

1. Record Nr.	UNINA9910781037203321
Titolo	Ceramics processing in microtechnology [[electronic resource] /] / edited by H.-J. Ritzhaupt-Kleissl, Per Johander
Pubbl/distr/stampa	Dunbeath, Scotland, : Whittles Pub. Boca Raton, Fla., : CRC Press, 2009
ISBN	1-84995-347-3 1-5231-0135-0 1-84995-014-8
Descrizione fisica	1 online resource (352 p.)
Altri autori (Persone)	Ritzhaupt-KleisslH.-J JohanderPer
Soggetti	Micromechanics Ceramic materials - Microstructure Microtechnology
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	""Contents""; ""Foreword""; ""Preface""; ""The Ceramic Division within the 4M Network""; ""Abbreviations""; ""List of contributing authors""; ""Ceramics in microtechnology: status, requirements and challenges""; ""Design rules for microcomponents""; ""Process simulation with particle methods: micropowder injection moulding and hot embossing""; ""Finite element modeling of the pressing of ceramic powders to predict the shape of a pellet after die compaction and sintering""; ""Wet chemical synthesis for multinary oxide ceramics"" ""Synthesis of nanoscaled powders for applications in microsystems technology"" ""Near net shaping of ceramics in microsystems technology""; ""(Ba/Sr)TiO3: A perovskite-type ferroelectric for tunable dielectric applications at radio frequencies""; ""Properties and application of polymer/ceramic composites in microsystem technologies""; ""Micromoulds for injection moulding with ceramic feedstocks""; ""High-pressure microceramic injection moulding""; ""Low-pressure injection moulding""; ""Fabrication of ceramic microcomponents by electrophoretic deposition""

""Tape casting in micro- and nanofabrication""""Low temperature cofi
red ceramic-processing for microsystem applications""; ""Different
ceramic materials for micromilling of high aspect ratio
microstructures""; ""High precision microgrooving on ceramic
substrates""; ""Patterning of ceramics and glass surfaces""; ""Free form
microprocessing of ceramic materials by electrodischarge machining"";
""Layer manufacturing of ceramic microcomponents""; ""Micro direct
writing of ceramics""; ""Quality assurance and metrology""; ""Index""
