

Contents

01	<b>Abdallah MOUGAY , Mohamed KHATIR, Mohamed FLITTI, Sid-Ahmed ZIDI, Ahmed Ganoune</b> - Energy management for a new power system configuration of base transceiver station (BTS) destined to remote and isolated areas	1
02	<b>Waldemar DOŁĘGA</b> - Failures of overhead lines in national electric power system – selected aspects	9
03	<b>Marek LEŚNIEWICZ, Tomasz RACHWALIK, Janusz ZABŁOCKI, Wiesław SIERPIŃSKI, Krzysztof SOKOŁOWSKI</b> - Construction problems of modern electronic devices	15
04	<b>Krzysztof WALCZAK<sup>1</sup>, Hanna MOŚCICKA-GRZESIAK<sup>1</sup>, Piotr PRZYBYŁEK<sup>1</sup>, Hubert MORAŃDA<sup>1</sup>, Radosław SZEWCZYK</b> - Frequency Dielectric Response of Aramid Enhanced Cellulose Paper in Aspect of Its Water Content Determination	23
05	<b>Stanisław CZAPP, Daniel KOWALAK</b> - Effect of the let-through energy of overcurrent protective devices on the temperature of conductors during short-circuits	27
06	<b>Stanisław BEDNAREK</b> - “Application of the focused microwave beams to generation of the pulsed high magnetic fields	31
07	<b>Andrzej SZAFRANIEC, Serhii HALKO, Oleksandr MIROSHNYK, Radosław FIGURA, Anton ZHARKOV, Oleksandr VERSHKOV</b> - Magnetic field parameters mathematical modelling of wind-electric heater	36
08	<b>Marek DŁUGOSZ, Michał ROMAN<sup>1</sup>, Paweł WEGRZYŃSKI</b> - Control system of the autonomous vehicle A-EVE	42
09	<b>Charinsak SAETIAW, Suwit PHUCHADUEK</b> - 3D Printed Capsule-shaped Dipole with Multi-Slot Antenna Based on Metallic Filament Material	48
10	<b>Yahia SAADAoui, Boubakeur ZEGNINI, ahmed SEGHIER</b> - Analysis of Dielectric Relaxation Spectra by Diffusive representations method : Case of Organic Dielectrics	52
11	<b>Dyha KAIS, Hakim DENOUN, Mohamed Lamine HAMIDA, Arezki FEKIK, ZoulikhaTEBRI, Malek GHANES</b> - Comparative study of various controllers applied to a three phases parallel multi-cell buck converter	59
12	<b>Kamil KHAYRNASOV</b> - Modeling and analysis of the stress-strain state of robotic systems	66
13	<b>Haripuddin, Ansar SUYUTI<sup>1</sup>, Sri Mawar SAID, Yusri Syam AKIL</b> - MFOA-ABC Hybrid Optimization Method for Dynamic Economic Dispatch of the 150 kV Sulselbar Electrical System	70
14	<b>Wasana BOONSONG</b> - Green Solar Source for Outdoor Environment Monitoring Using Wireless RF 2.4 GHz for Smart Farm Application	79
15	<b>Oleksandr Sinyavsky, Vitaliy Savchenko, Nataliya Solomko, Volodymyr Kisten, Roman Zaloznyi</b> - Influence of electricity quality on technological characteristics of agricultural machines	84
16	<b>EL Mostafa LITIM, Iman. ELAWADY, Samira BELMOKHTAR, Mohamed SENOUCI, Abdelhafid OMARI</b> - Trajectory Planning and Motion Control Schemes for 2DoF Planar Parallel Manipulator Biglide Type with Elastic Joints: A Comparative Study	88
17	<b>Sanee PAWASARN, Angkana CHAROENMEE, Thitiporn JANDA, Suttipong FUNGDETCH Khunpan PATIMAPRAKORN, Adirek JANTAKUN</b> - Implementation of Low-output-impedance Sinusoidal Oscillator and Its Modification for use in Filters	96
18	<b>Sk. Shariful Alam, Shishir Mallick</b> - Analysis of Throughput in Narrowband Cognitive Radio Networks over Fading Channels: A Collaborative Spectrum Sensing Approach	104
19	<b>M. K. Abdulhameed, Muayad Saleem Kod, Ahmed Jamal Abdullah Al-Gburi</b> - Enhancement of elevation angle for an array leaky-wave antenna	109
20	<b>Khalid Subhi Ahmad, Mohamad Zoinol Abidin Abd. Aziz</b> - Frequency Reconfigurable Microstrip Antenna Array Based on Reconfigurable Defected Ground Structure	114
21	<b>Łukasz KĘDZERSKI, Rafał SIKORSKI, Przemysław WYSZKOWSKI, Mateusz BARTELA</b> - Axial Flux Synchronous Motors Test Stand	121
22	<b>Jacek Maciej STANKIEWICZ</b> - Estimating the possibility of maximizing efficiency in the periodic WTP system	128
23	<b>Artur Wodołański</b> - Selected machine learning algorithms for processing the microscopic image of oxidized sewage sludge flocs	134
24	<b>Marek LEŚNIEWICZ, Piotr KOMOROWSKI</b> - Method and system for duplicating random sequences	137
25	<b>Ahmed Jamal Abdullah Al-Gburi, Imran Mohd Ibrahim, Khalid Subhi Ahmad, Zahriladha Zakaria, Mohammed Yousif Zeain, M. K. Abdulhameed, Tale Saeidi</b> - A miniaturised UWB FSS with Stop-band Characteristics for EM Shielding Applications	142