

---

**No 5**  
**TECHNICAL ELECTRODYNAMICS**  
**2008**

---

**CONTENTS**

**Title:** [To the 75th anniversary of academician of NAS of Ukraine A.K.SHIDLOVSKY](#)

**Source:** Tekhnichna Elektrodynamika 5: 1–2, 2008

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

**Title:** [About some problems of nonlinear electrical engineering and mathematical methods of their research](#)

**Authors:** SHIDLOVSKA N.A., SAMOILENKO V.G.

**Source:** Tekhnichna Elektrodynamika 5: 3–11, 2008

**Title:** [A method of SLAE computation of static in-plane fields in piece-homogeneous media \(secondary sources: simple currents layer; a piece-linear approximation\)](#)

**Authors:** STADNIK I.P., FILIPPOV D.M.

**Source:** Tekhnichna Elektrodynamika 5: 12–17, 2008

**Title:** [Analysis of oscillatory circuit with nonlinear resistance](#)

**Authors:** KRAVCHENKO O.P.

**Source:** Tekhnichna Elektrodynamika 5: 17–20, 2008

**Title:** [Transient processes at a capacitor discharge at a spark load and limitation of pulse currents duration flowing in it](#)

**Authors:** SUPRUNOVSKAYA N.I.

**Source:** Tekhnichna Elektrodynamika 5: 20–26, 2008

**Title:** [A "degree" method of extremums evaluation of quadratic inertia and cumulative processes in the models of electromagnetic compatibility](#)

**Authors:** DMYTRIJEVA O.M.

**Source:** Tekhnichna Elektrodynamika 5: 27–31, 2008

**Title:** [Voice signals processing by means of wavelet transforms](#)

**Authors:** KHARCHENKO A.N., ZHUIKOV V.Ya.

**Source:** Tekhnichna Elektrodynamika 5: 31–33, 2008

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

**Title:** [Asymmetrical six-phase drives with synchronized PWM during overmodulation](#)

**Authors:** OLESCHUK V., PRUDEAK D., SIZOV A., YAROSHENKO E.

**Source:** Tekhnichna Elektrodynamika 5: 34–37, 2008

**Title:** [Matrix-topology method of averaging for analysis of steady processes in two-interval voltage transducers](#)

**Authors:** ARTEMENKO M.Yu., TROTSSENKO N.M.

**Source:** Tekhnichna Elektrodynamika 5: 37–41, 2008

**Subject Categories:** □ □ □ □ □ **Electromechanical energy conversion**

**Title:** [Mathematical models, methods of invesigation and designing of electromechanical systems on the basis of asynchronous machines with special features of power supply and loading](#)

**Authors:** LISNYK V.Ya., POPOVICH O.M, BIBIK O.V., SHURUB Yu.V.

**Source:** Tekhnichna Elektrodynamika 5: 42–44, 2008

**Title:** [Compensation of disperse field influence in a three degree electrical machine](#)

**Authors:** ANTONOV A.E., AKININ K.P.

**Source:** Tekhnichna Elektrodynamika 5: 45–47, 2008

**Title:** [Asynchronous motors characteristics at a magnetic core material change and increase of voltage frequency of a supply mains](#)

**Authors:** ONOPRICH V.P.

**Source:** Tekhnichna Elektrodynamika 5: 48–50, 2008

**Title:** [Special features of a dynamitic brake with a ferromagnetic disk](#)

**Authors:** TSIGANKOVA G.A.

**Source:** Tekhnichna Elektrodynamika 5: 51–55, 2008

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

**Title:** [About protection of transformers of 330 kV voltage](#)

**Authors:** SOPEL M.F., PILIPENKO Yu.V., APUKHTIN V.V., KASHIN A A , ANTONENKO A.V, KOCHEGAROV Yu.I., YAKIMENKO Yu.V., KAZAKOVA N.Yu.

**Source:** Tekhnichna Elektrodynamika 5: 56–58, 2008

**Title:** [Analysis of power losses distribution methods in electrical power systems](#)

**Authors:** DOBROVOLSKA L.N., YAROSCHUK I.V.

**Source:** Tekhnichna Elektrodynamika 5: 58–61, 2008

**Electrotechnological complexes and systems**

**Title:** [Simulation of electromagnetic influence on a liquid metal meniscus in an ingot-forming equipment of a continuous billets casting machine](#)

**Authors:** KONDRATENKO I.P., PETUKHOV I.S., RASCHEPKIN A.P.

**Source:** Tekhnichna Elektrodynamika 5: 62–67, 2008

**Title:** [Inspectors of electric arc welding systems in the environment of protective gases](#)

**Authors:** KHALIKOV V.A., MOZHAROVSKY A.G., SHATAN O.F., PAKHANJAN V.M.

**Source:** Tekhnichna Elektrodynamika 5: 68–75, 2008

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

**Title:** [Three-dimensional mathematical model for magnetic induction computation in a magnetic sensitive system of a slip sensor](#)

**Authors:** ZAPOROZHETS Yu.M., KONDRATENKO Yu.P., SHYSHKIN O.S.

**Source:** Tekhnichna Elektrodynamika 5: 76–79, 2008

## [Abstracts](#)