

# ASM Handbooks

- Volume 1 [Properties and Selection: Irons, Steels, and High-Performance Alloys](#)
- 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](#)
- Volume 3 [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 4F [Quenchants and Quenching Technology](#) **Preview Articles**
- Volume 5 [Surface Engineering](#) **New Article:** [view](#)
- Volume 5A [Thermal Spray Technology](#)
- Volume 5B [Protective Organic Coatings](#)
- Volume 6 [Welding, Brazing, and Soldering](#)
- Volume 6A [Welding Fundamentals and Processes](#)
- Volume 7 [Powder Metallurgy](#)
- Volume 8 [Mechanical Testing and Evaluation](#)
- Volume 9 [Metallography and Microstructures](#)
- Volume 10 [Materials Characterization](#)
- Volume 11 [Failure Analysis and Prevention](#)
- Volume 11A [Analysis and Prevention of Component and Equipment Failures](#)
- Volume 11B [Characterization and Failure Analysis of Plastics](#) **New Volume**
- Volume 12 [Fractography](#) **Updated Edition Preview Articles:** [view](#)
- Volume 13A [Corrosion: Fundamentals, Testing, and Protection](#)
- Volume 13B [Corrosion: Materials](#)
- Volume 13C [Corrosion: Environments and Industries](#)
- Volume 14A [Metalworking: Bulk Forming](#)
- Volume 14B [Metalworking: Sheet Forming](#)
- Volume 15 [Casting](#)
- Volume 16 [Machining](#)
- Volume 17 [Nondestructive Evaluation of Materials](#)
- Volume 18 [Friction, Lubrication, and Wear Technology](#)
- Volume 19 [Fatigue and Fracture](#)
- Volume 20 [Materials Selection and Design](#)
- Volume 21 [Composites](#)
- Volume 22A [Fundamentals of Modeling for Metals Processing](#)
- Volume 22B [Metals Process Simulation](#)
- Volume 23 [Materials for Medical Devices](#)
- Volume 23A [Additive Manufacturing in Biomedical Applications](#)
- Volume 24 [Additive Manufacturing Processes](#)
- Volume 24A [Additive Manufacturing Design and Applications](#) **New Volume**

