



ASM HB 2000: Vol. 8: Mechanical Testing and Evaluation

By Howard Kuhn, Diana Medlin

ASM International, United States, 2000. Book. Book Condition: New. 279 x 229 mm. Language: English . Brand New Book. The standard reference book on the mechanical characteristics and testing of metals, plastics, ceramics, and composites. Key Features: Describes the basics of mechanical behavior with in-depth coverage on testing methods for metals, plastics, ceramics and composites. Articles describe the purpose, equipment, fixturing, data evaluation, and typical applications for standard and emerging mechanical tests. Comparative mechanical properties and the mechanical characteristics of metals, plastics, and ceramics are included throughout for general reference. Updated references to ISO, ASTM, DIN, EN, JIS and other standards are also included throughout for metals, plastics, ceramics, and composites. Contents Include: Introduction to the Mechanical Behavior of Metals and Nonmetallic Materials Mechanical Testing of Polymers and Ceramics Mechanical Properties and Testing for Design Mechanical Testing for Metalworking processes Testing Machines and Strain Sensors Accreditation of Mechanical-Testing Laboratories Tension, Compression, Bend, and Shear Testing Hardness Testing Friction, Wear, and Surface Testing Creep and Stress-Relaxtion Testing High-Strain-Rate Testing Impact-Toughness Testing and Fracture Mechanics Fatigue Testing Component Testing Property-Comparison Tables Glossary of Terms Index.



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