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**TECHNICAL ELECTRODYNAMICS  
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**Subject Categories: Theoretical electrical engineering and electrophysics**

**Title:** [Numerical Simulation of Electric Currents, Magnetic Field and Electrodynamical Forces in Power Transformer at Emergency Operation Using MATLAB/SIMULINK AND COMSOL](#)

**Authors:** PODOLTSEV A.D., KONTOROVICH L.N.

**Source:** Tekhnichna Elektrodynamika 6: 3–10, 2011

**Subject Categories: Conversion of electric energy parameters**

**Title:** [Continuous Approximate Model of AC/DC Converters with Active Power Factor Correction](#)

**Authors:** SHYDLOVSKYI A.K., ZHARKIN A.F., PAZIEIEV A.G.

**Source:** Tekhnichna Elektrodynamika 6: 11–17, 2011

**Title:** [Conditions of Development of Sensorless Electromechanical Systems on the Basis of Permanent Magnet Brushless Motors](#)

**Authors:** AKININ K.P.

**Source:** Tekhnichna Elektrodynamika 6: 18–23, 2011

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**Title:** [Induction Generators for Autonomous Welding Complexes. Theory Development and Investigation](#)

**Authors:** MAZURENKO L.I., DZHURA O.V.

**Source:** Tekhnichna Elektrodynamika 6: 24–30, 2011

**Title:** [Macromodeling of Dynamic Processes in Asynchronous Machines](#)

**Authors:** STAKHIV P., VASYLCHYSHYN I.

**Source:** Tekhnichna Elektrodynamika 6: 31–35, 2011

**Subject Categories: Electric power systems and installations**

**Title:** [Modelling of Synchronous Area Interconnection During the Restoration of Interconnected Power System of Ukraine After Blackout](#)

**Authors:** KYRYLENKO O.V., PAVLOVSKYI V.V., STELIUK A.O., BATALOV A.G.

**Source:** Tekhnichna Elektrodynamika 6: 36–40, 2011

**Title:** [Influence of the Components of Measuring Channel on the Measuring Error of Voltage Phasors](#)

**Authors:** TANKEVYCH Ye.M., VARSKYI G.M., YAKOVLEVA I.V.

**Source:** Tekhnichna Elektrodynamika 6: 41–47, 2011

**Title:** [Transient Stability of a Gas-Turbine Power Station with Combined Cycle at Alchevsk](#)

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**Authors:** AVRAMENKO V.M., GUREEVA T.M.

**Source:** Tekhnichna Elektrodynamika 6: 48–54, 2011

**Subject Categories:** Information-measuring systems in power engineering

**Title:** [Modern Information Technologies for Tasks of Electrical Engineering and Increase of Reliability of Power Electrical Equipment](#)

**Authors:** SHYDLOVSKA N.A., VASETSKYI Yu.M., MYSLOVYCH M.V., KHIMIUK I.V.

**Source:** Tekhnichna Elektrodynamika 6: 55–70, 2011

**Title:** [The Laser Frequency-Phase Displacement and Vibration Controllers with Optical Calibration](#)

**Authors:** BRAHYNETS I.A., ZAITSEV E.A., KONONENKO A.H., MASIURENKO Y.A., NIZHENSKY A.D.

**Source:** Tekhnichna Elektrodynamika 6: 71–77, 2011

**Title:** [Nonlinear Mathematical Model of The Electrochemical Capacitor](#)

**Authors:** MARTYNIUK V.V.

**Source:** Tekhnichna Elektrodynamika 6: 78–82, 2011

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