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- Volume 2B Properties and Selection of Aluminum Alloys (2019)
- Volume 03 Alloy Phase Diagrams
- Volume 4A Steel Heat Treating Fundamentals and Processes
- Volume 4B Steel Heat Treating Technologies
- Volume 4C Induction Heating and Heat Treatment
- Volume 4D Heat Treating of Irons and Steels
- Volume 4E Heat Treating of Nonferrous Alloys
- Volume 05 Surface Engineering

- Volume 5A Thermal Spray Technology
- Volume 5B Protective Organic Coatings
- Volume 06 Welding Brazing & Soldering
- Volume 6A Welding Fundamentals and Processes
- Volume 07 Powder Metal Technologies
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- Volume 09 Metallography and Microstructures
- Volume 10 Materials Characterization (2019)

- Volume 11 Failure Analysis and Prevention
- Volume 11A Analysis and Prevention of Component and Equipment Failures
- Volume 12 Fractography
- Volume 13A Fundamentals, Testing, and Protection
- Volume 13B Materials
- Volume 13C Environments and Industries
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- Volume 14B Metalworking: Sheet Forming

- Volume 15 Casting
- Volume 16 Machining
- Volume 17 Nondestructive Evaluation and Quality
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This 5-volume collection provides comprehensive coverage of metalworking practices and processes used in welding, brazing, soldering, forming, and casting. It includes extensive technical information on the science, technologies, materials, and equipment used in these processes. Process modeling, quality assurance, and evaluation are also addressed.

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- Volume 6A: Welding Fundamentals and Processes
- Volume 14A: Metalworking: Bulk Forming
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- Volume 15: Casting

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- Volume 5: Surface Engineering
- Volume 10: Materials Characterization (new edition late 2019)
- Volume 16: Machining
- Volume 17: Nondestructive Evaluation of Materials
- Volume 18: Friction, Lubrication, and Wear Technology

MANUFACTURING QUALITY CONTROL AND FAILURE ANALYSIS COLLECTION

This 5-volume collection brings together a wealth of reference content covering the concepts, tools, and techniques of evaluation, failure analysis, and prevention. Detailed information is presented so users can gain an understanding of fracture mechanics, friction, wear, life assessment, and life extension of ferrous, nonferrous, and nonmetallic materials in manufacturing operations.

- Volume 11: Failure Analysis and Prevention
- Volume 12: Fractography
- Volume 17: Nondestructive Evaluation of Materials
- Volume 18: Friction, Lubrication, and Wear Technology
- Volume 19: Fatigue and Fracture

MATERIALS ENGINEERING DESIGN COLLECTION

This 5-volume collection provides extensive coverage of the selection, design, modeling, and process simulation of ferrous and nonferrous metals and alloys. These volumes are essential reference guides to properties and selection of materials and explain how to leverage composition, processing, and structure in product design. The concepts and application of computational modeling and simulation are described, covering a wide range of accepted practices and processes.

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- Volume 2: Properties and Selection: Nonferrous Alloys and Special-Purpose Materials
- Volume 20: Materials Selection and Design
- Volume 22A: Fundamentals of Modeling for Metals Processing
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- Volume 1A: Cast Iron Science and Technology
- Volume 2: Properties and Selection: Nonferrous Alloys and Special-Purpose Materials
- Volume 2A: Aluminum Science and Technology
- Volume 2B: Properties and Selection of Aluminum Alloys

HEAT TREATING COLLECTION

This 5-volume collection thoroughly covers a full spectrum of heat treating processes, describing heat treating fundamentals, methods, practices, problems, and prevention techniques as they apply to irons, steels, and nonferrous alloys. All five volumes in this comprehensive heat treating series are among the most recent releases in the ASM Handbook series.

- Volume 4A: Steel Heat Treating Fundamentals and Processes
- Volume 4B: Steel Heat Treating Technologies
- Volume 4C: Induction Heating and Heat Treatment
- Volume 4D: Heat Treating of Irons and Steels
- Volume 4E: Heat Treating of Nonferrous Alloys

MATERIALS TESTING, CHARACTERIZATION, AND ANALYSIS COLLECTION

This 5-volume collection fully covers mechanical testing, metallographic techniques, and materials characterization tools for ferrous and nonferrous metals, composites, ceramics, polymers, and coatings. It describes the principles, practices, and analytical techniques of failure analysis and fractography and Volume 12 includes an atlas of over 1,300 fractographs.

- Volume 8: Mechanical Testing and Evaluation
- Volume 9: Metallography and Microstructures
- Volume 10: Characterization (new edition late 2019)
- Volume 11: Failure Analysis and Prevention
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