Table of Content

About Some Statistical Laws of the Processing of Experimental	11
Data of Complex Systems	
Netelve Negter Alle Morgulie	
Natarya Nestor, Ana Morguns	
Simulation of the Structure of Proton-Exchange Membrane Fuel	18
Cell by Microlevel Cellular Models	
Nazariy Jaworski, Uliana Marikutsa,	
Ihor Farmaha, Volodymyr Karkulovskyy	
Analysis of Steady-States of Continuous-Time Impulse K- Winners-Take-All Neural Network Pavlo Tymoshchuk	20
Basic Principles of Functioning of the Hybrid Cryptographic	27
System Olevender Polei	
Olexander Belej	
Different Control of the Semi-Active Vibration Absorber	31
Bohdan Diveyev, Mykhajlo Hlobchak,	• -
Ivan Kernytskyy, Gennadij Cherchyk	
Magnete Pheelogical Materials Dynamic Properties	22
Investigation Using Refined Layer Wise Theory	55
Bohdan Divevev. Orest Horbay	
Ihor Konyk, Ihor Velhan	
Numerical Simulation of Separated currents and Heat Transfer	35
in a Channel with Discrete Roughness	
Natalia Sidenko, Egils Dzelzitis	
Architecture of Memory Blocks for Hardware Implementation of	42
Partially Parallel Fuzzy ART Neural Network	
Šerhii Shatnyi, Pavlo Tymoshchuk	
Designing of 7 Asis Couch Dains MEMC Associate	40
Designing of Z-AXIS COMD-Drive INENIS Accelerometer	48
Cozary Iviaj, Ivitoliai Szeriller	

CADMD 2018, October 19-20, 2018, Lviv, UKRAINE

Finite Element Type and the Features of the I-Beam Simulation Influence on the Calculation Results	57
Igor Nevlindov Vladvslav Vevsiejev	
Konstantin Kolesnyk Veliade Salijeva	
Konstantin Kolesnyk, venade Sameva	
Modeling MEMS Membranes Characteristics	61
Igor Nevliudov, Viktoriia Bortnikova,	
Olena Chala, Svitlana Maksymova	
Temperature Distribution on Continuous-Drive Friction Welding Involving Plastic Deformation	69
Andrzej Łukaszewicz	
Possibilities of Modelling Overvoltage Protection Systems in	/5
Electrical Networks	
Michał Borecki, Yuriy Khanas	
Improvement of the Method of Transformation of Numerical Matrices by Algorithm of their Balancing	78
Vurin Khanas Doman Andrin Ivantsin	
i uriy Khallas, Kollali-Andriy Ivalitsiv	
Mathematical Modeling of the Phase Transitions in the Process	82
of Heat-and-Mass Transfer in Anisotropic Materials	
Yaroslav Sokolovskyy, Bogdana Gayvas,	
Iryna Boretska, Igor Kroshnyy	
Software for the Study of Three-Dimensional Assemblies by	89
Using Cellular Automata	07
Varoslav Sokolovskyv, Oleksiv Sinkevych	
r drosidv Sokolovskýý, Oleksiý Slikevých	
Electrical Model of Vibratory Micro Angular	95
Velocity Sensor	
Jacek Nazdrowicz, Mariusz Jankowski	
Definition of the Path with Minimum Total Length on Base the	105
Flows between Nodes of the Network	
Vitaliy Mazur	

8

CADMD 2018, October 19-20, 2018, Lviv, UKRAINE

Lviv Polytechnic National University Institutional Repository http://ena.lp.edu.ua

Recommendation Systems	
Mykhailo Lobur, Mykhaylo Shvarts,	
Yuriy Stekh	

Coventor MEMS+ Application for Simulation Rotational Motion 115 Microsensor

Jacek Nazdrowicz

Lviv Polytechnic National University Institutional Repository http://ena.lp.edu.ua

CADMD 2018, October 19-20, 2018, Lviv, UKRAINE

Lviv Polytechnic National University Institutional Repository http://ena.lp.edu.ua