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Autore	Roters Franz
Titolo	Crystal plasticity finite element methods in materials science and engineering / / Franz Roters [and three others]
Pubbl/distr/stampa	Weinheim : , : Wiley-VCH Verlag GmbH & Company KGaA, , [2010] ©2010
ISBN	1-282-77491-3 9786612774911 3-527-64209-9 3-527-63148-8 3-527-63149-6
Descrizione fisica	1 online resource (211 p.)
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Soggetti	Crystals - Plastic properties Anisotropy Finite element method
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	Crystal Plasticity Finite Element Methods; Notation; Contents; Preface; 1 Introduction to Crystalline Anisotropy and the Crystal Plasticity Finite Element Method; Part One Fundamentals; 2 Metallurgical Fundamentals of Plastic Deformation; 3 Continuum Mechanics; 4 The Finite Element Method; 5 The Crystal Plasticity Finite Element Method as a Multiphysics Framework; Part Two The Crystal Plasticity Finite Element Method; 6 Constitutive Models; 7 Homogenization; 8 Numerical Aspects of Crystal Plasticity Finite Element Method Implementations; Part Three Application 9 Microscopic and Mesoscopic Examples10 Macroscopic Examples; 11 Outlook and Conclusions; References; Index
Sommario/riassunto	Written by the leading experts in computational materials science, this handy reference concisely reviews the most important aspects of plasticity modeling: constitutive laws, phase transformations, texture methods, continuum approaches and damage mechanisms. As a result, it provides the knowledge needed to avoid failures in critical systems

udner mechanical load. With its various application examples to micro- and macrostructure mechanics, this is an invaluable resource for mechanical engineers as well as for researchers wanting to improve on this method and extend its outreach.

2. Record Nr.	UNICAMPANIAVAN0250533
Autore	Verdeja González, Luis Felipe <1953->
Titolo	Operations and Basic Processes in Steelmaking / Luis Felipe Verdeja González, Daniel Fernández González, José Ignacio Verdeja González
Pubbl/distr/stampa	Cham, : Springer, 2021
Descrizione fisica	XI, 516 p. : ill. ; 24 cm
Altri autori (Persone)	González Fernández, Daniel Verdeja González, José I.
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