☐ 4 TECHNICAL ELECTRODYNAMICS 2015

CONTENTS

Subject Categories: Theoretical electrical engineering and electrophysics

Title: Processes of energy redistribution between parallel connected capacitors

Authors: SUPRUNOVSKA N.I., SHCHERBA A.A. **Source:** Tekhnichna Elektrodynamika 4: 3–11, 2015

Title: Improved method for calculation of parameters of electromagnetic and power processes

in electric circuits with steel in saturation mode
Authors: ZAGIRNYAK M., PRUS V., MILJAVEC D.
Source: Tekhnichna Elektrodynamika 4: 12–18, 2015

Title: Modeling of the magnetic nanoparticles dynamics by separation **Authors:** BONDAREVSKYI S., KONDRATENKO I., TOLMACHEV S.

Source: Tekhnichna Elektrodynamika 4: 19-24, 2015

Subject Categories: Conversion of electric energy parameters

Title: Creating a matrix converter input current in sliding mode when the mains voltage

unbalance

Authors: MYSAK T.V., MYKHALSKYI V.M.

Source: Tekhnichna Elektrodynamika 4: 25–30, 2015

Title: Multiphase power conversion system with hybrid switching strategy of modulated

inverters

Authors: OLESCHUK V., ERMURATSKII V.

Source: Tekhnichna Elektrodynamika 4: 31–35, 2015

Subject Categories: Electromechanical energy conversion

Title: Comparative analysis of energy efficiency of induction motors direct field-oriented torque controllers with torque per ampere maximization

Authors: PERESADA S.M., KOVBASA S.M., DYMKO S.S., BLAGODIR V.O.

Source: Tekhnichna Elektrodynamika 4: 36-40, 2015

Title: Methodology for calculating according to the averaged magnetic field the energy parameters of the axial arc-stator induction motor with uncompensated winding

Authors: RASHCHEPKIN A., KARLOV O., KRYSHCHUK R.

Source: Tekhnichna Elektrodynamika 4: 41–47, 2015

Subject Categories: Electric power systems and installations

Title: Hybrid filter-compensating converters for three-phase systems with nonlinear and variable loads

Authors: ZHARKIN A.F., NOVSKY V.O., MALAKHATKA D.O.

Source: Tekhnichna Elektrodynamika 4: 48–52, 2015

Title: Modeling the inertial responce of the interconnected power system of Ukraine with high

penetration of renewables

Authors: PAVLOVSKYI V.V., STELIUK A.O., LENGA O.V., ZAKHAROV A.M.

Source: Tekhnichna Elektrodynamika 4: 53–56, 2015

Title: The questions of an integrated excitation control system of synchronous machines

construction in the interconnected power system

Authors: AGAMALOV O.M., BUTKEVYCH O.F.

Source: Tekhnichna Elektrodynamika 4: 57–61, 2015

Title: Capacity control of transport lines of Kazakhstan National electric grid in real time using

synchronized phasor data measurements

Authors: TOKHTIBAKIEV K.K., SAUHIMOV A.A. **Source:** Tekhnichna Elektrodynamika 4: 62–65, 2015

Title: The dependence of the additional losses in three-phase energy supply systems from

reactive power and instantaneous active power pulsations

Authors: ZHEMEROV G., TUGAY D.

Source: Tekhnichna Elektrodynamika 4: 66-70, 2015

Title: Determination powers at unsymmetrical modes of three-phase networks with grounded

neutral

Authors: BURBELO M.J., MELNYCHUK S.M.

Source: Tekhnichna Elektrodynamika 4: 71–75, 2015

Title: Intelligent systems in the management of modes in the traction power supply systems of

the electrified railways **Authors:** BOSYI D.O.

Source: Tekhnichna Elektrodynamika 4: 76–80, 2015

Title: Congestion management and minimization of price difference between coupled

electricity markets

Authors: BLINOV I.V., PARUS Ye.V.

Source: Tekhnichna Elektrodynamika 4: 81–88, 2015

Subject Categories: Information-measuring systems in power engineering

Title: Analysis of sampling error on the accuracy of laser range finders based on the discrete

Hilbert transform

Authors: ZAITSEV E.O.

Source: Tekhnichna Elektrodynamika 4: 89–94, 2015

Title: TO THE 60 TH ANNIVERSARY of Corresponding Member of NAS Ukraine

I.P.KONDRATENKO

Source: Tekhnichna Elektrodynamika 4: 95–95, 2015

Title: Information for subscribers

Source: Tekhnichna Elektrodynamika 4: 96–96, 2015

Institute of Electrodynamics, 2015