

1. Record Nr.	UNINA9910877231603321
Titolo	Plasticity of metals: experiments, models, computation : final report of the Collaborative Research Centre 319, "Stoffgesetze für das inelastische Verhalten metallischer Werkstoffe - Entwicklung und technische Anwendung" 1985 - 1996
Pubbl/distr/stampa	[Place of publication not identified], : Wiley VCH, 2001
ISBN	1-280-55755-9 9786610557554 3-527-60011-6
Descrizione fisica	1 online resource (427 pages)
Disciplina	620.1/633
Soggetti	Metals - Plastic properties Materials Science Chemical & Materials Engineering Engineering & Applied Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Sommario/riassunto	This is the final report, drawing its conclusions and results from many individual papers and co-workers at the Institute for Structural Analysis of the Technical University of Braunschweig. It shows the correlation between energetic and mechanical quantities of face-centred cubic metals, cold worked and softened to different states. Constitutive models for the plastic of metals are developed and the application of these models is presented. The improvements achieved by this contribution cover the material functions, the shape of yield surfaces, and the consideration of distributed experimental data within the numerical analysis.