

1. Record Nr.	UNINA9910823485503321
Titolo	Integrative computational materials engineering : concepts and applications of a modular simulation platform // edited by Georg J. Schmitz and Ulrich Prah
Pubbl/distr/stampa	Weinheim, Germany, : Wiley-VCH, 2012
ISBN	3-527-64611-6 1-280-69818-7 9786613675149 3-527-64612-4 3-527-64609-4
Edizione	[1st ed.]
Descrizione fisica	1 online resource (346 p.)
Altri autori (Persone)	SchmitzGeorg J PrahUlrich
Disciplina	620.110113
Soggetti	Materials Engineering - Simulation methods
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	pt. 1. Concepts -- pt. 2. Applications.
Sommario/riassunto	Presenting the results of an ambitious project, this book summarizes the efforts towards an open, web-based modular and extendable simulation platform for materials engineering that allows simulations bridging several length scales. In so doing, it covers processes along the entire value chain and even describes such different classes of materials as metallic alloys and polymers. It comprehensively describes all structural ideas, the underlying concepts, standard specifications, the verification results obtained for different test cases and additionally how to utilize the platform as a user an