

---

□ 4

**TECHNICAL ELECTRODYNAMICS  
2011**

---

**CONTENTS**

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

**Title:** [Application of multi-scale modeling to study of electrical systems](#)

**Authors:** KUCHERIAVA I.M.

**Source:** Tekhnichna Elektrodynamika 4: 3–11, 2011

**Title:** [Ways of representation of differential peak spectra of pulses of partial discharges in solid insulation](#)

**Authors:** BEZPROZVANNYCH G.V.

**Source:** Tekhnichna Elektrodynamika 4: 12–19, 2011

**Title:** [Compensation of magnetic moment vector in electrical equipment by an electromagnet with a composite ferromagnetic core](#)

**Authors:** KOROL O.G., LUPIKOV V.S., SEREDA O.G., RUDAS Yu.D.

**Source:** Tekhnichna Elektrodynamika 4: 20–25, 2011

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

**Title:** [Systematization of transformer switching executive structures with switches learned from the power circuit current for voltage converters](#)

**Authors:** LYPKIVSKYI K.O., MOZHAROVSKYI A.G.

**Source:** Tekhnichna Elektrodynamika 4: 26–30, 2011

**Title:** [Synchronous PWM control of four inverters feeding asymmetrical six-phase motor drive](#)

**Authors:** OLESCHUK V., SIZOV A.

**Source:** Tekhnichna Elektrodynamika 4: 31–37, 2011

**Subject Categories:** Electromechanical energy conversion

**Title:** [Limitations of vector of measured coordinates in the electromechanical systems on the basis of permanent magnet brushless motors](#)

**Authors:** AKININ K.P.

**Source:** Tekhnichna Elektrodynamika 4: 38–45, 2011

**Title:** [Spectral analysis results of vibrations moving parts of electric machines](#)

**Authors:** GYZHKO Yu.I.

**Source:** Tekhnichna Elektrodynamika 4: 46–49, 2011

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

**Title:** [Investigation of capacitors battery influence on additional watt losses of mode asymmetry](#)

**Authors:** TERESHKEVYCH L.B., CHERVINSKA T.M., BANDURA I.O.

**Source:** Tekhnichna Elektrodynamika 4: 50–54, 2011

**Subject Categories: Electrotechnological complexes and systems**

**Title:** [Magnetic field and electrodynamic forces of three-winding electromagnetic stirrer](#)

**Authors:** KARLOV A.N., KONDRATENKO I.P., RASHCHEPKIN A.P.

**Source:** Tekhnichna Elektrodynamika 4: 55–63, 2011

**Title:** [Experimental study of rotational motion of liquid metal in induction channel furnace](#)

**Authors:** GORYSLAVETS Yu.M., GLUKHENKYI O.I.

**Source:** Tekhnichna Elektrodynamika 4: 64–68, 2011

**Title:** [Exploration of electrohydrodynamic characteristics and test of optimization algorithms for discharge pulse technologies using high voltage breakdown of fluid media](#)

**Authors:** VOVCHENKO O.I., BLASHCHENKO O.D., DIVAK N.P., TERTILOV R.V.

**Source:** Tekhnichna Elektrodynamika 4: 69–75, 2011

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

**Title:** [Computer modeling in research and development of measuring information systems](#)

**Authors:** MAZMANIAN R.O.

**Source:** Tekhnichna Elektrodynamika 4: 76–84, 2011

**Institute of Electrodynamics, 2011**