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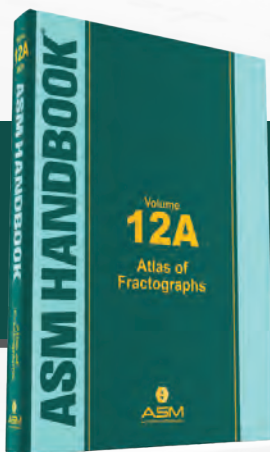
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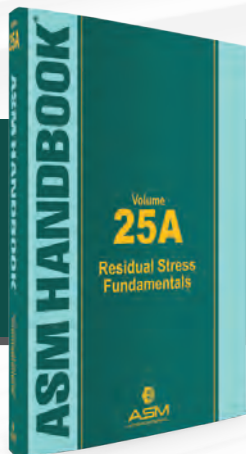
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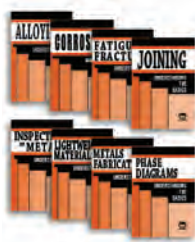
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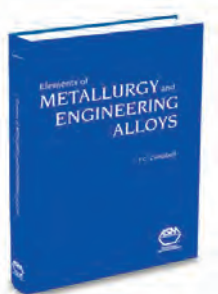
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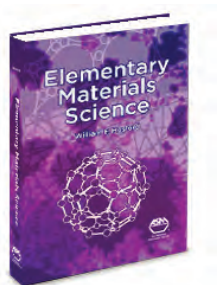
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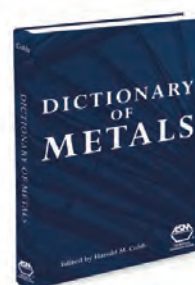
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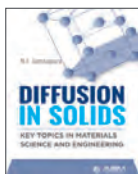
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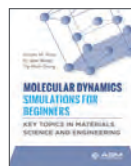
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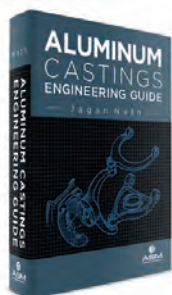
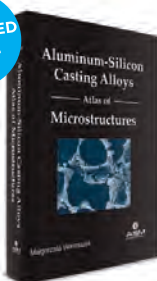
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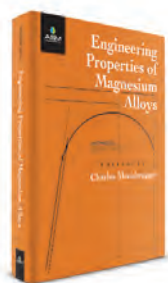
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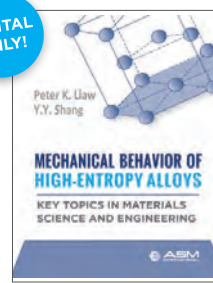


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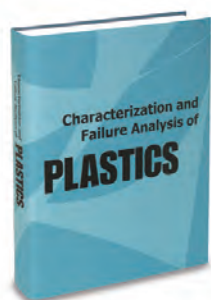
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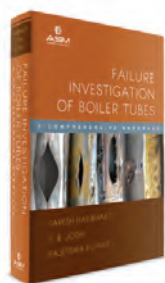
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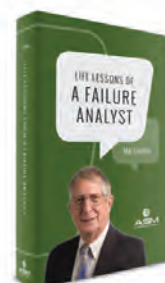
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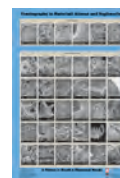
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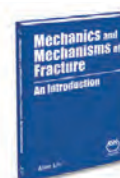
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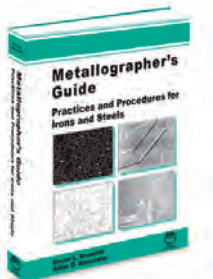


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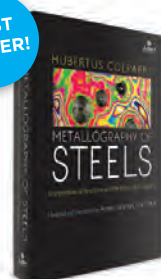
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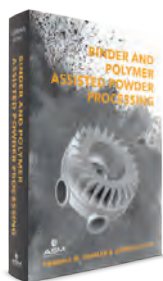
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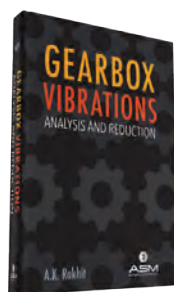
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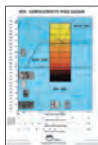
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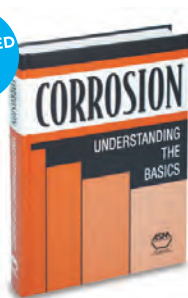
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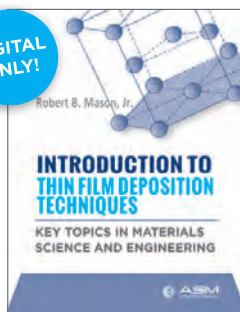
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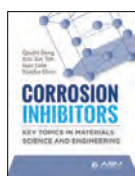
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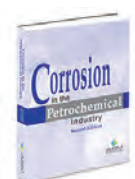


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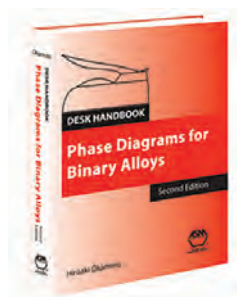


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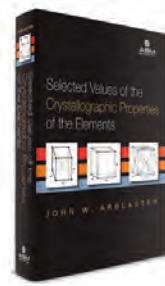
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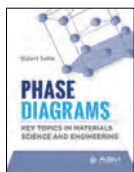
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- Vacuum Heat Treating Additively Manufactured Parts

ALLOYS

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- Aluminum and Its Alloys
- Corrosion
- Stainless Steels
- Superalloys
- Titanium and Its Alloys

SELF-STUDY

- Aluminum and Its Alloys
- Corrosion Superalloys
- Electroplating
- Nickel and Nickel Alloys
- Stainless Steels
- Titanium and Its Alloys

DIGITAL

- Case Hardening of Steel
- Strengthening Mechanisms of Non-Ferrous Alloys

ADDITIVE MANUFACTURING

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- Metal Additive Manufacturing (AM) and Post Processing for Optimized Properties and Performance

SELF-STUDY

- Fundamentals and Applications of Powder Metallurgy

DIGITAL

- Powder Characterization for Metal Additive Manufacturing
- Vacuum Heat Treating Additively Manufactured Parts

MEDICAL DEVICES

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- Nitinol for Medical Devices

SELF-STUDY

- Medical Device Design Validation and Failure Analysis



METALLOGRAPHY

IN PERSON

- Advanced Metallographic Techniques
- Introduction to Metallography
- Mechanical Testing of Metals
- Metallographic Techniques
- Metallography for Failure Analysis
- Practical Interpretation of Microstructures
- Scanning Electron Microscopy
- Steel Metallography

SELF-STUDY

- Principles of Metallography
- Scanning Electron Microscopy

DIGITAL

- Materials Characterization and the Selection Process
- Metallographic Techniques - Parts 1 and 2
- Mechanical Properties and Their Measurement

METALLURGY

IN PERSON

- Elements of Metallurgy
- Introduction to Thermal Spray
- Mechanical Testing of Metals
- Metallurgy for the Non-Metallurgist
- Metallurgy of Steel for the Non-Metallurgist
- Metallurgy of Welding and Joining

SELF-STUDY

- Elements of Metallurgy
- Introduction to Composites
- Metallurgy for the Non-Metallurgist
- Metallurgy of Steel for the Non-Metallurgist
- Metallurgy of Welding and Joining
- Welding Inspection and Quality Control

DIGITAL

- Basics of Metal Solidification and Phase Diagrams
- Basics of Welding
- Case Hardening of Steel
- Heat Treatment of Carbon and Alloy Steels
- Strengthening Mechanisms of Non-Ferrous Alloys

FAILURE ANALYSIS

IN PERSON

- Failure Analysis of Boilers, Heat Exchangers, and Pressure Vessels
- Failure Analysis of Fasteners, Shafts, and Bearings
- How to Organize and Run a Failure Investigation
- Mechanical Testing of Metals
- Metallography for Failure Analysis
- Practical Fractography
- Practical Fracture Mechanics
- Principles of Failure Analysis
- Principles of Failure Analysis in Engineering Components

SELF-STUDY

- Component Failure Analysis
- How to Organize and Run a Failure Investigation
- Principles of Failure Analysis

DIGITAL

- Corrosion Prevention
- Corrosion Testing & Monitoring
- Failure Analysis: Ductile and Brittle Fracture
- Failure Analysis: Fatigue Failures
- Types of Corrosion



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