

2017 18th International Scientific Conference on Electric Power Engineering (EPE)

Thursday, May 18, 2017 - second day of the conference

Session Power Engineering I, II (ROOM 400)

Chairmans: **Karel Noháč** (ZČU Plzeň , CZ) and **Miroslaw Wcislik** (KU Kielce, PL)

Guarantee: **Stanislav Mišák** (VŠB - TU Ostrava, CZ)



Time	No	Authors	Title of paper
8:00 - 9:30	13	Junho Yu, Inwoo Hwang, Namsoo Kim	High Performance CMOS Integrated PWM/PFM Dual-Mode DC-DC Buck Converter
	17	Michał Pająk	Modelling of the Operation and Maintenance Tasks of a Complex Power Industry System in the Fuzzy Technical States Space
	22	Oleg Kudrjavitsev, Toomas Vaimann, Aleksander Kilk, Ants Kallaste	Design and Prototyping of Outer Rotor Permanent Magnet Generator for Small Scale Wind Turbines
	66	Korhan Karaarslan, Birol Arifoglu, Ersoy Beser, Sabri Camur	A Novel 7-Level Cascaded Inverter for Series Active Power Filter
	33	Payam Shams Ghahfarokhi, Ants Kallaste, Anouar Belahcen, Toomas Vaimann	Steady State and Transient Thermal Analysis of the Stator Coil of a Permanent Magnet Generator
	71	Pavel Brandstetter, Martin Kuchar, Hau Huu Vo, Chau Si Thien Dong	Induction Motor Drive with PWM Direct Torque Control
	83	Petru Valentin Radu, Adam Szelag	A Cuk converter integrated with lead-acid battery and supercapacitor for stationary applications
9:30 - 10:00	Coffee break		
10:00 - 11:30	92	Marek Florkowski, Jakub Furgał, Maciej Kuniewski	Simulation of overvoltages transferred through transformers in EMTP-ATP software
	96	Gints Poiss, Sandra Vitolina	Development and implementation of risk indicator for power transformers based on electrical measurements
	121	Miroslaw Wcislik, Michal S. Laskawski	Correction of the on-off control system using PLC
	129	Taha Lahlou, Shah Nawaz Malik, Hans-Georg Herzog	Simulation and Analysis of Control and Modulation Schemes for a Multilevel Cascaded H-Bridge Inverter for use in a Battery Energy Storage System
	179	Ales Havel, Martin Sobek, Petr Chamrad	Power Converters for Coupling Hydrogen-based Technologies with Lead-acid and LiFePO4 Batteries
	166	Lucjan Setlak, Rafał Kowalik	Mathematical modeling and simulation of selected components on-board autonomous power supply system (ASE), in accordance with the concept of a More Electric Aircraft (MEA)

