

CONTENTS

Paweł Bachman, Andrzej Milecki <i>Investigation of Electrohydraulic Drive Control System with the Haptic Joystick</i>	5
Krzysztof Kęcik <i>Energy Recovery from a Non-Linear Electromagnetic System</i>	11
Matej Urbanský, Jaroslav Homišin, Peter Kaššay, Jozef Krajňák <i>Measurement of Air Springs Volume using Indirect Method in the Design of Selected Pneumatic Devices</i>	19
Paweł Bogusz, Roman Gieleta, Marcin Konarzewski, Michał Stankiewicz <i>Crushing Behaviour of the PVC Foam Loaded with Beaters of Various Shapes</i>	23
Wojciech Sikora, Krzysztof Michalczyk, Tomasz Machniewicz <i>Numerical Modelling of Metal-Elastomer Spring Nonlinear Response for Low-Rate Deformations</i>	30
Janusz Lewandowski, Dariusz Rozumek <i>Numerical Analysis of Stress Intensity Factor in Specimens with Different Fillet Geometry Subjected to Bending</i>	38
Tadeusz Kaczorek <i>Invariant, Decoupling and Blocking Zeros of Fractional Linear Systems</i>	44
Agnieszka Wasilewska, Jolanta Pauk, Mikhail Ihnatouski <i>Image Processing Techniques for ROI Identification in Rheumatoid Arthritis Patients from Thermal Images</i>	49
Maria Kotełko, Mirosław Ferdynus, Jacek Jankowski <i>Energy Absorbing Effectiveness – Different Approaches</i>	54
Dominik Wojtkowiak, Krzysztof Talaśka, Ireneusz Malujda <i>Concept of the Hexa-Quad Bimorph Walking Robot and the Design of its Prototype</i>	60
Eugeniusz Mańka, Małgorzata Słomion, Maciej Matuszewski <i>Constructional Features of Ropes in Functional Units of Mining Shaft Hoist</i>	66
Bohdan Pavlyk, Markijan Kushlyk, Dmytro Slobodzyan, Igor Matvijishyn, Roman Lys, Marek Jałbrzykowski <i>Radiation-Stimulated Changes in the Characteristics of Surface-Barrier Al–Si–Bi Structures with Different Concentrations of Dislocations at the Crystal Surface</i>	72
Adam Wolniakowski, Andrej Gams, Lilita Kiforenko, Aljaž Kramberger, Dimitrios Chrysostomou, Ole Madsen, Konstantin Miatliuk, Henrik Gordon Petersen, Frederik Hagelskjær, Anders Glent Buch, Aleš Ude, Norbert Krüger <i>Compensating Pose Uncertainties through Appropriate Gripper Finger Cutouts</i>	78
<i>Abstracts</i>	84