

CONTENTS

Łukasz Jastrzębski, Bogdan Sapiński <i>Experimental Investigation of an Automotive Magnetorheological Shock Absorber</i>	253
Aleksandr Blokhin, Arcadiy Nedyalkov, Lev Barakhtanov, Aleksandr Taratorkin, Abram Kropp <i>Multistage Mechanical Transmissions with Automatic Control for Advanced Trucks and Buses</i>	260
Paweł Skalski, Klaudia Kalita <i>Role of Magnetorheological Fluids and Elastomers in Today's World</i>	267
Mojtaba Biglar, Magdalena Gromada, Feliks Stachowicz, Tomasz Trzepieciński <i>Synthesis of Barium Titanate Piezoelectric Ceramics for Multilayer Actuators (MLAs)</i>	275
Katarzyna Topczewska <i>Thermal Stresses Due to Frictional Heating with Time-Dependent Specific Power of Friction</i>	280
Oleg Ardatov, Algirdas Maknickas, Vidmantas Alekna, Marija Tamulaitienė, Rimantas Kačianauskas <i>The Finite Element Analysis of Osteoporotic Lumbar Vertebral Body by Influence of Trabecular Bone Apparent Density and Thickness of Cortical Shell</i>	285
Alok Dhaundiyal, Suraj B. Singh <i>Asymptotic Approximations to the Non- Isothermal Distributed Activation Energy Model for Biomass Pyrolysis</i>	293
Andrzej Waindok, Paweł Piekini <i>Transient Analysis of a Railgun with Permanent Magnets Support</i>	302
Iaroslav Pasternak, Heorhiy Sulym <i>Boundary Element Analysis of Anisotropic Thermomagnetoelastoelectric Solids with 3D Shell-Like Inclusions</i>	308
Jan Górecki, Ireneusz Malujda, Krzysztof Talaśka, Dominik Wojtkowiak <i>Dry Ice Compaction in Piston Extrusion Process</i>	313
Artur Prusinowski, Roman Kaczyński <i>Simulator of Processes Occurring in the Extrusion Head Used in Additive Manufacturing Technology</i>	317
Marta Góra-Maniowska, Józef Knapczyk <i>Displacement Analysis of the Human Knee Joint Based on the Spatial Kinematic Model by Using Vector Method</i>	322
Andrzej Milecki, Roman Regulski <i>Washing Machine Controller with a New Programming Method</i>	328
Łukasz Bohdal, Katarzyna Tandecka, Paweł Kaldunski <i>Numerical Simulation of Shear Slitting Process of Grain Oriented Silicon Steel using SPH Method</i>	333
<i>Abstracts</i>	339