

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

Wednesday, May 17, 2017 - first day of the conference

Short Presentation – Power Engineering (ROOM 500)

Guarantee: **Aleš Havel** (VŠB - TU Ostrava, CZ)

Chairman: **Petr Bernat** (VŠB – TU Ostrava, CZ)



Time	No	Authors	Title of paper
15:30 - 16:45	20	Lukas Veg, Jan Laksar, Roman Pechanek	Overview of Different Concepts of Traction Drives with regard to High-Speed PMSM
	37	Jan Otýpka, Pavel Pečínka, Petr Orság, Vítězslav Stýskala	The Influence of Nonharmonic Voltage Source on Losses in Induction motor
	61	Jan Laksar, Jan Sobra, Lukas Veg	Numerical Calculation of the Effect of the Induction Machine Load on the Air Gap Magnetic Flux Density Distribution
	65	T. Urica, A. Simonova, S. Kascak	Control design and simulation of continuous systems
	68	Pavel Pečínka, Stanislav Kocman, Petr Orság, Jan Otýpka	Solutions to Increase the Efficiency of Induction Motors
	93	Pavel Karlovsky, Jiri Lettl	Improvement of DTC Performance Using Luenberger Observer for Flux Estimation
	101	T. Laskody, R. Konarik, M. Pridala, M. Jarabicova, J. Sedo	Topologies of converters for two-phase AC motors
	123	Petr Hawliczek, Dung Vo Tien, Radomir Gono	Creating and Measuring Unipolar and Bipolar Ultra-Low Voltage Step-Up Converters
147	J. Bauer	Induction Machine Island Mode Working Generator with Matrix Converter	
16:45 - 17:15	Coffee break		



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

Wednesday, May 17, 2017 - first day of the conference

Short Presentation – Power Engineering (ROOM 500)

Guarantee: **Aleš Havel** (VŠB - TU Ostrava, CZ)

Chairman: **Petr Bernat** (VŠB – TU Ostrava, CZ)



Time	No	Authors	Title of paper
17:15 - 18:30	167	Ales Havel, Martin Sobek, Petr Chamrad	Control Methods of Modern Systems Utilizing Accumulation of Electrical Energy
	169	Michal S. Laskawski, Mirosław Wcislik	New optimal settings of PI and PID controllers for the first-order inertia and dead time plant
	181	Petr Bernat, Petr Kačor, Martin Koutný, Zdeněk Hytka, Tomáš Pavelek	Adjustment of pull characteristics of lever magnet with variable reluctance
	182	Vaclav Sladeczek, Martin Kuchar, Petr Palacky	LiFePo battery charger with controlled rectifier
	192	Lukas Cesky, Frantisek Janicek, Juraj Kubica, Filip Skudrik	Overheating of primary and secondary coils of voltage instrument transformers
	78	Roman Cimbala, Lukáš Kruželák, Samuel Bucko, Michal Kosterec	The Impact of Electromagnetic Radiation on the Dielectric Properties of Magnetic Nanofluids
	179	Ales Havel, Martin Sobek, Petr Chamrad	Power Converters for Coupling Hydrogen-based Technologies with Lead-acid and LiFePO4 Batteries

