

Table of content

<i>Cornelia-Victoria Anghel Drugarin, Vyacheslav V. Lyashenko, Muncho J. Mbunwe, M. Ayaz Ahmad</i>	
Pre-processing of Images as a Source of Additional Information for Image of the Natural Polymer Composites	11
<i>Cornelia-Victoria Anghel Drugain, Mohammad Ayaz Ahmad, Vyacheslav Lyashenko</i>	
Comparative Aspects of the Temporal Characteristics of the Production of Various Plastic Products	17
<i>Aurel Băra, Dorian Nedelcu, Corneliu Dica</i>	
Optimizing the Geometry of a LHy-M Hybrid Locomotive's Chassis by Resistance Calculations	25
<i>Aurel Băra, Dorian Nedelcu, Corneliu Dica</i>	
Thermal Calculation of the Reduction Gear 2XAB/StCu110So as Part of Hybrid Locomotive's LHy-M Mechanical Transmission	35
<i>Petru Chioncel</i>	
Exploitation Solution of the Wind Potential in the Danube Gorge	41
<i>Lenuța Cîndea</i>	
Theoretical and Experimental Research on the Reliability of Parts Rehabilitated by Arc Welding	47
<i>Vasile Cojocaru, Ovidiu Jitareanu</i>	
Static and Fatigue Analysis of the Hydraulic Cylinder and Tensile Device from an Uniaxial Testing System	53

<i>Ion Dobrotă, Ion Paraschiv</i>	
Computing of the Slot Number within the Induction Machine Approached in Terms of Electromagnetic Forces	59
<i>Monica-Adela Enache, Aurel Campeanu, Sorin Enache, Ion Vlad</i>	
Aspects regarding Influence of Voltage Disturbances upon Reluctance Synchronous Motors Operation	69
<i>Andrei Ioaneș, Radu Țîrnovan</i>	
Power System Health Monitoring Based on Energy Losses using Genetic Algorithm	77
<i>Marius Savu Lolea, Emeric Remus Szabo, Cornelia-Victoria Anghel Drugarin, Petre Cret</i>	
Assessing the Level of Electromagnetic Pollution through Statistical-probabilistic Methods and Fuzzy Logic	87
<i>Marius Savu Lolea, Emeric Remus Szabo, Cornelia-Victoria Anghel Drugarin, Petre Cret</i>	
Connection of Renewable Energy Sources to the Regional Power Systems. A Short Analyze	99
<i>Ion-Cornel Mitulețu, Elisabeta Spunei, Emanuel Markovican, Ion Popescu</i>	
Quadcopter Stability Increased by PID Adaptive Tuning	107
<i>Ion-Cornel Mitulețu, Adrian Sîrbu, Bogdan Cristian Marinescu</i>	
X-Y Pen Plotter Design Accomplished from Older Drives	113

<i>Filip Niculescu, Adrian Savescu, Mirela Vasile</i> Digital Control of Centrifugal Air Compressors	117
<i>Elisabeta Spunei, Ion Piroi, Florina Piroi, Daniel Brebenariu</i> The Importance of Optimal Design in Outdoor Light Source Positioning	127
<i>Irina Maria Terfăloagă, Mihaela Dorica Stroia, Lenuta Cîndea</i> Sigma-demicontractivity and Strong Convergence of Mann Iteration	137
<i>Gelu Ovidiu Tirian, Cristian Paul Chioncel</i> Fuzzy Logic Controllers for High Performance in Secondary Cooling	143
<i>Cristian Tufisi, Gilbert-Rainer Gillich</i> Modeling of Complex Shaped Cracks	155
<i>Ion Voncilă, Ion Paraschiv, Mădălin Costin</i> Analysis of the influence on the Thermal Regime of the Slot Shape within an Induction Machine	163