1. Record Nr. UNINA9910786213003321

Titolo	Sintering fundamentals : special topic volume, invited papers only / / edited by: G.S. Upadhyaya
Pubbl/distr/stampa	Zurich, Switzerland ; ; United Kingdom : , : Trans Tech, , [2009] ©2009
ISBN	3-03813-249-7
Descrizione fisica	1 online resource (145 p.)
Collana	Materials science forum, , 0255-5476 ; ; volume 623
Altri autori (Persone)	UpadhyayaG. S
Disciplina	671.373
Soggetti	Sintering
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 indexes.
Nota di contenuto	Sintering Fundamentals; Preface; Table of Contents; Quantitative Analysis of Microstructure and Modeling of Sintering; Computer Simulation of Liquid Phase Sintering: Gravity Induced Skeletal Structure Evolution - A Review; Deconsolidation of Polycrystalline Skeletons in Sintered Composite Materials; Samsonov's Model for Electronic Mechanism of Sintering and its Relevance; Solid State Sintering of SiC-Ceramics; Liquid Phase Sintering of SiC-Ceramics; Doped LaGaO3 Based Solid Oxide Fuel Cell Materials and their Sintering Aspects: An Overview; Keywords Index; Authors Index
Sommario/riassunto	This book comprises state-of-the-art reviews written by acknowledged experts who are active in sintering science. It includes seven invited reviews by authors hailing from five countries: J-M.Chaix (France) discusses quantitative aspects of the microstructures and modeling of sintering; with the technical aspects of image-analysis - including that of nanostructured materials - adding extra value. Z.S. Nikolic (Serbia) provides a theoretical review of the simulation of liquid-phase sintering, particularly under microgravity conditions, and extensively and critically reviews the results reported