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Quasi-static mechanical tests; 3.2.1. Uni-axial tensile and compression tests; 3.2.2. Torsion and bending tests; 3.2.3. Hydrostatic compression tests; 3.3. Ultrasonic methods; 3.3.1. Principle; 3.3.2. Measurement error sources; 3.3.3. Measurements at high temperatures; 3.3.4. Immersion-bath ultrasound interferometry; 3.4. Resonant methods; 3.4.1. Introduction to resonant methods; 3.4.2. Various experimental methods; 3.4.3. Bar and disk tests; 3.4.4. Bending tests on foil; 3.4.5. Torsion tests; 3.4.6. Other tests
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5.4.2. Effect of work-hardening amplitude

Sommario/riassunto

The mechanical tests presented in this book are essential for determining the basic properties of the materials used. Areas covered include elasticity, tensile and compression tests, hardness, endurance tests and dynamic tests.
