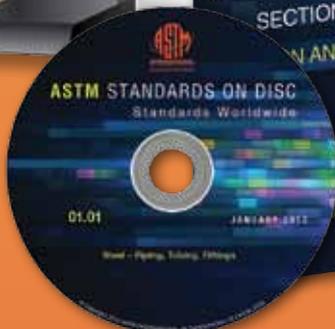
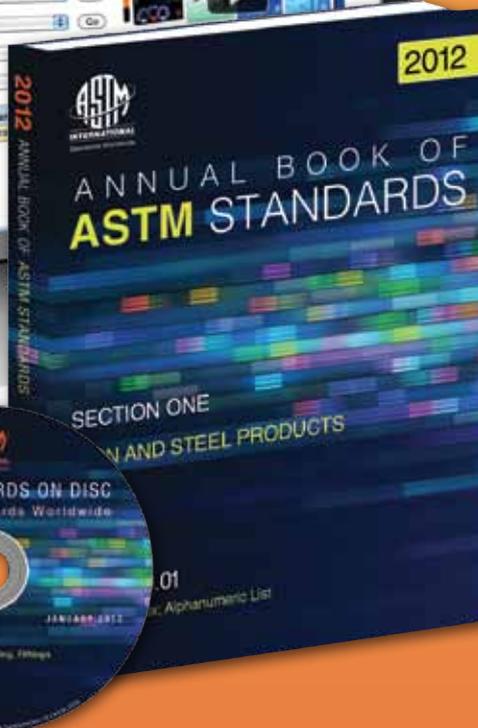
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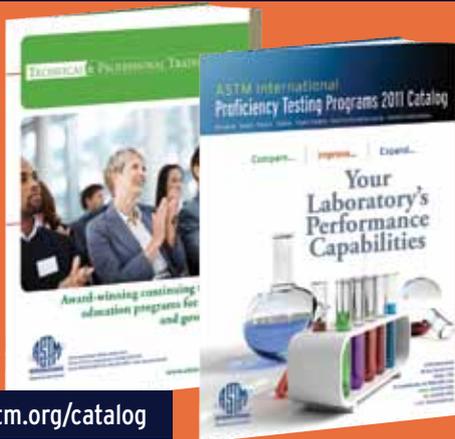
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For over a century, ASTM standards have been used worldwide to improve quality, safety, and design. Developed by more than 30,000 experts from over 100 countries, ASTM's 12,000 standards cover nearly 140 industries, including steel, petroleum, building construction, plastics, textiles, and the environment.

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01.03	Steel—Plate, Sheet, Strip, Wire; Stainless Steel Bar	\$221	Feb	\$265	\$530	\$309	\$618	87
01.04	Steel—Structural, Reinforcing, Pressure Vessel, Railway	\$209	Jan	\$251	\$502	\$293	\$586	124
01.05	Steel—Bars, Forgings, Bearing, Chain, Tool	\$229	Jan	\$275	\$550	\$321	\$642	102
01.06	Coated Steel Products	\$225	Feb	\$270	\$540	\$315	\$630	130
01.07	Ships and Marine Technology	\$362	Jan	\$434	\$868	\$507	\$1,014	171
01.08	Fasteners; Rolling Element Bearings	\$216	Jan	\$259	\$518	\$302	\$604	95
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02.02	Aluminum and Magnesium Alloys	\$236	Sept	\$283	\$566	\$330	\$660	87
02.03	Electrical Conductors	\$147	May	\$176	\$352	\$206	\$412	84
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	\$292	June	\$350	\$700	\$409	\$818	263
02.05	Metallic and Inorganic Coatings; Metal Powders and Metal Powder Products	\$253	May	\$304	\$608	\$354	\$708	193
<b>SECTION 3—METALS TEST METHODS and ANALYTICAL PROCEDURES (p 7)</b>								
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03.01	Metals—Mechanical Testing; Elevated and Low-Temperature Tests; Metallography	\$309	July	\$371	\$742	\$433	\$866	132
03.02	Corrosion of Metals; Wear and Erosion	\$219	Aug	\$263	\$526	\$307	\$614	127
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04.09	Soil and Rock (II): D5877-Latest	\$305	April	\$366	\$732	\$427	\$854	180
04.10	Wood	\$219	July	\$263	\$526	\$307	\$614	89
04.11	Building Constructions (I): E72-E2110	\$404	Nov	\$485	\$970	\$566	\$1,132	164
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04.13	Geosynthetics	\$172	May	\$206	\$412	\$241	\$482	136
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05.02	Petroleum Products and Lubricants (II): D3711-D6122	\$342	Mar	\$410	\$820	\$479	\$958	214
05.03	Petroleum Products and Lubricants (III): D6138-D6971	\$354	Mar	\$425	\$850	\$496	\$992	125
05.04	Petroleum Products and Lubricants (IV): D6973-Latest	\$421	Mar	\$505	\$1,010	\$589	\$1,178	142
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06.04	Paint— Solvents; Aromatic Hydrocarbons	\$205	Mar	\$246	\$492	\$287	\$574	157

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08.03	Plastics (III): D5117-Latest Reinforced Plastic Piping Systems and Chemical Equipment; Plastic Building Products	\$316	July	\$379	\$758	\$442	\$884	200
08.04	Plastic Piping Systems	\$291	Jan	\$349	\$698	\$407	\$814	222
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09.02	Rubber Products, Industrial—Specifications and Related Test Methods; Gaskets; Tires	\$180	Aug	\$216	\$432	\$252	\$504	127
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13.02	Medical and Surgical Materials and Devices (II): F2502-Latest; Emergency Medical Services; Search and Rescue; Anesthetic and Respiratory Equipment	\$285	Sept	\$342	\$684	\$399	\$798	179
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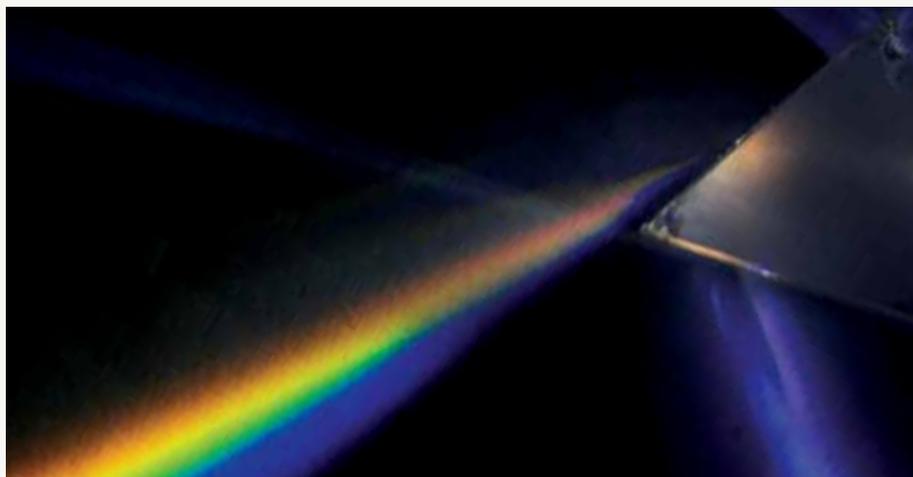
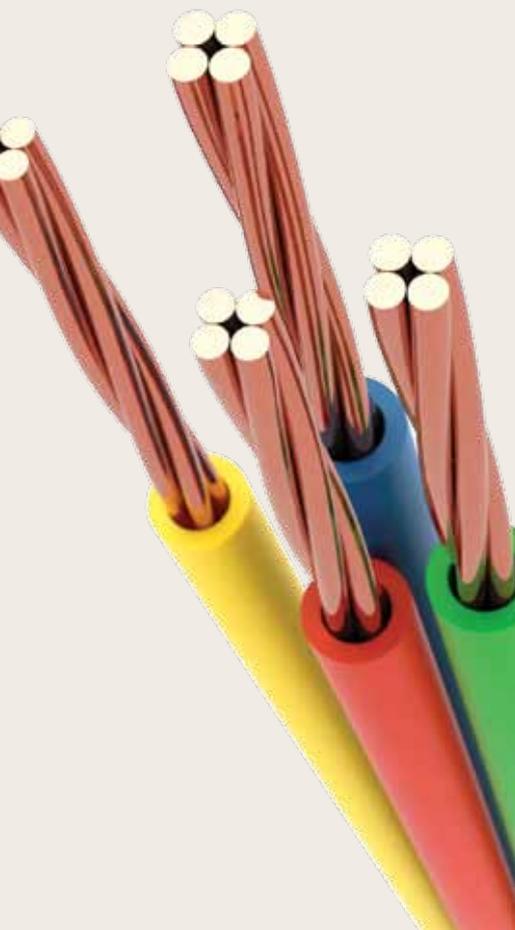
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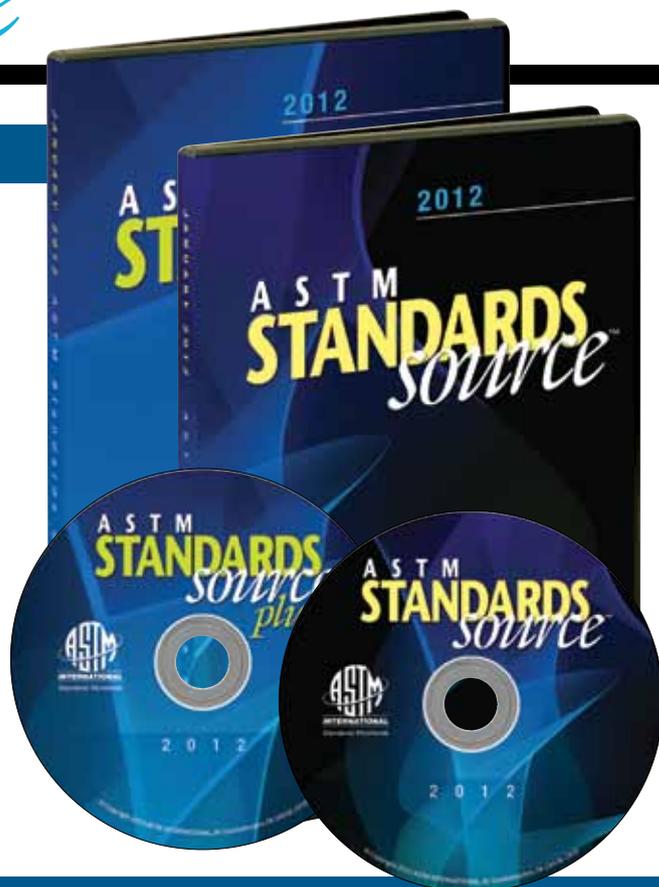
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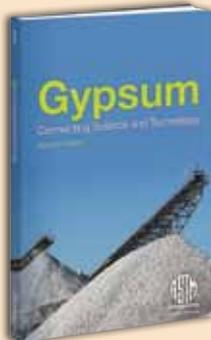
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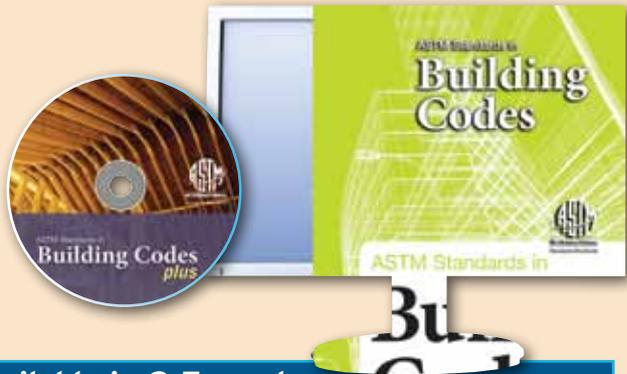
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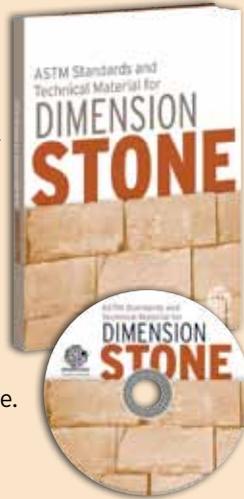
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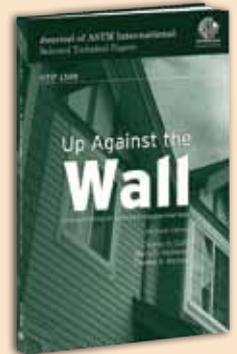
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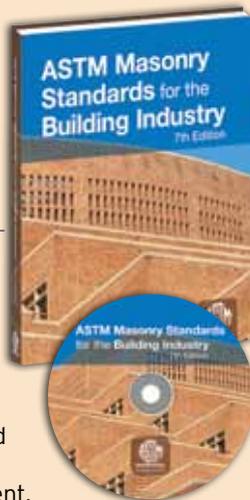
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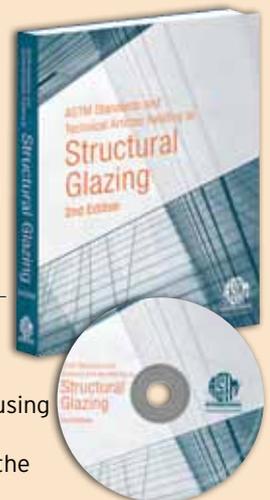
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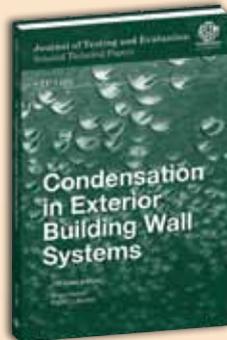
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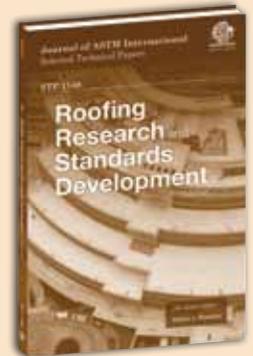
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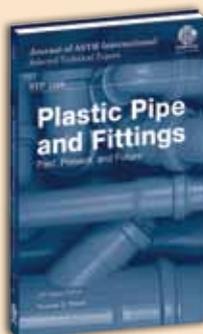
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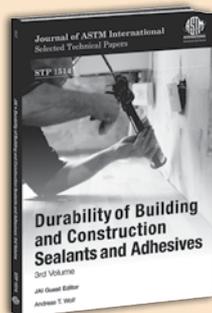
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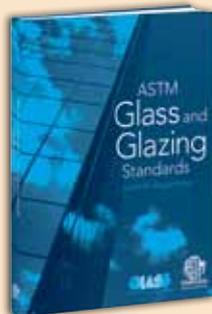
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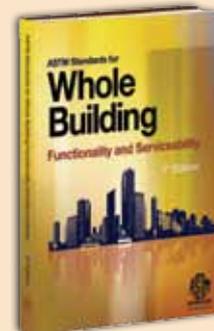
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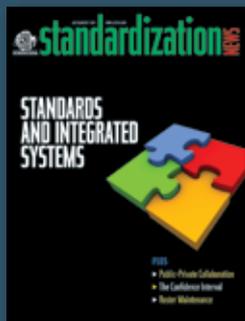
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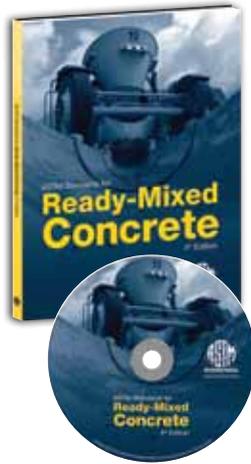
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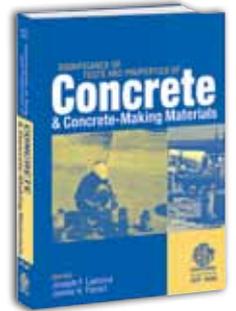
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Manual 49

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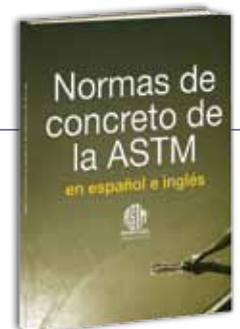
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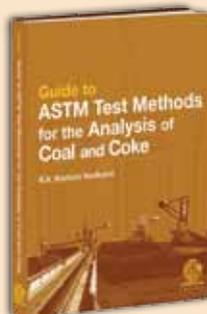
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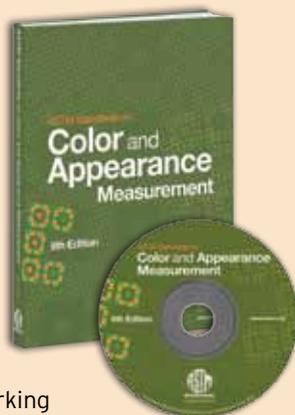
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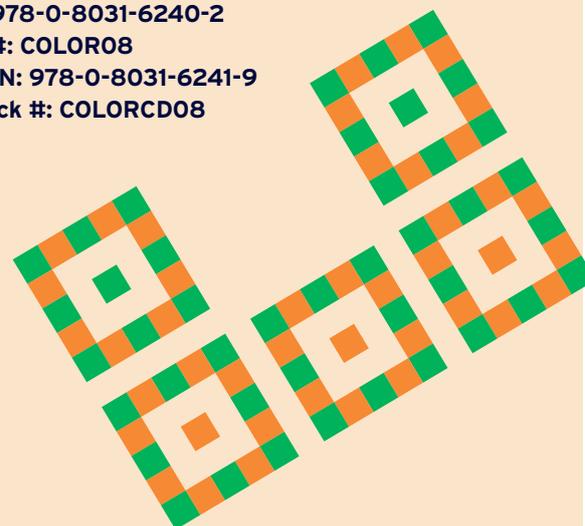
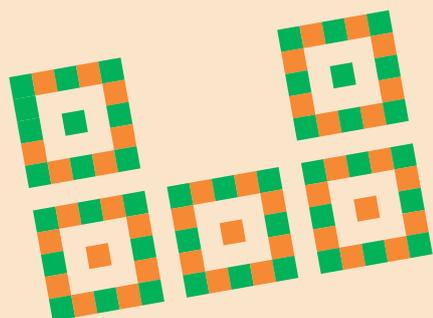
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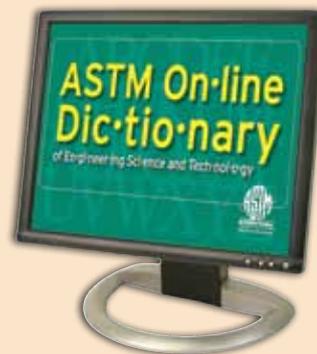
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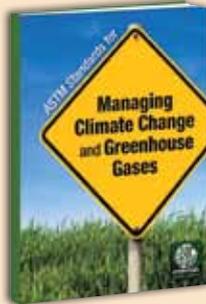


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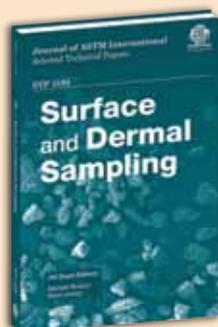
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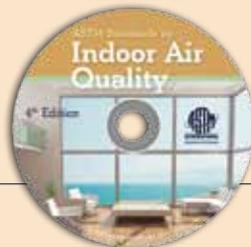
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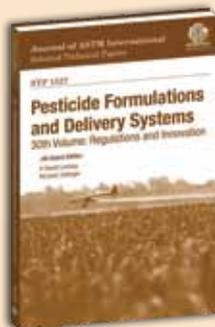
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Manual 43

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Authors: Z. Hejzlar, J.R. Worlund

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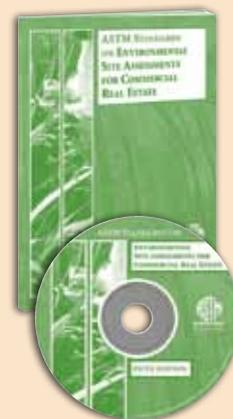
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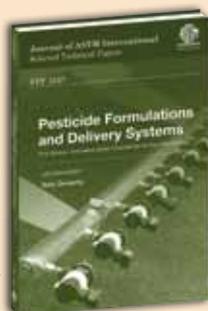
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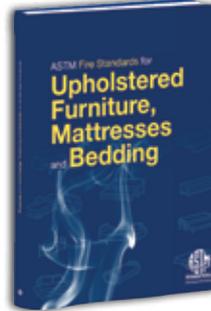
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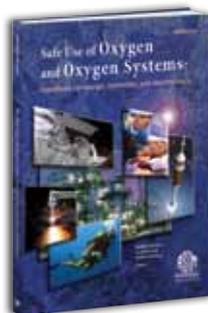


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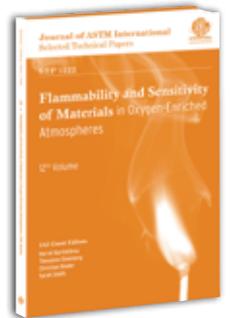
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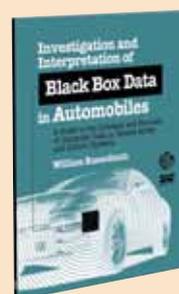
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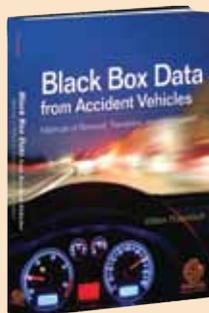
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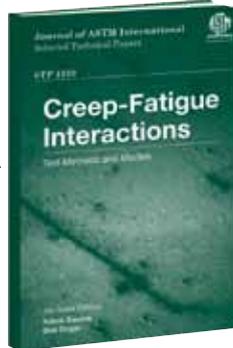
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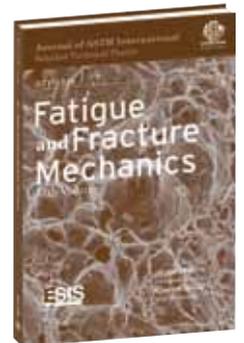
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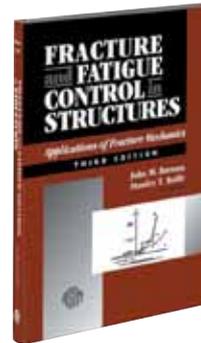
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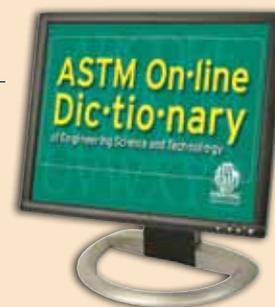


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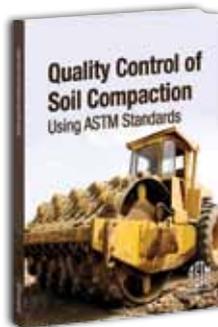
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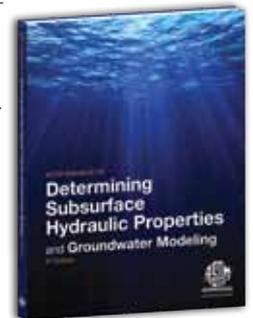
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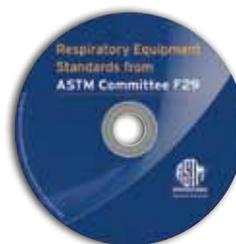
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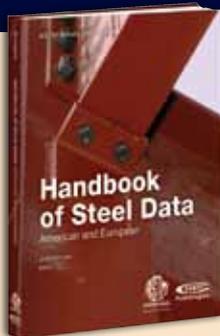
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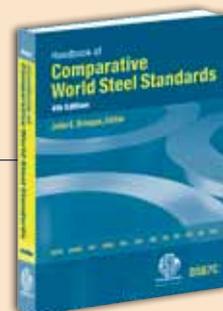
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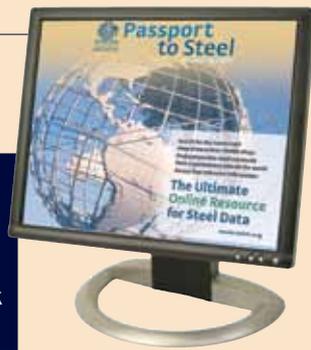
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Manual 64

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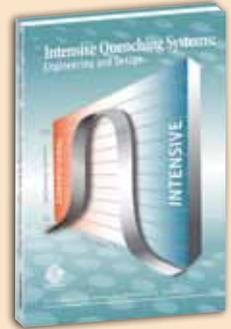
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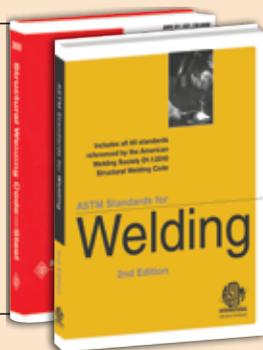
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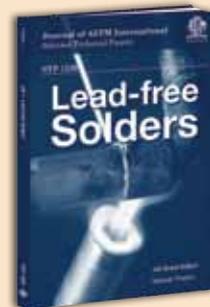
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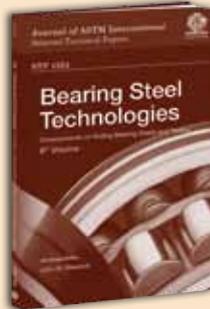
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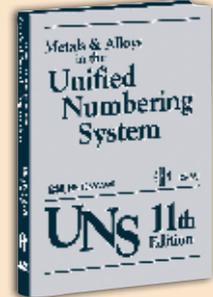
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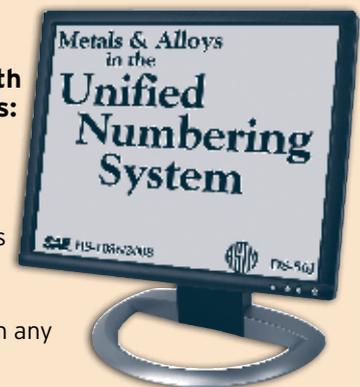
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Centerline Shrinkage and Clustered Gas Holes, each in three thicknesses (1/4 inch, 1/2 inch, and 3/4 inch).

Disk two includes the graded series for Scattered Gas Holes at all three thicknesses as well as graded series of Gas Holes, Less Dense Inclusions and More Dense Inclusions, each illustrated in a single thickness.

Disk three includes graded series of Scattered Shrinkage Cavity for all three thicknesses as well as graded series of Shrinkage Cavity illustrated for 1/2 inch and 3/4 inch material.

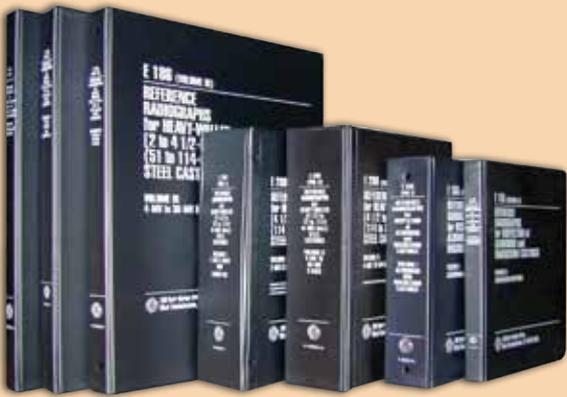
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Disk two includes the graded series for Gas Holes at 3/4 inch and for Dendritic Shrinkage at all three thicknesses.

Disk three includes graded series of Sponge Shrinkage for all three thicknesses as well as graded series of Shrinkage Cavity and Filamentary Shrinkage, both illustrated in 3/4 inch material.

**3 DVD Set; Price: \$690; Single Site User  
Stock #: RRE2660**

For multiple users, contact George Zajdel at (610) 832-9614 or [gzajdel@astm.org](mailto:gzajdel@astm.org)

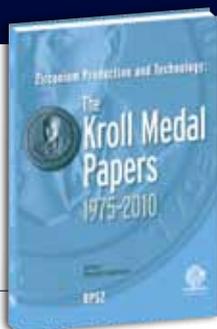
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Retrospective 2



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Papers cover irradiation effects, evolution of the industry, product development, production, and corrosion.

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**Print Stock #: RPS2**

**E-book ISBN: 978-0-8031-8421-3**

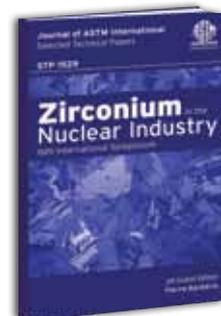
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JAI Guest Editor: P. Barb ris

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## PAINTS and COATINGS

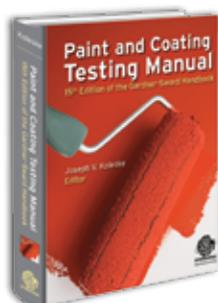
New Edition!



Manual 17

**Paint and Coating Testing Manual 15th Edition of the Gardner-Sward Handbook**

Editor: J.V. Koleske



This edition is a valuable guide to the topics, test methods, procedures, and standards of ASTM and other national and international organizations.

1,000 Pages (2012); Hard Cover: 8.5" x 11"  
 Price: \$325  
 ISBN: 978-0-8031-7017-9  
 Stock #: MNL17-2ND  
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- Plasticizers
- Solvents
- Pigments
- Additives
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- Films for testing
- Optical properties
- Physical and mechanical properties
- Environmental resistance
- Specific product testing
- Analysis of paint and paint defects
- Instrumental analysis
- Specifications
- New coating technologies

*"Having been in the coatings industry for over 30 years, I know how useful the Gardner-Sward Manual can be. For years I have relied on the 14th edition of this fine book to answer many of my paint-testing questions, but a lot has changed in the industry since it was published in 1995. I know a lot of hard work has gone into preparing the new and updated 15th edition, and I am really looking forward to it."*

Dwight Weldon,  
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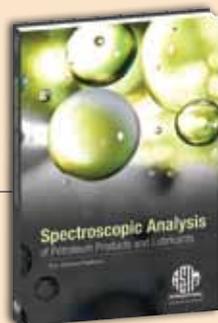
Monograph 9



### Spectroscopic Analysis of Petroleum Products and Lubricants

Editor: R.A. Kishore Nadkarni

The only book available that describes both theory and applicability of numerous spectroscopic techniques used in oil industry laboratories.



**Twenty-four** chapters provide a detailed discussion of the technique fundamentals followed by their application in the oil analysis field. It also includes extensive illustrations of applications of these techniques in the field.

A valuable resource for laboratory practitioners and researchers.

**625 Pages (2011) Hard Cover: 6" x 9"**

**Price: \$197**

**ISBN: 978-0-8031-7020-9**

**Stock #: MON09**

**E-book ISBN: 978-0-8031-8430-5**

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**New!**

Manual 68

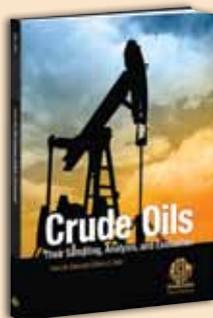


### Crude Oils: Their Sampling, Analysis, and Evaluation

Authors: H.N. Giles, C.O. Mills

This one-of-a kind, comprehensive manual covers a combination of subject materials related to crude oil sampling, quality determination, and evaluation.

It provides an assessment of which test to use when several options exist and offers a broad scope of information at a level that can be understood by technical and non-technical personnel.



**Eight** chapters deal with:

- Obtaining representative samples for tanks, pipelines, and marine vessels
- Understanding the complex chemistry of crude oils
- Selecting test methods best suited to obtain physical and chemical data
- Issues that may develop during transportation, storage, and refining that may impact product quality
- And much more!

**75 Pages (2010); Soft Cover: 8.5" x 11"**

**Price: \$87**

**ISBN: 978-0-8031-7014-8**

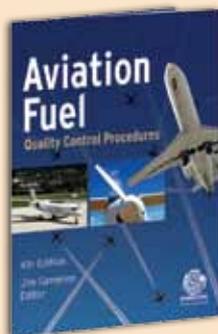
**Stock #: MNL68**

**E-book ISBN: 978-0-8031-8629-3**

**E-book Stock #: MNL68-EB**

Manual 5

## Aviation Fuel Quality Control Procedures 4th Edition



Editor: J. Gammon

This edition, extensively updated, provides a complete explanation of **33** common procedures used by fuel handlers to assess and protect aviation fuel quality.

New to this edition!

- Rewritten API gravity section now includes the latest information on metric density
- Fuel sampling techniques section was improved to keep up with the changes in ASTM D4306
- Revised micro-separometer section
- New and vitally important section on flushing new aviation fuel hoses
- Updated filtration equipment section reflects changes in the industry regarding the API/IP/EI filtration standards
- Completely rewritten section on microbial contamination detection reflects the changes in the oil company and airline industry standards, changes in test equipment, and aircraft maintenance practices
- And much more!

**55 Pages (2009); Soft Cover: 8.5" x 11"**

**Price: \$77**

**ISBN: 978-0-8031-7008-7**

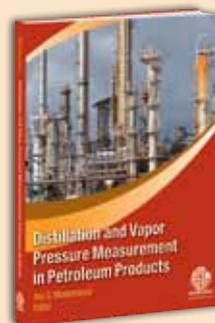
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**E-book ISBN: 978-0-8031-8680-4**

**E-book Stock #: MNL5-4TH-EB**

Manual 51

## Distillation and Vapor Pressure Measurement in Petroleum Products



Author: R.G. Montemayor

This ASTM manual deals with practical information regarding the practice of distillation and vapor pressure measurement of petroleum products, as well as the significance of distillation and vapor pressure data in various petroleum products

**Twelve** comprehensive chapters cover:

- Introduction and brief historical background
- Distillation measurement of atmospheric pressure
- Distillation measurement at reduced pressure
- Simulated distillation measurement
- Vapor pressure measurement
- Online measurement of distillation and vapor pressure
- Distillation and vapor pressure data in crude oil
- And more!

**116 Pages (2008); Soft Cover: 8.5" x 11"**

**Price: \$87**

**ISBN: 978-0-8031-6227-3**

**Stock #: MNL51**

**E-book ISBN: 978-0-8031-6737-7**

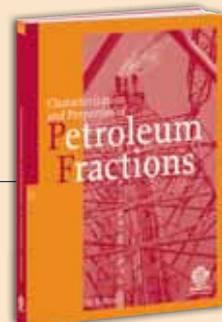
**E-book Stock #: MNL51-EB**

## Second Printing!



Manual 50

## Characterization and Properties of Petroleum Fractions



Author: M.R. Riazi

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.

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**Nine comprehensive chapters cover:**

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- Characterization of petroleum fractions
- Characterization of crude oils and reservoir fluids
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**Price: \$197**

**ISBN: 978-0-8031-3361-7**

**Stock #: MNL50**

**E-book ISBN: 978-0-8031-4558-0**

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## PETROLEUM *continued*

**Winner of the Charles B. Dudley Publication Award!**

Manual 37

### **Fuels and Lubricants Handbook: Technology, Properties, Performance and Testing**

Editor: G. E. Totten

Section Editors: S. R. Westbrook, R. J. Shah

Manual 37 is a comprehensive, in-depth, well-referenced handbook that includes a detailed overview of ALL of the important ASTM and non-ASTM fuels and lubricants test procedures. **Thirty-eight** chapters provide 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 #: MNL37**  
**E-book ISBN: 978-0-8031-4551-1**  
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### **Second Printing!**

Manual 59

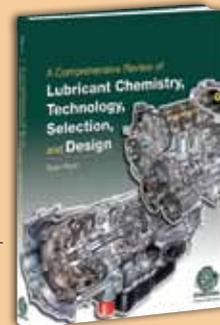
### **A Comprehensive Review of Lubricant Chemistry, Technology, Selection, and Design**

Author: S.Q.A. Rizvi

This unique ASTM manual is written from the perspectives of both chemists and lubrication engineers, and therefore places equal emphasis on the chemistry and the formulation of lubricants. It includes additive technology used in petroleum exploration, refining, and fuels.

Manual 59 complements ASTM's Manual 37 (see column to left) by integrating useful information to lubrication engineers.

**657 Pages (2009); Hard Cover: 8.5" x 11"; Price: \$197**  
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**E-Book ISBN: 978-0-8031-6831-2**  
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Monograph 7

### **Physics and Chemistry of Micro-Nanotribology**

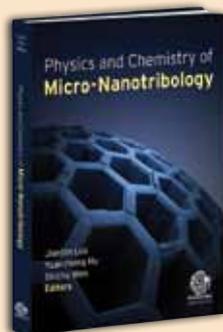
Editors: J. Luo, Y. Hu, S. Wen

Monograph 7 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.

Topics include:

- Experimental methods and measure techniques
- Fluid film lubrication
- Molecular film lubrication
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- Mixed lubrication in nano-scale
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### **New!**

### **ASTM Standards on Lubricant Chemistry**

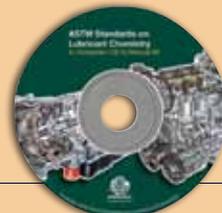
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Get 61 of the most frequently used ASTM standards referenced in Manual 59.

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Adjunct D130

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**New Edition!**



Manual 1

## Significance of Tests for Petroleum Products: 8th Edition

Editor: S.J. Rand

Get the latest analytical procedures and specifications for a vast range of petroleum products. All tests are designed to measure product properties so that the "quality" of that product may be described. This book also cross-references and lists ISO, API, OECD, IP, EPA, DIN, and EPS methods, where applicable.

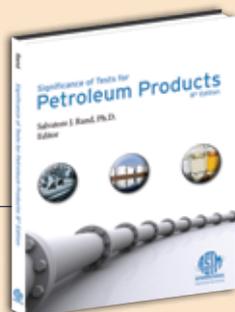
**Twenty-four** comprehensive chapters address sampling techniques, fuel oxygenates, automotive engine oils, lubricant base fluids, and more.

New to this edition:

- All chapters\* have been updated to reflect new specifications and testing methods
- 3 new chapters have been added to more fully reflect today's new products and new test procedures: Biodiesel Fuels, Synthetic Fuel Oils, and Determination of Inorganic Species in Petroleum Products

\*With the exception of Chapter 21 on Environmental Testing of Petroleum Products since test procedures and protocols have been essentially unchanged since the last edition.

**350 Pages (2010); Soft Cover: 8.5" x 11"; Price: \$117**  
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**E-book ISBN: 978-0-8031-8422-0**  
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Adjunct D1250 on CD-ROM

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- Expands output to five decimal places
- Performs computations
- Compensates for pressure (as optional component of VCF)
- Expands temperature range
- Prints tables by their range of interest

This is the electronic version of the adjunct to ASTM D1250 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.

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\* Individual Workstation



**New!**

STP 1477

## Biofuels

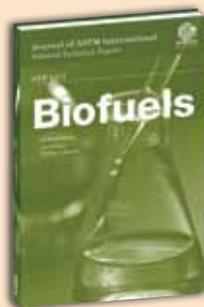


JAI Guest Editors: L. Honary, C. Conconi

**Thirty-seven** peer-reviewed papers cover many unique and comprehensive areas of biofuels. Topics are widely varied and include, the use of industrial crops and algae, enhancing existing esterification processes, and new advancements.

**633 Pages (2011); Soft Cover: 6" x 9"**  
**Price: \$151**

**ISBN: 978-0-8031-3411-9; Stock #: STP1477**  
**E-book ISBN: 978-0-8031-8677-4**  
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Adjunct to D1250-08 on CD-ROM

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These intraconversion tables are applicable to all crude oils, petroleum products, and petrochemicals. These standards are intended for application to bulk liquid quantities.

Part 1—Conversions of API Gravity at 60 degrees F  
 Part 2—Conversions for Relative Density (60/60 degrees F)  
 Part 3—Conversions for Absolute Density at 15 degrees C

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\* Individual Workstation

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## PETROLEUM *continued*

ASTM D1250 Adjunct – Print

### 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**  
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#### 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**

#### Volume III:

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

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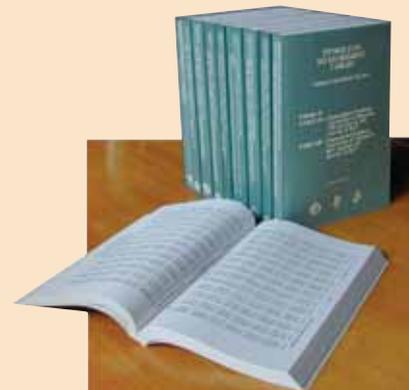
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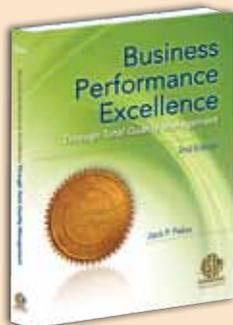
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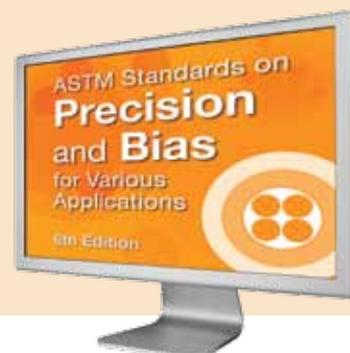
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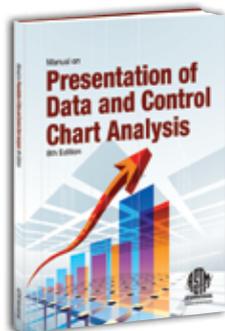


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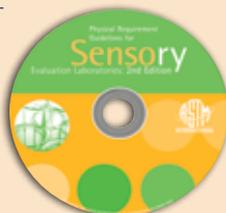
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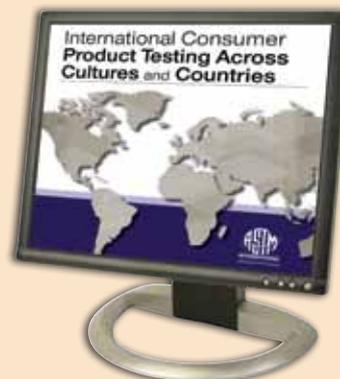
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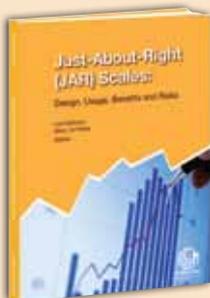
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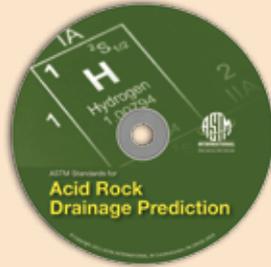
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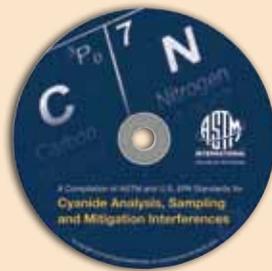


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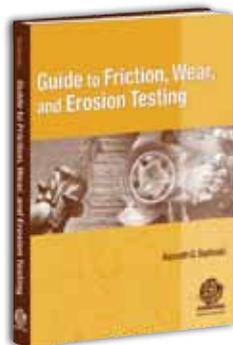
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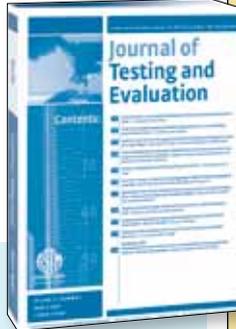
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