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Nota di contenuto	Operation and Diagnostics of Machines and Production Systems Operational States II; Preface; Table of Contents; I. Theory, Diagnostics and Operational States of Machines; Diagnostic of Manufacturing Devices Operational States by Smart-Phones Application with Use of Augmented Reality Methods; Use of Diagnostic Methods for Monitoring of Disorder State of Production Machines and Equipment; Interactive Monitoring of Production Process with Use of Augmented Reality Technology; Bearing Units and Surface Micro-Geometry of Rolling Races in Textile Machinery Implementation of Method and Structure Handling Manipulation Operations to Hydroabrasive Process Modelling of the Anisothermal Phase Transformation of Austenite by Electromagnetic Sensor; Degradation Process in Area of Connecting Metal Sheets by Adhesive Bonding Technology in Agrocomplex; Mathematical Modelling and Optimization of Technological Process Using Design of Experiments Methodology; Boroscopy Application in Assurance of Technological Equipment Operational Capability; Diagnostics of the Arm Actuator Position Using Incremental Measurement Experimental Investigation and Analysis of the Impact in Abrasive Mass

Flow Changes with and without the Use of Sieve Analysis on Technological Head Vibrations at Hydroabrasive Cutting; Design of Module of Moving Robot; Operating Characteristics of Antagonistic Actuator with Pneumatic Artificial Muscles; Using Atomic Spectrometry and Volumetry Method for Determination of Bearing Corrosion in Tribotechnical Diagnostics of Engines; Determination of the Suitability of the Method Used for Evaluation Measurement Equipment Capability; Ensuring the Reliability of an Aircraft Engine Hydraulic System Loops Control Structure and Solar System Control of a Multivalent Laboratory under Real-Time Mode; Monitoring of Biomass-Based Heat Production System; Impact of Lubrication Interval to Operating Status of Bearing; Analysis of Technological Head Working Pressure, Tilt Angle and Shift Impact to its Vibrations Using AWJ Technology; New Methods of Obtaining Input Data of Numerical Computations by Using Heat Treatment Simulator; Technological Head Tilt Angle Influence Analysis to Generation of Vibration during Ceramics Material Machining by Means of AWJ Technology; Progressive Technology Diagnostics and Factors Affecting Machinability; Diagnostic and Experimental Valuation on Progressive Machining Unit; Analysis of the Damage Causes of High Speed Bearing Failure; Monitoring of the Influence of Moisture Content in Thermoplastic Granulate on Rheological Properties of Material; Dynamic Analysis of Worm Gear Boxes; II. Operation of Production Systems; Diagnostics of Errors at Component Surface by Vision Recognition in Production Systems; Short-Term Testing of Cutting Materials Using the Method of Interrupted Cut; Dynamics of Core Taking out at Die Casting; Diagnostics of Strain Hardening Exponent and Material Constant of Steel Sheets

Sommario/riassunto

Special Topic Volume entitled Operation and Diagnostics of Machines and Production Systems Operational States II is focused on the operation, technology and diagnostics of operational states of machines and manufacturing systems. The topic covers research fields that are mainly solved at the Faculty of Manufacturing Technologies of Technical University of Kosice with a seat in Presov for long period of time. Dealing with such kind of research is necessarily associated with high theoretical demands, so authors would like to disseminate achieved knowledge in research, educational and entrepreneur
