1.	Record Nr.	UNISA996383105603316
	Autore	Lenton Francis <fl. 1630-1640.>
	Titolo	Lenton's characters: or, Witty and ingenious descriptions of severall professions, presented to all judicious readers. Written for his owne, and now published for others recreation [[electronic resource]]
	Pubbl/distr/stampa	London, : printed for Richard Harper, in Smithfield, near tae Hospitall Gate, 1653
	Descrizione fisica	[160] p
	Soggetti	Professions - Humor
		Characters and characteristics
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Signatures: piâ¶(-pi6) B-GÂ¹Â² Hâ´[-H4].
		Includes contents table.
		Reproduction of the original at the Worcester College Library, Oxford.
	Sommario/riassunto	eebo-0121

2.	Record Nr.	UNINA9911019197903321
	Titolo	Structural components : mechanical tests and behavioral laws / / edited by Dominique Francois
	Pubbl/distr/stampa	London, : ISTE Hoboken, NJ, USA, : Wiley, : ISTE, 2008
	ISBN	1-282-25392-1 9786613814579 0-470-61103-0 0-470-39361-0
	Descrizione fisica	1 online resource (343 p.)
	Collana	ISTE ; ; v.18
	Altri autori (Persone)	FrancoisDominique <1948->
	Disciplina	620.1/123
	Soggetti	Materials - Mechanical properties Deformations (Mechanics)
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Description based upon print version of record.
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Structural Components; Table of Contents; Chapter 1. Introduction; Chapter 2. Constitutive Equations; 2.1. Introduction; 2.2. Fundamental concepts; 2.2.1. Domain of elasticity; 2.2.2. Hardening; 2.2.3. Normality rules; 2.3. Unified theory of viscoplasticity; 2.3.1. General form of the constitutive law; 2.3.2. Choice of viscosity law; 2.3.3. Isotropic hardening laws; 2.3.4. Kinematic hardening laws; 2.3.5. Cyclic hardening and softening; 2.3.6. Static recovery; 2.3.7. Time-independent limit case; 2.3.8. Methods of determination 2.3.8.1. Determination of hardening laws within independent time-scheme2.3.8.2. Determination of the viscosity law; 2.3.8.3. Determination of static recovery effects; 2.3.9. Other unified approaches; 2.4. Other types of modeling; 2.4.1. Plasticity-creep partition; 2.4.2. Methods by means of micro-macro transposition; 2.4.3. More advanced hardening laws; 2.4.4. Aging; 2.4.5. Damage; 2.5. Conclusion; 2.6. Bibliography; Chapter 3. Measurement of Elastic Constants; 3.1. Elastic constants; 3.1.1. The perfect crystal - elastic constants; 3.1.2. Isotropic solid - elastic moduli 3.1.3. From isotropic solid to real material3.1.4. Dynamic modulus; 3.2.

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

3.5. Modulus measurements of coatings3.5.1. Vibratory methods; 3.5.2. Instrumented indentation; 3.6. Bibliography; Chapter 4. Tensile and Compression Tests; 4.1. Introduction; 4.2. Description of the tensile test; 4.2.1. Test piece; 4.2.2. Gripping; 4.2.3. Tensile testing machine; 4.2.3.1. Arrangements; 4.2.3.2. Stiffness; 4.3. Standard data; 4.4. Determination of constitutive equations; 4.4.1. True stress and strain; 4.4.2. Empirical expressions of the work hardening curve; 4.4.3. Necking; 4.4.3.1. Condition with no strain rate effect; 4.4.3.2. Strain rate sensitivity; 4.4.3.3. Yield drops

4.5. Damage determination4.6. Compression test; 4.7. Conclusion; 4.8. Notations; 4.9. Bibliography; Chapter 5. Hardness Tests; 5.1. Introduction; 5.2. Standard hardness tests; 5.2.1. Vickers hardness tests; 5.2.2. Micro-hardness; 5.2.3. Nano-hardness (Berkovich type indenter); 5.2.4. Brinell and Rockwell ball tests; 5.3. Analytical approaches of hardness tests; 5.3.1. Identification of the modulus of elasticity (Hertz contact); 5.3.2. Identification of the yield strength (Hill's analysis); 5.4. Finite element analysis of hardness test; 5.4.1. Finite element method

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.