1. Record Nr. UNINA9910438043703321

Titolo	Nontraditional Machining Processes : Research Advances / / edited by J. Paulo Davim
Pubbl/distr/stampa	London : , : Springer London : , : Imprint : Springer, , 2013
ISBN	9781447151791 1447151798
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (x, 232 pages) : illustrations (some color)
Collana	Gale eBooks
Altri autori (Persone)	DavimJ. Paulo
Disciplina	621.902
Soggetti	Machinery Manufactures Coatings Tribology Corrosion and anti-corrosives Machinery and Machine Elements Machines, Tools, Processes Corrosion
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	1.Laser assisted manufacturing: fundamentals, current scenario and future applications -- 2.Laser beam machining -- 3.CO2 Laser cutting of triangular geometry in aluminium foam -- 4.Micro-electrical discharge machining (Micro-EDM) -- 5.Prototype machine for Micro-EDM -- 6.Abrasive water jet milling -- 7.A new approach for the production of blades by hybrid processes.
Sommario/riassunto	Nontraditional machining employs processes that remove material by various methods involving thermal, electrical, chemical and mechanical energy or even combinations of these. Nontraditional Machining Processes covers recent research and development in techniques and processes which focus on achieving high accuracies and good surface finishes, parts machined without burrs or residual stresses especially with materials that cannot be machined by conventional methods. With applications to the automotive, aircraft and mould and die industries,

Nontraditional Machining Processes explores different aspects and processes through dedicated chapters. The seven chapters explore recent research into a range of topics including laser assisted manufacturing, abrasive water jet milling and hybrid processes. Students and researchers will find the practical examples and new processes useful for both reference and for developing further processes. Industry professionals and materials engineers will also find Nontraditional Machining Processes to be a source of ideas and processes for development and industrial application.