
1

TECHNICAL ELECTRODYNAMICS 2016

Issue DOI: <https://doi.org/10.15407/techned2016.01>

CONTENTS

Subject Categories: Theoretical electrical engineering and electrophysics

Title: [Dependences of power characteristics of circuit at charge of supercapacitors on their initial and final voltages](#)

Authors: BELETSKY O.A., SUPRUNOVSKA N.I., SHCHERBA A.A.

Source: Tekhnichna Elektrodynamika 1: 3–10, 2016 **DOI:** <https://doi.org/10.15407/techned2016.01.003>

Title: [Electric field and current density distribution near water inclusions of polymer insulation of high-voltage cables in view of its nonlinear properties](#)

Authors: PODOLTSEV O.D., SHCHERBA M.A.

Source: Tekhnichna Elektrodynamika 1: 11–19, 2016 **DOI:** <https://doi.org/10.15407/techned2016.01.011>

Subject Categories: Conversion of electric energy parameters

Title: [Energy efficiency of the vibratory device electromagnetic drive system](#)

Authors: CHERNO O.O., MONCHENKO M.Yu.

Source: Tekhnichna Elektrodynamika 1: 20–25, 2016 **DOI:** [https://doi.org/ 10.15407/techned2016.01.020](https://doi.org/10.15407/techned2016.01.020)

Subject Categories: Electromechanical energy conversion

Title: [General theoretical solution of sensorless speed-flux vector control of induction motor](#)

Authors: PERESADA S., KOVBASA S.

Source: Tekhnichna Elektrodynamika 1: 26–33, 2016 **DOI:** [https://doi.org/ 10.15407/techned2016.01.026](https://doi.org/10.15407/techned2016.01.026)

Title: [Three dimensional mathematical model of electromagnetic processes in the end zone of the turbogenerator rotor](#)

Authors: VASKOVSKIY Yu.M., TSIVINSKIY S.S.

Source: Tekhnichna Elektrodynamika 1: 34–39, 2016 **DOI:** [https://doi.org/ 10.15407/techned2016.01.034](https://doi.org/10.15407/techned2016.01.034)

Subject Categories: Electric power systems and installations

Title: [Monitoring system for state of 10\(6\) kV signalization and blocking lines on railway](#)

Authors: STOГNII B.S., GREBCHENKO N.V., MAXIMCHUK V.F.

Source: Tekhnichna Elektrodynamika 1: 40–46, 2016 **DOI:** [https://doi.org/ 10.15407/techned2016.01.040](https://doi.org/10.15407/techned2016.01.040)

Title: [Problems using, modeling and minimizing errors of high voltage current transformers](#)

Authors: SOPEL M.F., PANKIV V.I., TANKEVYCH E.M., GRECHKO V.V.

Source: Tekhnichna Elektrodynamika 1: 47–54, 2016 **DOI:** [https://doi.org/ 10.15407/techned2016.01.047](https://doi.org/10.15407/techned2016.01.047)

Title: [Application of contextual data for control of distributed power grid](#)

Authors: VERBYTSKYI I.V., KYSELOVA A.G.

Source: Tekhnichna Elektrodynamika 1: 55–59, 2016 **DOI:** [https://doi.org/ 10.15407/techned2016.01.055](https://doi.org/10.15407/techned2016.01.055)

Title: [Determination of reactive power compensation mode in four-wire three-phase electric power supply system using search engine optimization](#)

Authors: YAGUP V.G., YAGUP K.V.

Source: Tekhnichna Elektrodynamika 1: 60–66, 2016 **DOI:** [https://doi.org/ 10.15407/techned2016.01.060](https://doi.org/10.15407/techned2016.01.060)

Title: [Multidimensional optimization with a given distribution of ranked variables for reductiong electrical losses in the electrical network](#)

Authors: TRACH I., SEVASTJUK I.

Source: Tekhnichna Elektrodynamika 1: 67–72, 2016 **DOI:** [https://doi.org/ 10.15407/techned2016.01.067](https://doi.org/10.15407/techned2016.01.067)

Title: [Practical application peculiarities of autonomous diagnostic complexes for thermal control of overhead power lines](#)

Authors: BABAK S., MYSLOVYCH M.

Source: Tekhnichna Elektrodynamika 1: 73–80, 2016 **DOI:** [https://doi.org/ 10.15407/techned2016.01.073](https://doi.org/10.15407/techned2016.01.073)

Title: [Hierarchical control strategy for unbalanced voltage in an islanded microgrid](#)

Authors: TIANYI MA, GUANGYAO CHENG, XINJUN LIU.

Source: Tekhnichna Elektrodynamika 1: 81–86, 2016 **DOI:** [https://doi.org/ 10.15407/techned2016.01.081](https://doi.org/10.15407/techned2016.01.081)

Subject Categories: Electrotechnological complexes and systems

Title: [The analysis of electromagnetic processes in output circuit of the generator of discharge pulses with non-linear model of plasma-erosive load at change their parameters in wide ranges](#)

Authors: SHYDLOVSKA N.A., ZAKHARCHENKO S.M., CHERKASSKY O.P.

Source: Tekhnichna Elektrodynamika 1: 87–95, 2016 **DOI:** [https://doi.org/ 10.15407/techned](https://doi.org/10.15407/techned)

2016.01.087

Title: [TO THE 80TH ANNIVERSARY of Corresponding Member of NAS Ukraine I.V. VOLKOV](#)

Source: Tekhnichna Elektrodynamika 1: 96–96, 2016

Institute of Electrodynamics, 2016