

Table of contents

<i>Olga Ioana Amariei, Codruța Oana Hamat, Pascal Duval</i> Optimal Solutioning Mode of the Assignment Problems	9
<i>Viorel Andrei, Nicoleta-Gabriela Rodicichin</i> Velocity Domain Determination of a Waterline Plane Using Continuous Sources	15
<i>Cornelia Victoria Anghel</i> An Oriented Object Application	21
<i>Cornelia Victoria Anghel</i> Code description of a C++ Object Oriented Program	27
<i>Silviu Dan Avram, Ioan Ciorba</i> Methods of Manufacturing Technology for Active Compounds Plates of Stamps and Molds	31
<i>Vasile Bacria, Nicolae Herișanu</i> Phonic Attenuation due to Screen-Barriers	35
<i>Adrian Blaga, Valentin Oleksik, Octavian Bologa, Radu Breaz</i> Experimental Studies and FEM Analysis Regarding the Influence of Geometric Parameters on Strain, Thickness Reduction and Forces in Incremental Forming Process	43
<i>Bukola Olalekan Bolaji</i> Mathematical Modelling and Experimental Investigation of Collector Efficiency of a Thermo-syphonic Solar Water Heating System	55
<i>Antoaneta Butuza, Ileana Hauer, Cornelia Muntean, Adina Popa</i> Increasing the Business Performances using Business Intelligence	67
<i>Cristian Paul Chioncel, Petru Chioncel, Nicoleta Gillich, Thomas Nierhoff</i> Overview of Classic and Modern Wind Measurement Techniques, Basis of Wind Project Development	73

<i>Lenuța Cîndea, Cornel Hațiegan, Constantin Marta, Monica Roșu</i>	
Research on the Calculus of the Equivalent Strain of an Elasto-Tactile System for the Monitoring of the Play / Joint during Welding	81
<i>Liviu Coman, Codruta Hamat</i>	
The Influence of Distance between Electrodes at Electrohydraulic Forming	87
<i>Liviu Coman</i>	
Using the Initiation System of Electrical Discharge in the Case of Electrohydraulic Forming	93
<i>Mirela Danubianu, Tiberiu Socaciu</i>	
Efficient Selection of Data Mining Method	101
<i>Ionel Dragomirescu, Cosmin Laurian Ungureanu, Valentin Nedelea</i>	
The Control of Voltage and Frequency of Self-excited Three-Phase Induction Generator	109
<i>Sava Ianici, Draghița Ianici, Milan Banić, Aleksandar Miltenović</i>	
Virtual Product Development on Venturi Pump	115
<i>Adrian Irimescu</i>	
Adaptive Control Strategy for Dual-Fuel Stationary Spark Ignition Engines	125
<i>Siniša Kuzmanović, Sava Ianici, Milan Rackov, Draghița Ianici</i>	
Typical Method of Connection of Electric Motor-gear Unit in the Frame of Universal Motor Gear Reducer	131
<i>Constantin Marta, Ioan Ruja, Marius Tufoi, Viorel Bizau, Lenuta Suciu, Monica Rosu</i>	
Determining the Temperature Variation of the on the Wall of the Casting Mould during the casting of the Hadfield Steel	141
<i>Feiza Memet, Daniela-Elena Mitu</i>	
First Law Analysis of a Two-stage Ejector-vapor Compression Refrigeration Cycle working with R404A	151
<i>Ion-Cornel Mituletu, Ion Vela, Daniel Gheorghe Vela, Virgil Dan Caramidaru</i>	
A Software Model Proposed for the Contact Stress	157

Calculation of Xylan 1052-coated Toothed Wheels	
<i>Arina Negoitescu, Adriana Tokar</i>	
Catalysts Efficiency Evaluation by using CC Analysis Test	163
<i>Florica Novăcescu</i>	
Connecting the Web Pages to Databases	171
<i>Florica Novăcescu</i>	
High-performance Scientific Computing using Parallel Computing to Improve Performance Optimization Problems	181
<i>Ion Piroi, Elisabeta Spunei</i>	
Voltage Fluctuations Synchronous Hydro Autonomous in a Concrete Building	193
<i>Andrei Romanescu, Adrian-Ioan Toma</i>	
Power System Fault on Modern Numerical Relays	199
<i>Ioan Ruja, Ladislau Augustinov, Ion-Cornel Mitulețu</i>	
Study Regarding the Identification of the Induction Motor	205
<i>Elisabeta Spunei, Ion Piroi</i>	
Rapid Calculation Program of Certain Sizes used in design of Synchronous Generators	211
<i>Adriana Tokar, Arina Negoitescu</i>	
The Importance of Thermal Heat Bridges in Civil Engineering	227
<i>Adrian-Ioan Toma, Andrei Romanescu</i>	
Improving the Quality of Electric Energy to Electric Arc Furnace	235
<i>Marius Tufoi, Ion Vela, Constantin Marta, Cornel Mitulețu, Viorel Bizau</i>	
Design, Optimization and Development of Assemblies for Continuous Casting Facility using Techniques CAD, CAM and CAE	243
<i>Gino Stefano Verrocchi, Daniel Amariei, Athanasios Kalogeras</i>	
WidetheSEE – Gateway for Solar Thermal Energy Exploitation	251