
□ 6

TECHNICAL ELECTRODYNAMICS 2011

CONTENTS

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

Subject Categories: Electromechanical energy conversion

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](#)

Metallurgy Combined Plant

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

Title: INDEX of Papers in 2011

Source: Tekhnichna Elektrodynamika 6: 83–88, 2011

Institute of Electrodynamics, 2011