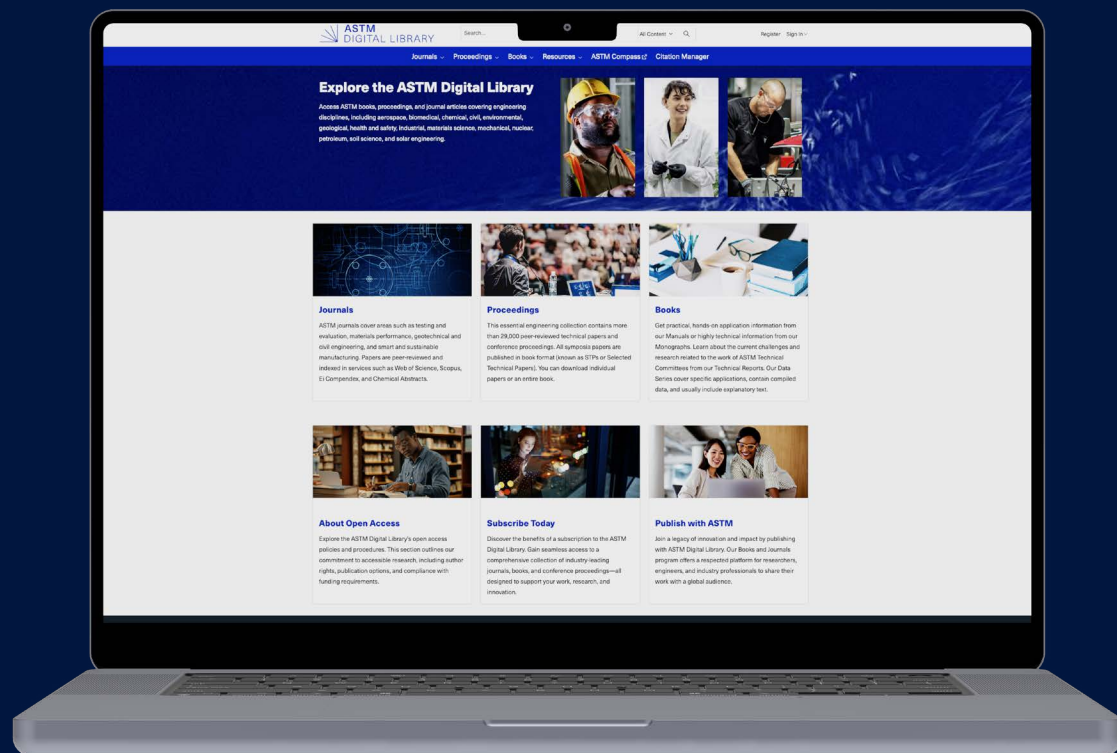


# Explore. Learn. Innovate.

2026 Catalog for *ASTM Journals,*  
*Books, and Proceedings/*  
*Selected Technical Papers*

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# Why Customers Choose the ASTM Digital Library

## AUTHORITY AND CREDIBILITY

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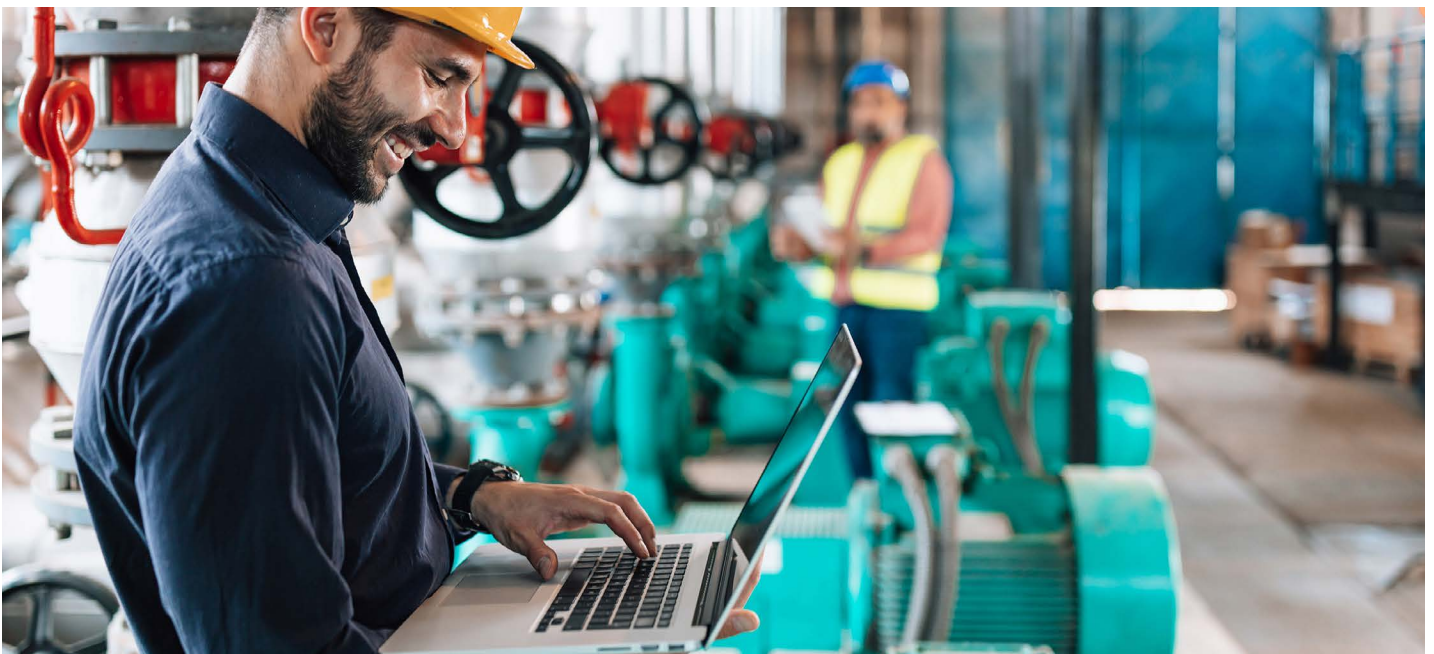
## PLATFORM AND PERFORMANCE

Powerful discovery and intuitive navigation across content types. Reliable, scalable delivery on a proven scholarly platform. Accessibility-aligned design and enterprise readiness. COUNTER-compliant usage reporting to support ROI and measurable impact.



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## ACADEMIC INSTITUTIONS

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- Aligns with accreditation and scholarly standards



### Value

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- Validates design decisions and material selection
- Supports compliance and risk mitigation
- Provides applied research to accelerate innovation



### Value

Reduces risk and shortens development cycles.

## GOVERNMENT AND REGULATORY BODIES

- Informs standards-based policymaking
- Supports infrastructure, safety, and public works research
- Provides authoritative technical reference



### Value

Enables confident, standards-informed decisions.

## LABORATORIES AND TESTING FACILITIES

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- Supports quality assurance and reporting



### Value

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# Built for a Global Research Community

## GLOBAL USAGE HIGHLIGHTS

- Active usage across six continents
- Strong engagement in leading markets across North America, Europe, and Asia
- Expanding usage across Latin America, the Middle East, and Southeast Asia
- Diverse global audience of researchers, engineers, and industry professionals
- Supporting real-world applications across industries and international markets

A global audience,  
powered by a  
global community  
of contributors



## GLOBAL AUTHOR HIGHLIGHTS

- Contributions from authors across six continents
- Strong representation from leading research hubs in North America, Europe, and Asia
- Growing authorship across Latin America, the Middle East, and Southeast Asia
- Diverse perspectives from a global network of subject matter experts and innovators
- Content shaped by professionals addressing real-world challenges across international markets



# Explore Our Content Portfolio

## **JOURNALS**

Peer-reviewed research journals covering materials science, testing methodologies, infrastructure, energy systems, environmental technologies, and emerging engineering fields

## **CONFERENCE PROCEEDINGS (STPs)**

Curated technical papers from ASTM-sponsored symposia and industry events

## **MANUALS**

In-depth technical references delivering practical guidance and proven methodologies

## **MONOGRAPHS**

Focused research volumes exploring specialized technical topics

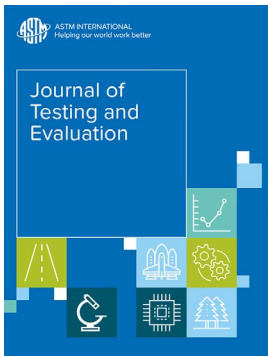
## **DATA SERIES**

Publications that focus on specific applications, presenting curated and compiled datasets accompanied by explanatory context to support interpretation and use

## **TECHNICAL REPORTS**

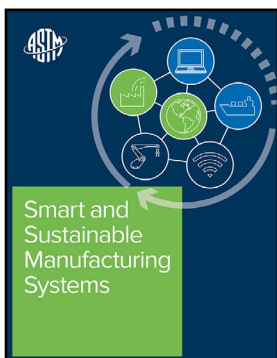
Gain insights from research conducted by ASTM technical committees, including access to data, expert recommendations, and key conclusions derived from their work.

# Explore ASTM Journals



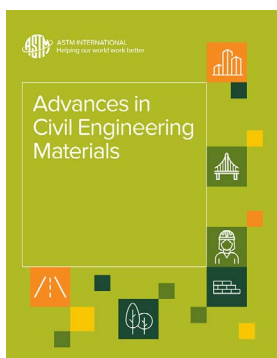
## JOURNAL OF TESTING AND EVALUATION

- Published online bimonthly (six issues per year)
- Multidisciplinary forum for applied science and engineering
- Covers fatigue, fracture, creep, mechanical and fire testing
- Includes research on polymers, metallics, soils, wood, additive manufacturing, and construction materials
- New technical information, derived from field and laboratory testing, on the performance, quantitative characterization, and evaluation of materials.
- New methods and data along with critical evaluations; report users' experience with test methods and results of interlaboratory testing and analysis; and stimulate new ideas in the fields of testing and evaluation.



## SMART AND SUSTAINABLE MANUFACTURING SYSTEMS

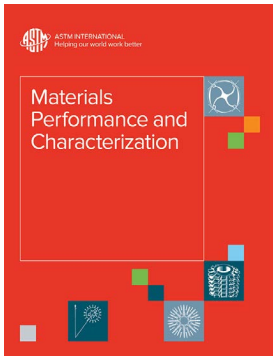
- Published online continuously with one annual volume; includes Special Issues on emerging topics.
- Publishes transdisciplinary research across information science, systems engineering, and manufacturing design
- Focuses on advancing smarter, more sustainable manufacturing systems
- Covers advanced manufacturing, energy, and materials for production
- Addresses digitization of products, processes, and assets for integrated optimization
- Explores measurement science, standards, protocols, and cyber-physical manufacturing infrastructure
- Supports design, analysis, and control of next-generation manufacturing systems



## ADVANCES IN CIVIL ENGINEERING MATERIALS

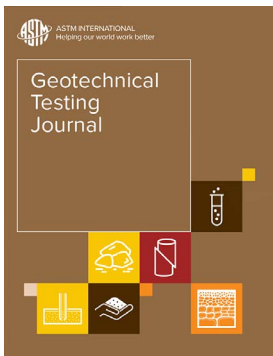
- Published online continuously with one annual volume; includes Special Issues on emerging topics
- Covers properties and performance of civil engineering materials including concrete, asphalt, steel, polymers, composites, wood, and soils
- Addresses materials used in pavements, bridges, buildings, and environmental systems
- Focuses on materials characterization, mechanical performance, and constructability
- Explores durability, sustainability, climate resilience, and life cycle assessment
- Includes research on quality assurance, code acceptance, and policy implications
- Supports infrastructure performance and resilience research

# Explore ASTM Journals



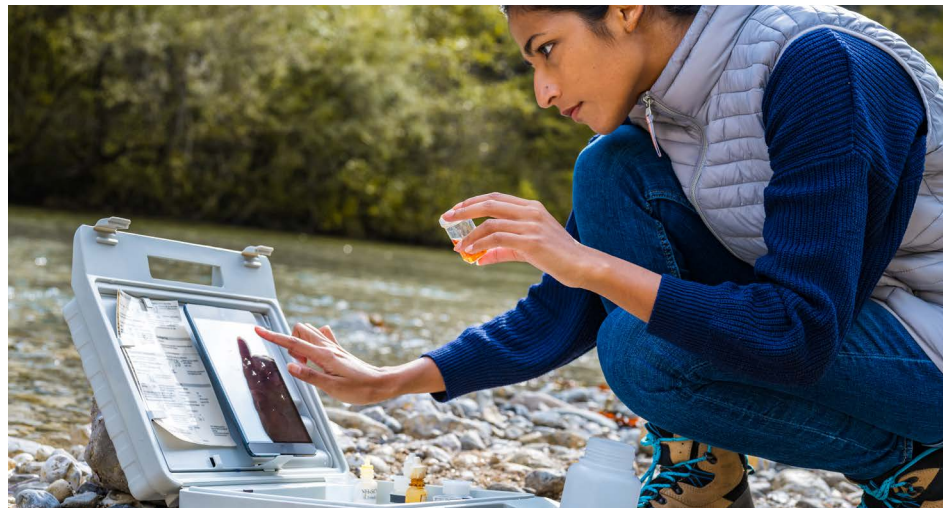
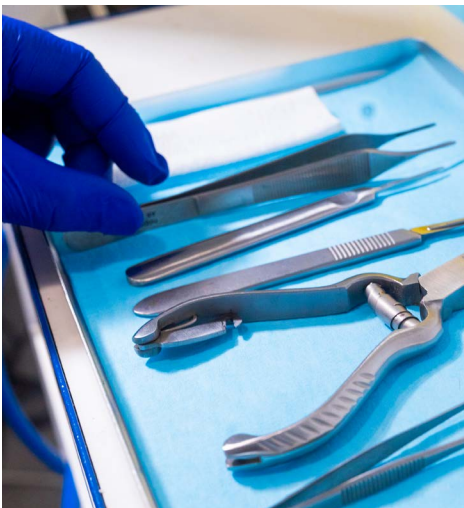
## MATERIALS PERFORMANCE AND CHARACTERIZATION

- Published online continuously in one annual volume; includes Special Issues on emerging topics
- Covers theoretical and applied research on processing, structure, properties, and performance of materials
- Addresses applications in mechanical, transportation, aerospace, energy, and medical device industries
- Includes metals, alloys, ceramics, glass, polymers, composites, textiles, and nanomaterials
- Focuses on fatigue, fracture, creep, corrosion, wear, surface engineering, and extreme environments
- Explores advanced manufacturing, materials characterization, qualification, and system integrity



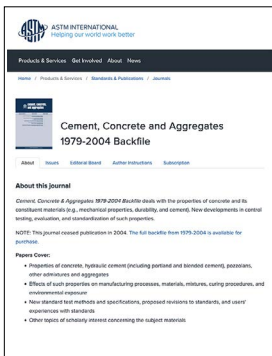
## GEOTECHNICAL TESTING JOURNAL

- Published online six times per year; includes Special Issues on focused topics
- Covers new developments in soil and rock testing for engineering applications
- Provides a forum for advancing test methods and ASTM Committee D18 activities
- Includes research on sampling, nomenclature, property determination, and behavior of soil and rock
- Addresses field and laboratory testing, new equipment, and evaluation of ASTM standards
- Explores related areas including geosynthetics, pavement materials, groundwater, marine sediments, and contaminated soil stabilization



# ASTM Backfile Journal Archives

The **ASTM Digital Library** provides full archival access to select legacy journals. Each backfile includes the complete published run of the journal, offering researchers permanent access to foundational scholarship across engineering, materials science, composites, and forensic sciences.



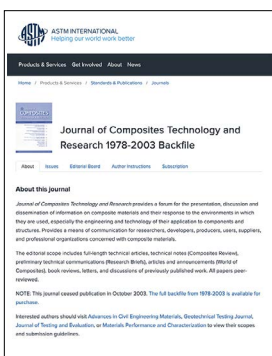
## CEMENT, CONCRETE, AND AGGREGATES (1979–2004)

- Complete archive available (1979–2004)
- Focused on testing, evaluation, and standardization of concrete materials
- Covered aggregates, admixtures, and precast concrete products
- Supported advancements in materials performance and infrastructure durability



## JOURNAL OF ASTM INTERNATIONAL (2004–2012)

- Complete archive available (2004–2012)
- Multidisciplinary forum for engineering and applied sciences
- Published original research and critical reviews
- Addressed physical sciences, life sciences, and engineering technologies



## JOURNAL OF COMPOSITES TECHNOLOGY AND RESEARCH (1978–2003)

- Complete archive available (1978–2003)
- Focused on composite materials and structural applications
- Covered performance in diverse environmental conditions
- Emphasized engineering and applied composite technologies

# ASTM Backfile Journal Archives



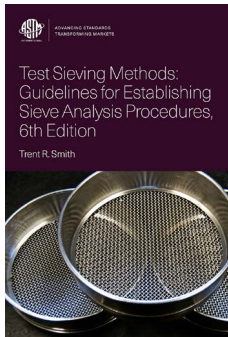
## JOURNAL OF FORENSIC SCIENCES - HISTORICAL BACKFILE (1972-2005)

- Complete archive available (1972-2005)
- Published interdisciplinary forensic science research
- Included pathology, toxicology, psychiatry, criminalistics, and engineering
- Served as a foundational resource for forensic scholarship



# Conference Proceedings (STPs), Manuals, Monographs, Data Series and Technical Reports

RECENTLY PUBLISHED



Developed by Committee E29  
72 pages; price \$100.00  
DOI: 10.1520/MNL32-6TH-EB  
ISBN-EB: 978-0-8031-7169-5  
ISBN-13: 978-0-8031-7168-8

## MNL32

### TEST SIEVING METHODS: GUIDELINES FOR ESTABLISHING SIEVE ANALYSIS PROCEDURES, 6th EDITION

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.

Designed to support both newcomers and experienced professionals, this resource brings together time-tested methods drawn from a broad array of ASTM standards. It serves as both a hands-on instructional tool and a reliable technical reference, ensuring confidence and consistency in your quality control practices.

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

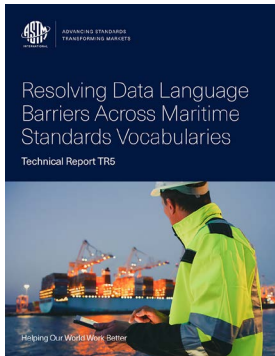
### APPLICATION OF AUTOMATION TECHNOLOGY AND ADVANCED ANALYSIS TECHNIQUES IN FATIGUE AND FRACTURE TESTING: 7<sup>TH</sup> VOLUME

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.

# Conference Proceedings (STPs), Manuals, Monographs, Data Series and Technical Reports

RECENTLY PUBLISHED



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

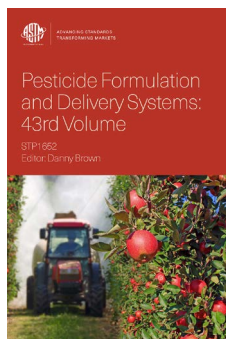
### RESOLVING DATA LANGUAGE BARRIERS ACROSS MARITIME STANDARDS VOCABULARIES

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

### PESTICIDE FORMULATION AND DELIVERY SYSTEMS: 43 VOLUME, CREATING CERTAINTY IN AN UNCERTAIN WORLD

This volume contains nine peer-reviewed papers from a symposium held November 7–9, 2023, in Washington, DC, highlighting advances in formulation science and spray application technologies.

#### Topics include:

- Adjuvant–pesticide formulation interactions and spray quality
- Liquid formulation development of *Bacillus velezensis*
- Diameter-resolved droplet transport in wind tunnel studies
- UAV rotor wash effects on spray atomization and environmental risk
- Drift-reduction performance in dicamba and glyphosate applications
- 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.

# Conference Proceedings (STPs), Manuals, Monographs, Data Series and Technical Reports

UPCOMING

## CONFERENCE PROCEEDINGS

**STP 1657** — The Changing Face of Building Materials and Systems in Response to Climate Change

**STP 1658** — Buried Metal Bridges Symposium

**STP 1660** — 21st International Symposium on Zirconium in the Nuclear Industry

**STP 1661** — Bearing and Transmission Steels Technology, Volume 2

**STP 1662** — Eighteenth International Symposium on Reactor Dosimetry (ISR)

## MANUALS

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**MNL 60** — Physical Requirement Guidelines for Sensory Evaluation Laboratories, 3rd Edition

**MNL 70** — Quality Control of Soil Compaction, 2nd Edition

## TECHNICAL REPORTS

**Technical Report 6** — Facepieces for Hazardous Aerosol Source Control and Personal Protection

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This comprehensive engineering collection features more than 30,000 peer-reviewed technical papers and conference proceedings. Symposium research is published in book form as Selected Technical Papers (STPs), available for download by individual paper or as complete volumes.

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**STP1636-EB** — Standards Development for Cement and Concrete for Use in Additive Construction

**STP1631-EB** — Structural Integrity of Additive Manufactured Materials and Parts

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## NUCLEAR MATERIALS AND RADIATION EFFECTS

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**STP1645-EB** — Zirconium in the Nuclear Industry: 20th International Symposium

**STP1639-EB** — Graphite Testing for Nuclear Applications

**STP1608-EB** — Reactor Dosimetry: 16th International Symposium

**STP1603-EB** — International Review of Nuclear Reactor Pressure Vessel Surveillance Programs

**STP1597-EB** — Zirconium in the Nuclear Industry: 18th International Symposium

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**STP1641-EB** — Pesticide Formulation and Delivery Systems: 41st Volume

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# All Available Conference Proceedings (STPs)

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- STP1635-EB** — Building Science and the Physics of Building Enclosure Performance: 2nd Volume
- STP1628-EB** — Dimension Stone Use in the Built Environment
- STP1615-EB** — Whole Building Air Leakage: Testing and Building Performance Impacts
- STP1601-EB** — Concrete Pipe and Box Culverts

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- STP1526-EB** — Fatigue and Fracture Mechanics: 37th Volume
- STP1508-EB** — Seventh International ASTM/ESIS Symposium on Fatigue and Fracture Mechanics

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- STP1563-EB** — Tribo-Corrosion: Research, Testing, and Applications
- STP1401-EB** — Environmentally Assisted Cracking
- STP1232-EB** — Microbiologically Influenced Corrosion Testing
- STP978-EB** — Galvanic Corrosion

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- MNL3-6TH-EB** — Manual on Hydrocarbon Analysis, 6th Edition
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- MNLTP27-EB** — Manual of Petroleum Measurement Standards, Chapter 11 – Physical Properties Data, Section 2, Part 4

## MATERIALS, METALS, AND FRACTURE MECHANICS

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- MNL27-EB** — Manual on Elastic-Plastic Fracture: Laboratory Test Procedures
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**MNL71-EB** — Safety and Occupational Footwear

**MNL76-EB** — Detention and Correctional Facilities: History and Relevance of ASTM Standards

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**MONO9-EB** — Spectroscopic Analysis of Petroleum Products and Lubricants

**MONO10-EB** — Elemental Analysis of Fossil Fuels and Related Materials

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## TRANSPORTATION AND VEHICLE SYSTEMS

**MONO4-EB** — 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

**MONO5-EB** — Black Box Data from Accident Vehicles: Methods of Retrieval, Translation, and Interpretation

## BIOMEDICAL ENGINEERING

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- DS9E-EB** — Compilation of Chemical Compositions and Rupture Strengths of Superalloys
- DS11-S1-EB** — Evaluation of the Elevated-Temperature Tensile and Creep-Rupture Properties of Wrought Carbon Steel
- DS40-EB** — Elevated-Temperature Properties of Basic-Oxygen Steel
- DS47-EB** — Evaluation of the Elevated-Temperature Tensile and Creep-Rupture Properties of C-Mo, Mn-Mo, and Mn-Mo-Ni Steels
- DS50-EB** — Evaluation of Elevated-Temperature Tensile and Creep-Rupture Properties of Chromium-Molybdenum Steels
- DS58-EB** — Evaluation of Elevated-Temperature Tensile and Creep-Rupture Properties of 3–9% Chromium-Molybdenum Steels
- DS59-EB** — Evaluation of Elevated-Temperature Tensile and Creep-Rupture Properties of 12–27% Chromium Steels
- DS60-EB** — Compilation of Stress-Relaxation Data for Engineering Alloys

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- DS39B-EB** — Viscosity Index Tables for Celsius Temperatures
- DS57-EB** — Low-Temperature Pumpability Characteristics of Engine Oils in Full-Scale Engines
- DS62-EB** — Relationship Between High-Temperature Oil Rheology and Engine Operation

## CHEMICAL AND ANALYTICAL REFERENCE DATA

- DS25A-EB** — Gas Chromatographic Data Compilation
- DS37A-EB** — X-Ray and Absorption Wavelengths and Two-Theta Tables
- DS46-EB** — X-Ray Emission Wavelengths and Kev Tables for Nondiffractive Analysis
- DS48A-EB** — Compilation of Odor and Taste Threshold Values
- DS51HOL-EB** — ASTM Computer Program for Chemical Thermodynamic and Energy Release Evaluation (Cheetah® Version 11.0)

# All Available Data Series

## ENVIRONMENTAL AND ATMOSPHERIC STUDIES

**DS52-EB** — Nuclear Reactor Neutron Energy Spectra

**DS54-EB** — Radiation Effects Information on ASTM Reference Correlation-Monitor Steels

**DS55S1-EB** — Interlaboratory Study on Precision and Accuracy of Sulfur Dioxide Measurement in the Atmosphere

**DS55S4-EB** — Interlaboratory Study on Precision and Accuracy of Dustfall Measurement

**DS55S10-EB** — Interlaboratory Study on Precision and Accuracy of Relative Density of Black Smoke Determination

**DS64-EB** — Cleanup Criteria for Contaminated Soil and Groundwater

**DS65-EB** — Atmospheric Corrosion Investigation of Coated and Copper-Bearing Steel Wire Products

**DS71-EB** — ISOCORRAG International Atmospheric Exposure Program: Summary of Results

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## STANDARDS AND REFERENCE COMPILATIONS

**DS45A-EB** — Compilation and Index of Trade Names, Specifications, and Producers of Stainless Alloys and Superalloys

**DS53A-EB** — List of Fluorescent Whitening Agents for the Soap and Detergent Industry

**DS61-EB** — Atlas of Odor Character Profiles

**DS63-EB** — References and Conference Proceedings Toward the Understanding of Fracture Mechanics

**DS67D-EB** — Handbook of Comparative World Steel Standards, 5th Edition

**DS67C-EB** — Handbook of Comparative World Steel Standards, 4th Edition

**DS68-EB** — Handbook of Reference Data for Nondestructive Testing

# All Available Technical Reports

**ASTM Technical Reports** deliver data-driven findings, expert recommendations, and research conclusions developed by ASTM technical committees. These publications provide insight into current practices, emerging challenges, and technical processes, drawing on ASTM expertise and, where applicable, ISO collaboration.

## ADDITIVE MANUFACTURING (ISO/ASTM TECHNICAL REPORTS)

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**ISO/ASTMTR52952-EB** — Additive Manufacturing of Metals — Feedstock Materials — Correlating Rotating Drum Measurement with Powder Spreadability in PBF-LB Machines

**ISO/ASTMTR52905-EB** — Additive Manufacturing of Metals — Non-Destructive Testing and Evaluation — Defect Detection in Parts

**ISO/ASTMTR52913-EB** — Additive Manufacturing — Feedstock Materials — Part 1: Guidelines for the Selection of Measurement Methods for Characterization of Powder Flow Properties

**ISO/ASTMTR52917-EB** — Additive Manufacturing — Round Robin Testing — General Guidelines

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## AVIATION AND AUTONOMY

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

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## ENERGY AND FUELS

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

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## 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

- 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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