

PRZEGLĄD ELEKTROTECHNICZNY (Electrical Review) Vol 2011, No 12a

Contents

01	Antoni CIEŚLA - Supeconductivity in its 100 th anniversary: exemplary applications	1
02	Barbara FLORKOWSKA, Marek FLORKOWSKI, Paweł ZYDRON - Detection and analysis of partial discharges at fast changing voltage stresses	7
03	Bronisław TOMCZUK, Jan ZIMON, Dawid WAJNERT - Comparison for two kinds of coil configurations for a 12 pole active magnetic bearing	11
04	Krzysztof MARCINEK - Design and Implementation of ZigBee Solution for Last-Mile Problem in Automatic Meter Reading	15
05	Çetin GENÇER, Serkan GÜRKAN - The Application of a Microcontroller based Electrofusion Welding Machine	21
06	Yoichiro IWASAKI, Toshiyuki NAKAMIYA, Ryosuke KOZAI, Fumiaki MITSUGI, Tomoaki Ikegami - An image analysis algorithm to measure the diameters of carbon nanotubes	25
07	Masato ENOKIZONO - Vector magnetic characteristic technology in Oita University for development of low loss and high efficiency machines	30
08	Beata PAŃCZYK, Jan SIKORA - Numerical integration for symmetric Galerkin Boundary Element Method	36
09	Agnieszka LASOTA - Why α -activity diagrams, α -nets and s-nets are good models of production processes?	40
10	Václav KOLÁŘ, Stanislav KOČMAN - Filtration of harmonics in traction transformer substations, positive side effects on the additional harmonics	44
11	Iwona GROBELNA - Formal verification of embedded logic controller specification with computer deduction in temporal logic	47
12	Omelian PŁACHTYNA, Zbigniew KŁOSOWSKI, Roman ŻARNOWSKI - Mathematical model of DC drive based on a step-averaged voltage numerical method	51
13	Traian MUNTEANU, Romeo PADURARU, Emil ROSU, Marian GAICEANU, Teodor DUMITRIU, Cristian DACHE - Energy Saving Control for DC Motor Drive Systems	56
14	Kultar Deep SINGH, Smarajit GHOSH - A New Efficient Method for Load-Flow Solution for Radial Distribution Networks	66
15	Samet BIRICIK, Özgür Cemal ÖZERDEM - A Method for Power Losses Evaluation in Single Phase Transformers under Linear and Nonlinear Load Conditions	74
16	Marek ADAMIEC - Operational problems and damage of fuel cells	78
17	Roman KROK - Thermal models used for turbogenerator design	83
18	Przemysław TABAKA - How to choose the energy saving equivalent for the traditional light bulb?	88
19	Eliżbieta GRZEJSZCZYK - The TeleServices Communications with the car	94
20	Jerzy NABIELEC - Błąd metody w zadaniu identyfikacji właściwości dynamicznych czujnika	99
21	Sławomir MANDRA, Krzysztof KARWOWSKI - A method of tuning position and velocity servo-drive controller in CNC systems	104
22	Javier GALLARDO-LOZANO, Maria Isabel MILANÉS-MONTERO, Miguel Angel GUERRERO-MARTÍNEZ, Enrique ROMERO-CADAVAL - Non-disturbing bidirectional charger for PHEVs and EVs	111
23	CAO HAI-YAN - Virtual admittance Based Current Control Strategy for Grid-connected inverters in Microgrid	117
24	Mohammad Ali TAGHIKHANI - Modeling of Heat Transfer in Layer-Type Power Transformer	121
25	Miroslaw GAJER - Determining the working points of bipolar transistors with the use of the evolutionary strategy	124
26	Krzysztof Leonard CHRZAN - Pollution accumulation on silicone rubber and on porcelain insulators	129
27	Ji SHENGCHANG, Wang YUANYUAN - Design of Measurement System and Characteristics Research on the Pulse Current of Composite Insulator	133
28	Zdenek MARTINASEK, Tomas MACHA, Ondrej RASO, Josef MARTINASEK, Pavel SILHAVY - Optimization of differential power analysis	140
29	Pavel SILHAVY, Ondrej KRAJSA, Petr SYSEL, Martin KOUTNY - Overlapped filtered multitone modulation and its optimization on VLIW DSP	145
30	Goran POPOVIC, Stefan PANIC, Jelena ANASTASOV, Mihajlo STEFANOVIC, Petar SPALEVIC - Cooperative MRC diversity over Hoyt fading channels	150
31	Milan SAVIC, Zoran PERIC, Stefan PANIC - Quantizer design for multilevel BTC	153
32	Aleksandar Č. ŽORIĆ, Đurđe PERIŠIĆ, Slobodan OBRADOVIC, Petar SPALEVIC - PC-Based Virtual DTA Recording System Design	156
33	Mohammad REZA MOSAVI - Error Reduction for GPS Accurate Timing in Power Systems using Kalman Filters and Neural Networks	161
34	Fei CHEN, Bin ZHOU, Zhi-chun QIN - Research on the Mechanism of Pin-to-Pin ESD to SCB Initiators	169
35a	Tadeusz PŁATEK - Power system stability with parallel active filter ensuring compensation of capacitive reactive power	173
35b	Zbigniew SZCZEŚNIAK - Control of manipulator drive mechanism in smith forging process	178
36	Jacek ZARUDZKI, Aleksander DZIADECKI, Janusz GRZEGORSKI, Józef SKOTNICZNY - Sensorless control system of SR drive	183
37	Jakub KOŁOTA, Sławomir STĘPIEŃ - Analysis of 2D and 3D Finite Element Approach of a Switched Reluctance Motor	188
38	Vadim N. SHOFFA, Victor N. CICERJUKIN, Bogdan MIEDZINSKI, Xin WANG - The Influence of Actuation on Performance of a Mercury Wetted Reed Switch	191
39	Krzysztof LUDWINEK, Jan STASZAK - Possibility of graphical environment applications for evaluating of equivalent circuit parameters and time constants	195
40	Adam RUDZIŃSKI - Systems with echo cancellation by coupling to receiver's power supply circuit	201
41	Jiri ZACHAR, Jiri DRINOVSKY, Zdenek KEJIK, Vaclav RUZEK - Models of Elements for EMI filters	205
42	Mahir DURSUN, Ahmet FENERCIOGLU - Velocity Control of Linear Switched Reluctance Motor for Prototype Elevator Load	209
43	Maria DEMS, Krzysztof KOMEŻA - Determination of parameters of a high-speed induction motor using the field-circuit and analytical method	215
44	Witold MARAŃDA - Daytime Lighting using Photovoltaic System with Short-term Energy Storage	220
45	Michał KARBOWAŃCZYK - Link-level, congestion avoiding flow control solution for IP networks	225