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Collana	Applied Mechanics and Materials, , 1662-7482 ; ; Volume 655
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Green Factory Bavaria Colloquium 2014; Preface; Table of Contents; Chapter 1: Sustainable Manufacturing Strategies; Life Cycle Assessment Tool in the Early Stage of Development; Contribution for the Life Cycle Oriented Evaluation of Costs and Resource Efficiency of Production Machines in Procurement; E Benchmark - Approaches and Methods for Assessing the Energy Efficiency of the Industrial Automated Product Manufacturing; Identification of Energy Consumption and Energy Saving Potentials of Electric Drive Systems; Energy Concepts for Manufacturing Companies; Chapter 2: Energy Measuring Systems Energy Controlling - Analysis and Evaluation of Energy Measuring Equipment for the Purpose of Energy Transparency in Production Plants Development of an Adjustable Measuring System for Electrical Consumptions in Production; Identifying Energy Efficiency Potentials by Applying Flexible Measuring Systems; Energy Planning of Manufacturing Systems with Methods-Energy Measurement (MEM) and Multi-Domain Simulation Approach; Estimating Machine Power Consumptions through Aggregated Measurements and Machine Data Acquisition; Chapter 3: Energy Efficient Process Technologies Methodology to Increase Energy Efficiency in Discrete Manufacturing Energy Efficient Manufacturing of Lightweight Products Illustrated by a

Structural Optimization of an Automatic Knife Cutting System; Basic Investigation on Melting Operations in the Die Casting Industry to Increase Manufacturing Efficiency and Process Reliability; Influence of Temperature and Wavelength on Optical Behavior of Copper Alloys; Energy Efficiency Investigation on High-Pressure Convection Reflow Soldering in Electronics Production; Keywords Index; Authors Index

Sommario/riassunto

Collection of selected, peer reviewed papers from the 1st Green Factory Colloquium, September 30 - October 1, 2014, Nuremberg, Germany. The 15 Papers are grouped as follows: Chapter 1: Sustainable Manufacturing Strategies; Chapter 2: Energy Measuring Systems; Chapter 3: Energy Efficient Process Technologies