

EEICT 2009

Obsah

Předmluva

Doktorské projekty

Kybernetika a automatizace

Dvořáček, M.

Directly Implementation Self-Tuning LQ Controller from Simulink into B&R PLC

Fidler, P.

EMAT-EMAT System Parameters Measurement

Hliněný, P.

VOA MEMS Tester

Chomát, L., Malounek, P.

Intelligent House and its Environment Control System

Lorenc, V

Improving Performance of the On-Line Neural Network Identification Using Selection of Patterns in the Training Set

Malounek, P., Chomát, L.

Application for Data Collection from PLC

Polách, P., Pohl, J.

Artificial Intelligence Simulation Platform

Skula, D.

Data-Fusion for Rotation Measurement in Three Degrees of Freedom

Valenta, J.

Learning algorithm for rule-based knowledge-bases

Silnoproudá elektrotechnika a elektroenergetika

Bartošík, T.

Carbon Dioxide Capture Technologies

Belatka, M.

The Advancement of Wind Power Plants in the Czech Republic

Bok, J.

Appliances Immunity to Real-World Voltage Dips and Short Interruptions in Public Supply Networks

Cipín, R., Běloušek, J.

Influence of a Skin Effect in the Squirrel Cage on a Speed-torque Characteristics of the Induction Motor

Huzlík, R.

Comparison of PMSM and Induction Machine Based on Generalized Sizing Equation

Mikulčík, A.	Aeration System Control of a Waste-Water Treatment Plant, Model Selection
Mustafa, A., Jiří, S	Speed Control of DC Motor Using Combined Armature and Field Control
Pernica, D.	Contactless Earth Fault Indicator
Pithart, J.	Integration and Utilization of the Smart Grid
Radil, L.	The Electric Energy Storage
Skalka, M.	Magnetic Circuit Saturation of Induction Machine due to the Rotor Position
Šlezinger, J.	Flickermeter Design in Lab View
Těžký, J.	Analysis Penalization Costs in Distribution Network
Topolánek, D.	Ground Fault Location by Electromagnetic Field Evaluation
Vondruš, J.	Bifurcation Structure of DC Microdrives

Teoretická elektrotechnika, fyzika a matematika

Bogatyreva, N.	Temperature Determination in Electric Arc
Fiedl, M.	Active Band-pass Coupled Filters
Knápek, A.	Fabrication and Noise Diagnostics of Schottky Cathodes
Krčál, O.	Study Of Radiation Spectrum Emitted From Local Regions In PN Junctions FEN ..
Kriz, T.	Comparison of Numerical Methods Used in the Light Systems
Paračka, P.	Nondestructive Noise Diagnostics of Solar Cells
Roubal, Z.	New Construction of Gerdien Tube with Active Shielding and Ion-Trap
Škarvada, P.	Advanced Method of Scanning Probe Microscopy Image Restoration
Tofel, P.	Electro-Ultrasonic Spectroscopy for Testing Quality of Resistives Materials
Trčka, T.	Continual Multi-Channel Measurement of Electromagnetic and Acoustic Emission Signals in Solid Dielectric Materials

Mikroelektronika a technologie

Bohrn, M.

Neural Network Accelerator in FPGA Chip

Čudek, P.

Scintillation Secondary Electron Detector for Variable Pressure Scanning Electron
Microscope

Dvořák, P.

Preparation and Properties of Carbon Based Electrodes for Supercapacitors

Knotek T.

Electrocatalytic Properties of Thin Ni-zn Alloy

Kunovjánek, M.

Membrane electrolyzer for hydrogen production

Macalík, M.

Benefits of H₂O₂ in Thin Film SnO₂ Preparation

Macků, R.

Extended Electrical and Thermal Properties of Single Junction Silicon Solar Cells .

Stejskal, P.

Measurement of the Wettability of Electrolytes

Špičák, P.

The Cobalt Influence in Nickel Hydroxide Electrode

Veselý, A., Vaněk, J., Jandová, K.

Analysis of Back Side Contact Imaging Phenomenon in LBIC

Vognar, J.

NMR response for Na⁺ ions in PMMA gel electrolytes