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| Nota di contenuto       | Design, Testing and Characteristics of Mechatronic Devices; Preface; Table of Contents; Experimental Validation of Nominal Model Characteristics for Pneumatic Muscle Actuator; Wireless Device Based |

on MEMS Sensors and Bluetooth Low Energy (LE/Smart) Technology for Diagnostics of Mechatronic Systems; Electro-Pneumatic Robot Actuator with Artificial Muscles and State Feedback; Material Damping of Fibrous Composites for Devices Driven by Artificial Muscles; Operational Reliability of Mechatronic Equipment Based on Pneumatic Artificial Muscle

Analysis of Incremental Measurement of the Arm Position with Actuator; Proposal of Linear Drive for Mechatronic Facility of Solar Panels; Mathematical Description and Static Characteristics of the Spring Actuator with Pneumatic Artificial Muscle; Present Trends in Designing of Technical Systems; Pneumatic Artificial Muscle as Actuator in Mechatronic System; Modelling of Selected Reliability Indicators of Prototype PAM Equipment; Impact of an Excessive Wear of Bearing on the Mechatronic Devices; Study of the Surface Material AISI 304 Usable for Actuator after the Process of Turning

Keywords Index Authors Index

#### Sommario/riassunto

Design, Testing and Characteristics of Mechatronic Devices is a special topic volume of scientific papers. The topic belongs to the fundamental research fields that are 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 entrepreneurial areas. Scientific papers present results of research, mainly partial results achieved within a scientific