

1. Record Nr.	UNINA9910814658103321
Titolo	New frontiers in materials processing training and learning : selected peer reviewed papers from the XVI Innovative Technical Learning Conference on New Frontiers in Materials Processing Training and Learning Especial Symposium // edited by M. Marcos
Pubbl/distr/stampa	Stafa-Zurich ; ; United Kingdom ; ; Enfield, New Hampshire : , : Trans Tech Publications, , [2009] ©2009
ISBN	3-03813-246-2
Descrizione fisica	1 online resource (126 p.)
Collana	Materials science forum, , 0255-5476 ; ; volume 625
Altri autori (Persone)	MarcosM (Mariano)
Disciplina	620.1/1071
Soggetti	Materials science - Study and teaching
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"The papers included in this issue have been selected from those presented to the New Frontiers in Materials Processing Learning and Training Especial Symposium of the 16th Innovative University Technical Learning, hold in Cadiz (Spain) in September 2008."--Pref.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	New Frontiers in Materials Processing Training and Learning; Preface; Committees; Table of Contents; An Integrated Approach to Teach Metal Forming and Moulding as per New EHEA Framework; Application of New Educational Methodologies Adapted to the EHEA Guidelines for Manufacturing Engineering Teaching in University Curricula; CAL-CBT Based Virtual Learning and Training in Machining Engineering. A Case Study: CNC Lathe; Computer Aided Practical Teaching of the Electro Discharge Machining Process ; Computer-Aided System for Teaching Machining with Numerical Control Good Practices in Teaching of Advanced Processes in Mechanical Engineering Projects Learning Groups Implantation of Virtual Practices about Materials Processing in the Manufacturing Engineering Department of the University of Malaga ; Manufacturing Process Definition as a Basic Teaching Tool in the EHEA; Methodology for Teaching the Material Removal Processes by Using CAD/CAM Software: Turning Processes; Methodology for the Practical Learning of Pelletizing Processes of Biomass Waste; New Virtual Environment for Active

Learning on Parameter Adjustment of Plastic Injection Molding
Study of the Student's Workload for the Manufacturing Related Subjects
within the European Higher Education Area Teaching Strategy in
Numerical Modelling of Metal Forming Processes; The Application of
PDAs and Smartphones in the Classroom as Instruments for
Improvement of Learning Monitoring ; Keywords Index; Authors Index

Sommario/riassunto

Materials processing engineering is currently considered to be an interdisciplinary engineering field. Learning and training in materials processing must therefore be accompanied by diverse sets of workshops and practical laboratory experiments. In general, the equipment which is required to be available in these laboratories or workshops is very expensive and can become obsolete within a few years. On the other hand, the continual evolution of materials inevitably drives change. However, innovative education techniques, based upon information and communications technologies, are currently und