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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 ProcessModelling 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
