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| Altri autori (Persone) | SzczotokA |
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| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and indexes. |
| Nota di contenuto | Terotechnology; Preface and Conference Organizers; Table of Contents; Chapter 1: Materials; The Material Properties of Different Zones of Joints Welded Using a Laser; Tribological Properties of Diamond-Like Carbon Coatings; Influence Environment and Parameters Ablative Laser Texturing on Selected Properties Surface Layer Steel 100CrMnSi6-4; Quantitative Analysis of the Polymer/Metal Powder Magnetic Composites Compacts Structure; The Average Friction Coefficient of Laser Textured Surfaces of Silicon Carbide Identified by RSM Methodology Evaluation of the State for the Material of the Live Steam Super heater Pipe Coils of V Degree Fatigue Strength of Ductile Iron in Ultra-High Cycle Regime; Chapter 2: Technologies; Influence of Laser Surface Texturing on Scuffing Resistance of Sliding Pairs; Contour Error of the 3-DoF Hydraulic Translational Parallel Manipulator; The Impact of the Power Plant Unit Start-Up Scheme on the Pollution Load; Impact of the Parameters of Laser-Vibration Treatment on the Roughness of Aluminium Melts; Research of the Elastic Properties of Bellows Made in SLS Technology The Centrifugal Pump with the Impeller Supported in Sealing Clearances Enhancing Safety and Security of Networked FPGA-Based Embedded Systems; Laser Texturing, Spark Erosion and Sanding of the Surfaces |

and their Practical Applications in Heat Exchange Devices; Electrospark Alloying of Carbon Steel with WC-Co-Al₂O₃: Deposition Technique and Coating Properties; The Influence of Electrospark and Laser Treatment upon Corrosive Resistance of Carbon Steel ; Laser Cold Ablation as a Cutting Edge Method of Forming Silicon Wafers Used in Solar Cells; Laser Technologies in Microsystems

Chapter 3: Methods Modelling of the Mechanical State of a Diamond Particle in the Metallic Matrix; Application the 3D Image Analysis Techniques for Assessment the Quality of Material Surface Layer before and after Laser Treatment; Modeling of Errors Counting System for PCB Soldered in the Wave Soldering Technology; The Heuristic Approach to the Selection of Experimental Design, Model and Valid Pre-Processing Transformation of DoE Outcome; The Optimization of the Technological Process with the Fuzzy Regression; Factorial Approach to Assessment of GPU Computational Efficiency in Surrogate Models On the Possibility of the Estimation of the Depth of a Keyhole Formed during Laser Welding Keywords Index; Authors Index

Sommario/riassunto

Collection of selected, peer reviewed papers from the 8th International Conference on Terotechnology, September 26-27, 2013, Kielce, Poland. The 26 papers are grouped as follows: Chapter 1: Materials; Chapter 2: Technologies; Chapter 3: Methods In sections on materials, technologies, and methods, 26 papers explore matters pertaining to installing, commissioning, maintaining, replacing, and removing plant machinery and equipment. Among the topics are the quantitative analysis of the compact structure in polymer/metal powder magnetic composites, how the start-up scheme impacts the pollution load
