

# ELECTRIC POWER ENGINEERING 2013



Thursday, May 30, 2013 - third day of the conference

Session Power Engineering I, II (ROOM 500)

Chairmans: Alena Otčenášová (ŽU Žilina, SK) and Karel Noháč (ZČU Plzeň, CZ)

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

Time	No	Authors	Title of paper
8:30 - 10:00	22	Ludmila Lavrinovicha, Janis Dirba, Nikolay Lavrinovich	Magnetostatic Analysis of Surface -Mounted Permanent Magnet Motor with External Rotor for Use in Electric Hand Planner
	10	Ramia Deeb, Marcel Janda, Zbynek Makki	Design of Cooling System of Permanent Magnet Servo Motor
	47	Vaclav Kus, Martin Pittermann, Jiri Fort	Resistance of electric drives with asynchronous motors and frequency converters against voltage dips
	75	Bohumir Hana	Investigation on a Low Lifespan of a Brushed DC Motor for Wheelchairs
	24	Pavel Brandstetter, Pavel Rech	Application of AC Drive with Low Voltage PMSM in Small Electric Car
	84	Jan Veleba, Vladislav Sířař, Karel Noháč	Application of Alternative Tools for Basic Load Flow Analysis
10:00 - 10:30	Coffee break		
10:30 - 12:00	140	Martin Mach, Vítězslav Hájek	Impact of Magnetic Circuit Steel Grade on Single-Phase Induction Motor Efficiency
	23	Igor Brilla	Numerical Determination of Voltage Potential Inside Nonhomogeneous Media
	32	Ondřej Krpal Eva Kučerová	Measurement of loss factor and relative permittivity of the stator bar samples for a research of anticorona protections in the end of winding
	51	Josef Pihera, Petr Mráz, Rainer Haller	Partial Discharges Under AC and DC Test Conditions
	92	Vendula Mužíková, Tomáš Glasberger, Václav Šmídl, Zdeněk Peroutka	Direct torque control of PMSM with speed and position sensorless estimation

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INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ