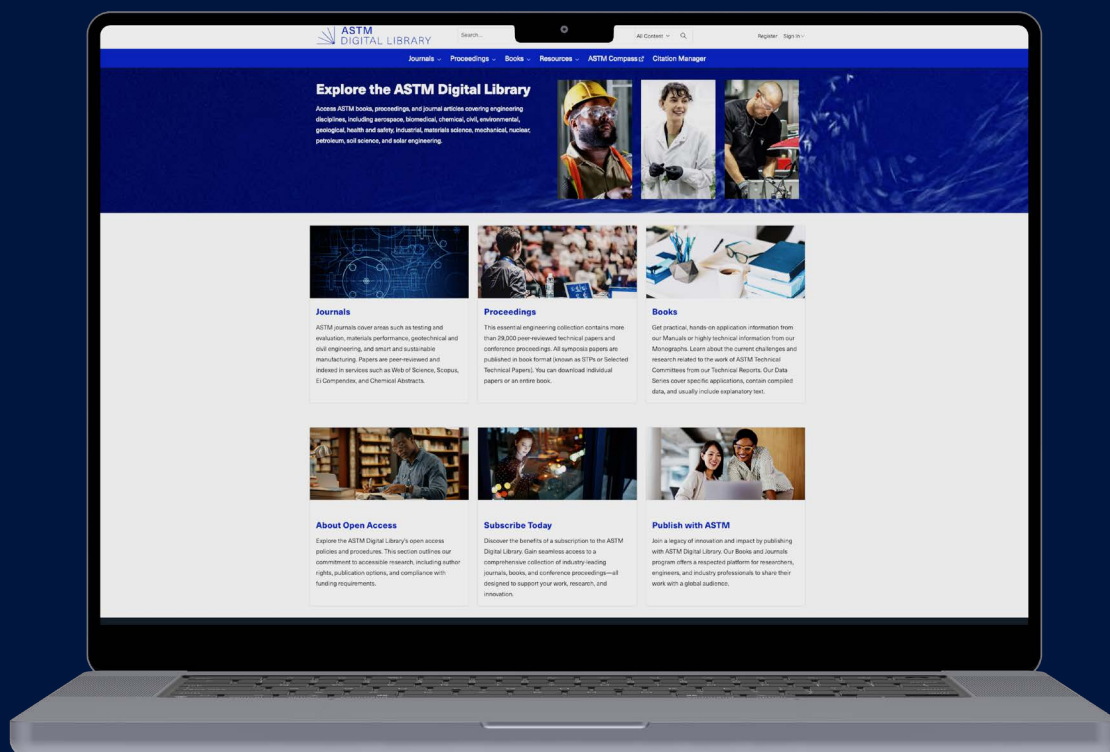


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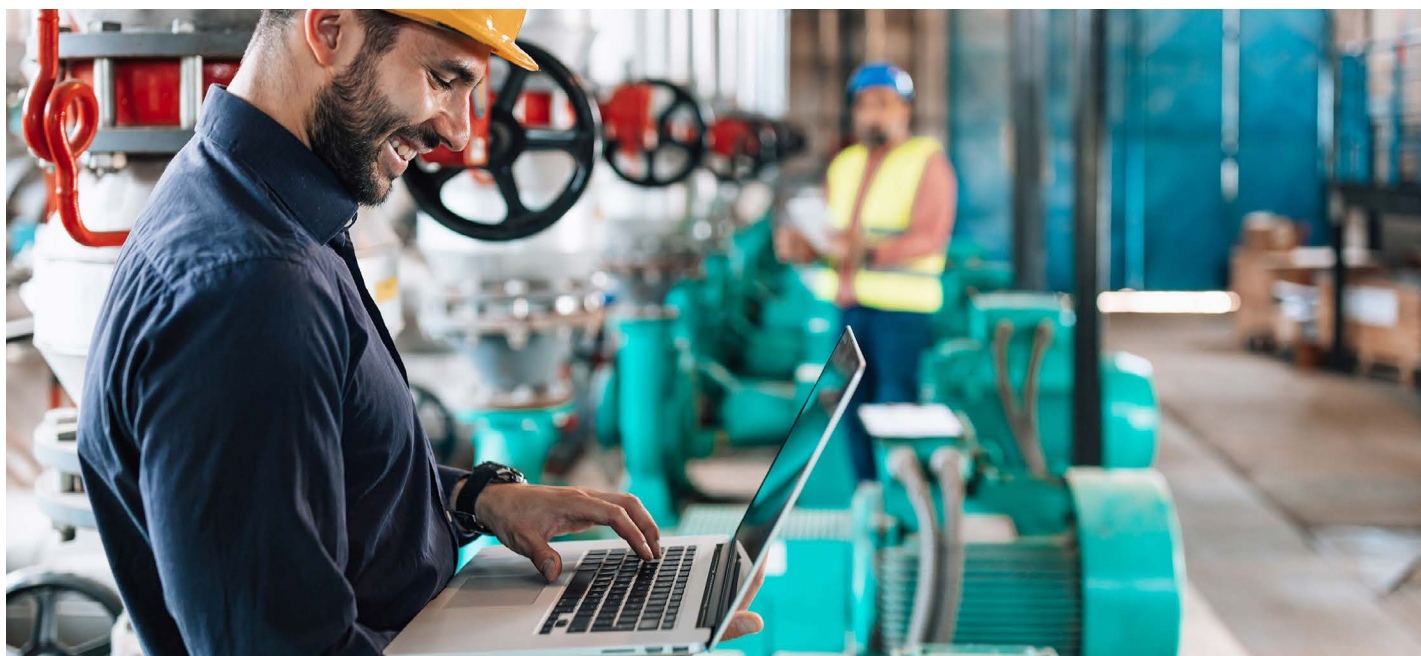
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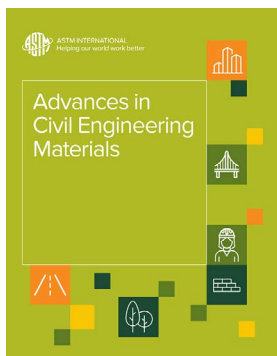
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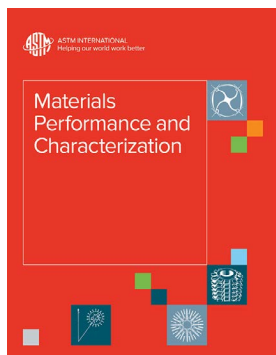
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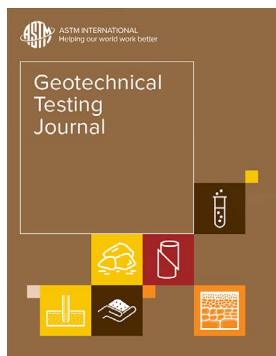
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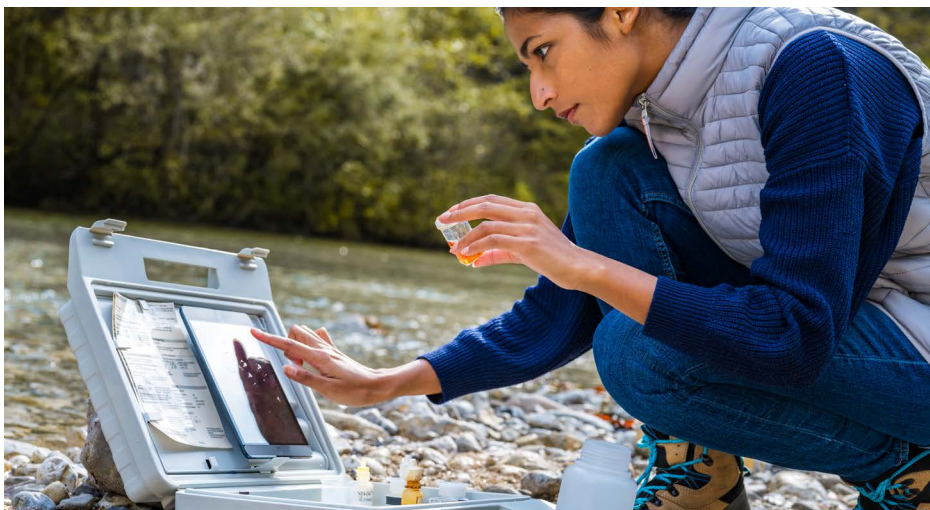
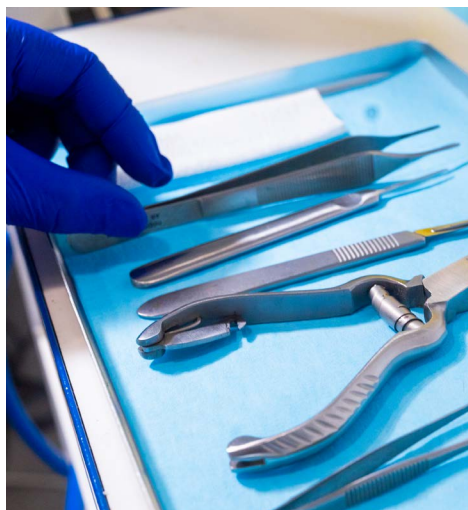
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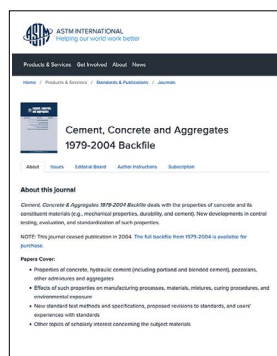
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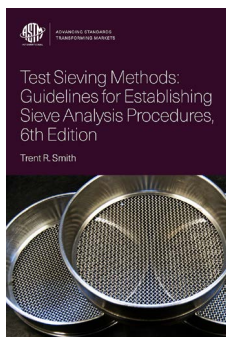
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72 pages; price \$100.00
DOI: 10.1520/MNL32-6TH-EB
ISBN-EB: 978-0-8031-7169-5
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MNL32

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This comprehensive manual is an essential guide to conducting accurate and consistent sieve analyses, crucial for determining the particle size distribution of granular materials. These measurements directly impact product quality, performance, and compliance in industries ranging from construction and civil engineering to food processing and pharmaceuticals.

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In addition to complementing ASTM E29 (Particle and Spray Characterization), this manual supports standards developed by more than 20 ASTM technical committees, including A01 (Steel, Stainless Steel and Related Alloys), C09 (Concrete and Concrete Aggregates), D18 (Soil and Rock), D22 (Air Quality), and F08 (Sports Equipment, Playing Surfaces, and Facilities), among others.



Developed by Committee E08
200 pages; price \$125.00
DOI: 10.1520/STP1654-EB
ISBN-EB: 978-0-8031-7758-1
ISBN-13: 978-0-8031-7757-4

STP1654

APPLICATION OF AUTOMATION TECHNOLOGY AND ADVANCED ANALYSIS TECHNIQUES IN FATIGUE AND FRACTURE TESTING: 7TH VOLUME

This symposium was the latest in a long series of technical meetings focused on developing the laboratory tools to both perform as well as analyze a fatigue and fracture test. ASTM Committee E08 on Fatigue and Fracture (and its predecessors E9 on Fatigue and E24 on Fracture) has a rich history of technical meetings over the past 50 years related to laboratory automation.

The nine technical papers included in this STP are varied in scope and application. One particular focus is the new SDAR (slope determination by the analysis of residuals) method for automatically determining the optimal linear slope of a set of x-y data without requiring user input. This method was originally published in 2018, and this symposium represents one of the first technical meetings for reports on user experience and documentation of the development of the analysis technique.

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Developed by Committee F49
120 pages; price: \$70.00
DOI: 10.1520/TR5-EB
ISBN-EB: 978-0-8031-7167-1
ISBN 13: to Come

Technical Report

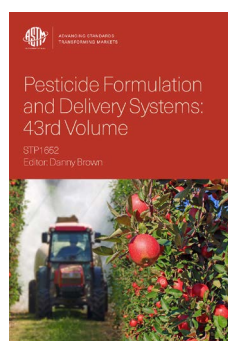
RESOLVING DATA LANGUAGE BARRIERS ACROSS MARITIME STANDARDS VOCABULARIES

This ASTM Technical Report provides critical insights to standardizing maritime and supply chain terminology for seamless global trade.

In April 2023, the Federal Maritime Commission (FMC) released the Recommendations on the Maritime Transportation Data System Requirements, investigating disruptions in cargo movement through U.S. ports. A key outcome of this initiative was the MTDI Lexicon, a collection of 200 essential terms aimed at improving regulatory clarity and communication among stakeholders in maritime logistics.

Recognizing the need for further refinement, ASTM Committee F49 on Digital Information in the Supply Chain conducted a comprehensive review, aligning the MTDI Lexicon with industry-leading terminology standards. By analyzing over 40 established glossaries from major supply chain and logistics organizations, this report resolves language barriers and enhances interoperability across industries.

This Phase 1 report (ASTM Work Item WK87215) provides critical insights for shippers, carriers, regulators, and supply chain professionals, ensuring a unified language that drives efficiency in global trade.



Developed by Committee: E35
154 pages; price \$85.00
DOI: 10.1520/STP1652-EB
ISBN-EB: 978-0-8031-7752-9
ISBN-13: 978-0-8031-7751-2

STP1652

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- Polymeric dispersant synergy in suspension concentrate formulations
- Soil surfactant performance in sand-based turf systems
- Renewable-source adjuvants for aerial spraying

This collection provides applied research insights for formulation chemists, agricultural engineers, application technologists, and environmental risk specialists working to optimize pesticide delivery and performance.

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TR1-EB — Autonomy Design and Operations in Aviation: Terminology and Requirements Framework

TR2-EB — Developmental Pillars for Increased Autonomy for Aircraft Systems

TR3-EB — Regulatory Barriers to Autonomy in Aviation

ENERGY AND FUELS

TR4-EB — Methodology Used to Update the Gasoline Volatility Schedule for U.S. Seasonal and Geographic Classes

MARITIME AND DATA INTEROPERABILITY

TR5-EB — Resolving Data Language Barriers Across Maritime Standards Vocabularies

ASTM Committees and Designations

A. FERROUS METALS

- A01** Steel, Stainless Steel and Related Alloys
- A04** Iron Castings
- A05** Metallic-Coated Iron and Steel Products
- A06** Magnetic Properties

B. NONFERROUS METALS

- B01** Electrical Conductors
- B02** Nonferrous Metals and Alloys
- B05** Copper and Copper Alloys
- B07** Light Metals and Alloys
- B08** Metallic and Inorganic Coatings
- B09** Metal Powders and Metal Powder Products
- B10** Reactive and Refractory Metals and Alloys

C. CEMENTITIOUS, CERAMIC, CONCRETE AND MASONRY MATERIALS

- C01** Cement
- C04** Vitrified Clay Pipe
- C07** Lime and Limestone
- C08** Refractories
- C09** Concrete and Concrete Aggregates
- C11** Gypsum and Related Building Materials and Systems
- C13** Concrete Pipe
- C14** Glass and Glass Products
- C15** Masonry - Manufactured Masonry Units, Mortars and Grouts
- C16** Thermal Insulation
- C17** Fiber-Reinforced Cement Products
- C18** Dimension Stone

- C21** Ceramic Whitewares and Related Products
- C24** Building Seals and Sealants
- C26** Nuclear Fuel Cycle
- C27** Precast Concrete Products
- C28** Advanced Ceramics

D. MISCELLANEOUS MATERIALS

- D01** Paint and Related Coatings, Materials, and Applications
- D02** Petroleum Products, Liquid Fuels, and Lubricants
- D03** Gaseous Fuels
- D04** Road and Paving Materials
- D05** Coal and Coke
- D06** Paper and Paper Products
- D07** Wood
- D08** Roofing and Waterproofing
- D09** Electrical and Electronic Insulating Materials
- D10** Packaging
- D11** Rubber and Rubber-like Materials
- D12** Soaps and Other Detergents
- D13** Textiles
- D14** Adhesives
- D15** Engine Coolants and Related Fluids
- D16** Aromatic, Industrial, Specialty and Related Chemicals
- D18** Soil and Rock
- D19** Water
- D20** Plastics
- D21** Polishes
- D22** Air Quality
- D24** Carbon Black
- D26** Halogenated Organic Solvents

- and Fire Extinguishing Agents
- D27** Electrical Insulating Liquids and Gases
- D28** Activated Carbon
- D30** Composite Materials
- D31** Leather
- D32** Catalysts
- D33** Protective Coating and Lining Work for Power Generation Facilities
- D34** Waste Management
- D35** Geosynthetics
- D36** Recovered Carbon Black (rCB)
- D37** Cannabis and Hemp

E. MISCELLANEOUS SUBJECTS

- E01** Analytical Chemistry for Metals, Ores and Related Materials
- E04** Metallography
- E05** Fire Standards
- E06** Performance of Buildings
- E07** Nondestructive Testing
- E08** Fatigue and Fracture
- E10** Nuclear Technology and Applications
- E11** Quality and Statistics
- E12** Color and Appearance
- E13** Molecular Spectroscopy and Separation Science
- E17** Vehicle - Pavement Systems
- E18** Sensory Evaluation
- E20** Temperature Measurement
- E21** Space Simulation and Applications of Space Technology
- E27** Hazard Potential of Chemicals
- E28** Mechanical Testing
- E29** Particle and Spray

ASTM Committees and Designations

Characterization

- E30** Forensic Sciences
- E31** Healthcare Informatics
- E33** Building and Environmental Acoustics
- E34** Occupational Health and Safety
- E35** Pesticides, Antimicrobials and Alternative Control Agents
- E36** Accreditation and Certification
- E37** Thermal Measurements
- E41** Laboratory Apparatus
- E42** Surface Analysis
- E43** SI Practice
- E44** Solar, Geothermal and Other Alternative Energy Sources
- E48** Bioenergy and Industrial Chemicals from Biomass
- E50** Environmental Assessment, Risk Management, and Corrective Action
- E52** Forensic Psychophysiology
- E53** Asset Management
- E54** Homeland Security Applications
- E55** Manufacture of Pharmaceutical and Biopharmaceutical Products
- E56** Nanotechnology
- E57** 3D Imaging System
- E58** Forensic Engineering
- E60** Sustainability
- E61** Radiation Processing
- E62** Industrial Biotechnology and Synthetic Biology
- E63** Human Resource Management
- E64** Stormwater Control Measures

F. MATERIALS FOR SPECIFIC APPLICATIONS

- F02** Primary Barrier Packaging
- F03** Gaskets
- F04** Medical and Surgical Materials and Devices
- F06** Resilient Floor Coverings
- F07** Aerospace and Aircraft
- F08** Sports Equipment, Playing Surfaces, and Facilities
- F09** Tires
- F10** Livestock, Meat, and Poultry Evaluation Systems
- F11** Vacuum Cleaners
- F12** Security Systems and Equipment
- F13** Pedestrian/Walkway Safety and Footwear
- F14** Fences
- F15** Consumer Products
- F16** Fasteners
- F17** Plastic Piping Systems
- F18** Electrical Protective Equipment for Workers
- F20** Hazardous Substances and Oil Spill Response
- F23** Personal Protective Clothing and Equipment
- F24** Amusement Rides and Devices
- F25** Ships and Marine Technology
- F26** Food Service Equipment
- F27** Snow and Water Sports
- F32** Search and Rescue
- F33** Detention and Correctional Facilities
- F34** Rolling Element Bearings
- F36** Technology and Underground Utilities
- F37** Light Sport Aircraft
- F38** Unmanned Aircraft Systems

- F39** Aircraft Systems
- F41** Unmanned Maritime Vehicle Systems (UMVS)
- F42** Additive Manufacturing Technologies
- F43** Language Services and Products
- F44** General Aviation Aircraft
- F45** Robotics, Automation, and Autonomous System
- F46** Aerospace Personnel
- F47** Commercial Spaceflight
- F49** Digital Information in the Supply Chain
- F48** Exoskeletons and Exosuits

G. CORROSION, DETERIORATION, AND DEGRADATION OF MATERIALS

- G01** Corrosion of Metals
- G02** Tribology of Solid Materials
- G03** Weathering and Durability
- G04** Compatibility and Sensitivity of Materials in Oxygen Enriched Atmospheres

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