

PRZEGŁĄD ELEKTROTECHNICZNY Vol 2018, Nr 1

Spis tre

01	Mykhaylo ZAGIRNYAK, Viktoriya KOVALCHUK, Tetyana KORENKOVA - The automation of the procedure of the electrohydraulic complex power harmonic analysis	1
02	Borys BOROWIK - Power related to strain in tubular charges with conductive dies in the process of electrodynamical metal forming	5
03	Paweł CAŁA, Paweł BIEŃKOWSKI - The concept and design of an interstitial microwave hyperthermia antenna with directional radiation characteristics	9
04	Antoni CIEŚLA, Mikołaj SKOWRON - Magnetic fields as a source of energy in superconducting magnetic energy storage	13
05	Andriy CZABAN, Marek LIS, Marcin CHRZAN, Andrzej SZAFRANIEC, Vitaliy LEVONIUK - Mathematical modelling of transient processes in power supply grid with distributed parameters	17
06	Andriy CZABAN, Marek LIS - The use of the Hamilton formalism for modelling of power systems with a synchronous motors and susceptible transmission of mechanical power	21
07	Ivo DOLEŽEL, Václav KOTLAN, Roman HAMAR , David PÁNEK - Numerical Solution of Electroheat Problems with Time-varying Geometries	25
08	Paweł DRZYMAŁA, Henryk WELFLE - Calculation and experimental verification of additional losses occurring in the tie plate of yokes a large transformers	29
09	Janusz FLASZA, Paweł MATUSZCZYK - Electromobility in Polnad in the light of RES systems	33
10	Aleksander GĄSIORSKI, Zdzisław POSYŁEK, Paweł KIEŁBASA - Problems of voltage asymmetry of high frequency capacitor banks used for induction heating	37
11	Paweł JABŁOŃSKI, Dariusz KUSIAK, Zygmunt PIĄTEK, Tomasz SZCZEGIELNIAK - The effect of busbar shape and arrangement on currents and power losses in 3-phase busducts with two busbars per phase	41
12	Arkadiusz JANKOWSKI, Konrad JĘDRYS, Joanna KOZIEL – Iron –based superconductors – development prospects	45
13	Tomasz KĄDZIOŁKA, Maciej KRYŚ, Artur WIERTEK - Analysis of power loss and temperature distribution in low voltage switchgear – coupled analysis EM + CFD in ANSYS software	49
14	Grzegorz KOMARZYNIEC, Michał MAJKA - The influence of the geometry and resistance of the high voltage winding of the HTS transformer on the inrush current parameters	53
15	Ewa KORZENIEWSKA, Ilona GAŁAZKA-CZARNECKA, Andrzej CZARNECKI, Agnieszka PIEKARSKA, Andrzej KRAWCZYK - Influence of PEF on antocytans in wine	57
16	Andrzej KRAWCZYK, Ewa KORZENIEWSKA, Ewa ŁADA-TONDYRA - Magnetophosphenes – history and contemporary implications	61
17	Klaudia KUCZEK, Danuta PLIŚ - Simulation study of brushless doubly-fed machine (BDFM)	65
18	Paweł NIEDBALSKI, Łukasz KARPIŃSKI, Paweł OGNIEWSKI, Stefan F. FILIPOWICZ - Use of spectral analysis for the CFM / aEEG trend	69
19	Henryk NOGA, Dominika OLSZEWSKA, Paweł PTAK, Tomasz PRAUZNER, Piotr MIGO - Study and simulation of electromagnetic field interactions on microbial growth	73
20	Anna PŁAWIAK-MOWNA, Małgorzata MAZURKIEWICZ - On Effectiveness of Human Cell Nuclei Detection Depending on Digital Image Color Representation	77
21	Andrzej POPENDA - Modelling of BLDC motor energized by different converter systems	81
22	Andrzej POPENDA - Modelling of multi-phase BLDC motor	85
23	Tomasz PRAUZNER, Paweł PTAK - Modeling and simulation of the magnetic field induction sensor	89
24	Tomasz RYMARCZYK, Przemysław ADAMKIEWICZ, Jan SIKORA - Implementation Image Analysis and Optimization Techniques in e-Medicus System	93
25	Tomasz RYMARCZYK, Jakub SZUMOWSKI, Przemysław ADAMKIEWICZ, P TCHÓRZEWSKI, Jan SIKORA - Moisture Wall Inspection Using Electrical Tomography Measurements	97
26	Ryszard SIKORA , Stanisław PAWŁOWSKI - On certain aspects of application of fractional derivatives in the electromagnetism	101
27	Witold SYGOCKI, Ewa KORZENIEWSKA - Impact Factor (IF) true or false?	105
28	Dariusz SZTAFROWSKI, Kazimierz KULICZKOWSKI, Bożena JAŹWIEC, Jacek GUMIELA - Effect of static magnetic field and Busulfan on HL- 60 cell apoptosis	109
29	Dariusz SZTAFROWSKI, Jacek GUMIELA - Analysis of technical possibilities of reduction of the corona effect based on digital simulations of the electric field intensity by phase wires of overhead power lines	113
30	Mykhaylo ZAGIRNYAK, Viacheslav PRUS - The special features of the change of electromagnetic parameters of electric machines with long mean-time between failures	117
31	Bartłomiej ZUBRZAK, Paweł BIEŃKOWSKI - 50 Hz pulse magnetic field measurements –metrological possibilities of magnetic field meters	121
32	Ryszard KACPRZYK, Agnieszka PLEBAN-OKOPNA - Dependence of the piezoelectric coefficient d_{33} on the static pressure for non-uniform polymeric layered structures	125
33	Krzysztof PRZYBYŁA - Verification of power losses in the gate circuit in selected MOSFET transistors based on Si and SiC	129
34	Zbigniew ŁUKASIK, Andriy CZABAN, Andrzej SZAFRANIEC, Wołodymyr ŻUK - The mathematical model of the drive system with asynchronous motor and vertical pump	133
35	Joanna KULAWIK - Comparison of selected methods of characteristic point detection in satellite images	139
36	Bogdan SAPIŃSKI, Andrzej MATRAS - Numerical analysis of harvester with linear magnetorheological damping	144
37	Krzysztof MAKOWSKI, Aleksander LEICH - Improving performance of a single-phase self-excited induction generator by modification of an excitation winding	148
38	Irbulat UTEPBERGENOV, Maksat KALIMOLDAEV, Ioulia SKLIAROVA, Waldemar WÓJCICKI, Shara TOIBAYEVA, Aimira MUSLIMOVA, Lyazzat ISSABEKOVA - Intelligent management system of production and quality products for the small and medium business enterprises	152
39	Sunny KATYARA¹, Lukasz STASZEWSKI², Jamshed ANSARI¹, AfaqueSOOMRO¹, Faheem AKHTAR - Technical & economical evaluation of solar powered LED street lights: An overlook contributor to load-shedding	157
40	Georgy LISACHUK, Ruslan KRYVOBOK, Yaroslav PITAK, Olena LAPUZINA, Irina GUSAROVA, Lidiya LISACHUK, Andrey GREBENYUK - Ceramics with adjustable dielectric properties based on the system SrO – TiO ₂ – SiO ₂	163
41	Oleksandr MOLNAR, Vitaly GERASIMOV , Igor Piotr KURYTKI - Triboelectricity and construction of power generators based on it	167