

Spis tre

01	Piotr HELT, Dariusz BACZYŃSKI, Tomasz GULCZYŃSKI², Jacek WIELGOSZ - The influence of the methods of determining technical losses on the optimization of configuration of distribution networks	1
02	Marcin WESOŁOWSKI¹, Wojciech ŻAGAN¹, Tomasz HAJDUK - Testing and modeling of selected heat dissipation systems for high power LED light sources	7
03	Mariusz PAWLAK, Tomasz SOBUTKOWSKI - Analysis of the reliability of the FDIR automation system of medium-voltage lines	12
04	PIOTR KOLENDO, JAKUB GŁUSZEK, MATEUSZ DROP, NATALIA SZEWCZUK-KRYPA, JACEK ARONOWSKI - A new method of wind farm active power curve estimation based on statistical approach	19
05	Andriy CZABAN, Andrzej SZAFRANIEC, Heorhii LYSIAK, Vitaliy LEVONIUK, Vladyslav LYSIAK - A mathematical model of an ultrahigh voltage transmission line taking into account overhead ground wires	27
06	Marcin KOŁODZIEJ, Ernest SZYPUŁA, Andrzej MAJKOWSKI, Remigiusz Rak - Using deep learning to recognize the sign alphabet	32
07	Serhiy KOROBKA, Vitaliy BOYARCHUK, Valerii SYROTIUK, Serhiy SYROTYUK, Igor STUKALETS, Volodymyr GOLOVKO, Hanna SYROTYUK, Tomasz JAKUBOWSKI, Jan GIEŁŻECKI - Use of solar energy in the technology of fruit drying	37
08	Jerzy FIOŁKA - Application of the discrete linear chirp transform (DLCT) to estimate the parameters of multicomponent LFM signals	45
09	Wojciech NITA, Sylwester FILIPIAK - Optimization of the reliability of power electric distribution grids MV with the use of heuristic algorithms	50
10	Maciej LISTOWSKI - The real and modeled values of photometric and colorimetric parameters comparison of white LEDs operating at wide temperature range	57
11	Dominika SZCZEŚNIAK, Piotr PRZYBYŁEK - "Application of nanoparticles for modification of electro-insulating liquids used in power transformers	62
12	Andrzej WIŚNIEWSKI - LED lamps and LED luminaires with remote control	66
13	Michalina KANIA¹, Dariusz KANIA - Trajectory of fifths - a two-dimensional representation of music	70
14	Anna MIERNIK, Paweł KIEŁBASA, Tomasz DRÓZDŹ, Bartłomiej WIŚNIEWSKI - Use of photon emission to identify the degree of microbial contamination of liquid biological substances	74
15	Piotr GRZEJSZCZAK, Marek SZYMCZAK, Adam CZAPLICKI, Mikołaj KOSZEL, Bartosz NOWATKIEWICZ - EHES - Innovative and ecological hybrid power module for electric vehicle and machines	78
16	Marcin WESOŁOWSKI, Michał CZERWIŃSKI - Selected aspects of resistance vacuum furnaces modeling	84
17	Suparlerk YAMTIM, Siraphop TOOPRAKAI - Multi-input Memristor Rationed Logic Full Adder Circuit for Efficient Processing Tim	88
18	Wasana BOONSONG, Narongrit SENAJIT - Remote Patient Body Temperature Monitoring Based-IEEE802.11a Internet of Things (IoT)	95
19	Sarfarož DOVUDOV, Mikhail DUNAEV, Anastasia ZHIRAVETSKA, Oleksandr PLAKHTII, Rustam Yunusov, Murodbek SAFARALIEV - Analysis and comparison of energy indices of dc-dc pulse converters	99
20	Stanilav Girshin, Oleg Kropotin, Maksim Anisimov, Aleksandr Bigun, Elena Petrova, Vladislav Trotsenko, Vladimir Goruyunov - Optimal selection of static capacitors battery and compensation factor depending on the network resistance	104
21	Sitthidech LAOJUM, Adirek JANTAKUN, Angkana CHAROENMEE, Suphaphorn PANIKHOM, Khunpan PATIMAPRAKORN - Designed and Practiced a Voltage-mode Sinusoidal Oscillator using Commercially Available ICs	109
22	Asma BENHEMINE, Hamza TEDJINI, Cherif BENOUDJAFER, Mohamed Amine BOUZAR - Performances comparison of BLDC and BLAC motors based matrix converter	116
23	Riza Agung FIRMANSYAH¹, 2. Yuliyanto Agung PRABOWO² 3. Titiek SUHETA - Thermal Imaging-Based Body Temperature and Respiratory Frequency Measurement System for Security Robot	126
24	Omsri Vinasha ALIYASELVAM, Siti Aisah MAT JUNOS, Faiz ARITH¹, Nurhazwani IZLAN, Muzalifah MOHD SAID, Ahmad Nizamuddin MUSTAFA - Optimization of Copper(I) Thiocyanate as Hole Transport Material for Solar Cell by Scaps-1D Numerical Analysis	131
25	Vasily YUDIN, Nikolay OSAVCHUK, Anton VOLKOV - Characteristics of angular panorama of errors in the phase difference direction finding of two-point coherent emitter	136
26	Sergey GOOLAK, Oleg GUBAREVYCH, Oleksandr GOROBCHENKO, Oleksandr NEVEDROV, Kateryna KAMCHATNA-STEPANOVA - Investigation of the influence of the quality of the power supply system on the characteristics of an asynchronous motor with a squirrel-cage rotor	142
27	Zwawi HAMADOUCHE, Mounir KHIAT, Abdelkader CHAKER - Nonlinear controllers design for plug-in hybrid electric vehicle of selected microorganisms on geometric structure of cells	149
28	Mariusz BRATKOWSKI, Zbigniew FRĄCKIEWICZ, Piotr MARECKI³ - The system for monitoring of the efficiency of photovoltaic station	158
29	Salem GAHGOUH, Hedi RAGAD, Imen SAIDI, Ali GHARSALLAH - Study and Analysis of a Novel Compact Cubic Antenna Design for WSN Applications	164
30	Andi Muhammad ILYAS², Ansar SUYUTI, Indar Chaerah GUNADIN, Sri Mawar SAID - Real-Time Optimal Power Flow of South Sulawesi Network System That Integrated Wind Power Plant Based on Artificial Intelligence	168
31	Hamsa Fawaz Thanoon, Noor Alhuda S. Al-Jammas, Ahmed M A Sabaawi - Performance Optimization of MASnI3-based Perovskite Solar Cells	172
32	Mochamad Ashari, Miftah Y. Fauzan - High Gain of Single-switch Voltage Multiplier Converters for DC Power Supply Applications	176