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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 CuttingDesign 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 ModeMonitoring 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
MachinabilityDiagnostic 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 entrepreneu