

CONTENTS

Tadeusz Bil <i>Bennett Mechanism in the geometry of tori</i>	5
Andrzej Burghardt <i>Modelling of dynamic mobile robot using a Appell equation</i>	9
Jacek Buśkiewicz <i>Optimal synthesis of open paths generators</i>	13
Łukasz Derpeński, Andrzej Seweryn <i>Experimental investigation of ductile fracture specimens with nothes made of aluminium alloy EN-AW 2024 and EN-AW 2007</i>	20
Łukasz Dworzak, Tadeusz Mikulczyński <i>Synthesis Grafpol method of concurrent procedures in which steps execution is indicated by logic and time conditions</i>	25
Tomasz Geisler <i>Free vibration analysis of the body system of the truck crane DST-0285 with considration of the system configuration changes</i>	30
Andrzej Kazberuk, Michał Niedźwiedz <i>Effect of notch shape on the stress distribution alongside edges</i>	38
Tomasz Kopecki, Hubert Dębski <i>Post-critical deformations state of multi-section, multi-stringer thin walled structure, subjected to the torsion. Experimental research and non-linear numerical analysis</i>	42
Janusz Kowal, Andrzej Sioma <i>The method of building 3D product image using vision system</i>	48
Piotr Krawiec <i>Design and forming of teeth of noncircular cogbelt pulleys</i>	52
Tomasz Kuźmierowski <i>Analysis of the geometrical accuracy of the positioning of the effector of the parallel manipulator spatial type Triplanar</i>	56
Paweł Łaski, Ryszard Dindorf, Jakub Takosoglu, Piotr Woś <i>Project of pneumatic parallel manipulator type Delta with pneumatic muscle actuators</i>	61
Jerzy Madej, Maksymilian Dudyk <i>Numerical simulation of thermal identification of gas porosity and inclusions in aluminum alloys</i>	66
Romuald Mosdorf, Tomasz Wyszowski <i>The gas bubbles detachment from the nozzl experimental investigations and modelling</i>	72
Andrzej A. Stępniewski <i>Analysis of structural, geometrical and static of knee-joint mechanism</i>	80
Jakub Takosoglu, Ryszard Dindorf, Paweł Łaski, Piotr Woś <i>Positioning of electro-pneumatic servo-drive with direct displacement and velocity transducer</i>	86
Mirosław Tarasiuk, Zdzisław Gosiewski <i>Speech segmentation in polish language by wavelet transformation</i>	92
Roman Trochimczuk <i>Study of construction a new polar positioning system for laser device for3D subsurface glass engraving</i>	96

Andrzej Urbaś, Marek Szczotka <i>Application of the neural network in control of a flexibly supported crane</i>	101
Andrzej Zniszczyński <i>Application of multisegment rotors about the variable jump of the helix in the air-compressor with four parallel synchronous rotors</i>	108
Wiesław Żylski, Piotr Gierlak <i>Modelling of movement of selected manipulator</i>	112