
1

TECHNICAL ELECTRODYNAMICS 2017

Issue DOI: <https://doi.org/10.15407/techned2017.01>

CONTENTS

Subject Categories: Theoretical electrical engineering and electrophysics

Title: [Use of power method for identification of nonlinearity parameters](#)

Authors: ZAGIRNYAK M., MOSIUNDZ D., RODKIN D.

Source: Tekhnichna Elektrodynamika 1: 3–9, 2017 **DOI:** <https://doi.org/10.15407/techned2017.01.003>

Title: [Heisenberg's uncertainty principle in evaluating the level of power generated by renewable sources](#)

Authors: OSYPENKO K.S., ZHUIKOV V.Ya.

Source: Tekhnichna Elektrodynamika 1: 10–16, 2017 **DOI:** <https://doi.org/10.15407/techned2017.01.010>

Title: [Numerical study of electric field distribution in high-voltage cable termination with stress control cone](#)

Authors: KUCHERIAVA I.M.

Source: Tekhnichna Elektrodynamika 1: 17–22, 2017 **DOI:** <https://doi.org/10.15407/techned2017.01.017>

Title: [Double-circuit passive shielding of the magnetic field of high-voltage cable lines in junction zones](#)

Authors: ROZOV V.Yu., DOBRODEYEV P.N., KVYTSYNSKYI A.A.

Source: Tekhnichna Elektrodynamika 1: 23–28, 2017 **DOI:** <https://doi.org/10.15407/techned2017.01.023>

Title: [Physical modeling of electrical physical processes at long air gaps breakdown](#)

Authors: REZINKINA M.M., REZINKIN O.L., DANYLIUK A.R., REVUCKIY V.I., GUCHENKO A.N.

Source: Tekhnichna Elektrodynamika 1: 29–34, 2017 **DOI:** <https://doi.org/10.15407/techned2017.01.029>

Subject Categories: Conversion of electric energy parameters

Title: [Improvement of the input current waveforms of a matrix converter in the case of unbalanced power supply voltages and unbalanced load](#)

Authors: MYKHALSKYI V.M., SOBOLEV V.M., CHOPYK V.V., SHAPOVAL I.A.

Source: Tekhnichna Elektrodynamika 1: 35–43, 2017 **DOI:** <https://doi.org/10.15407/techned2017.01.035>

Subject Categories: Electromechanical energy conversion

Title: [Complex model with frequency dependent parameters for electrodynamic shaker characteristics](#)

Authors: BONDAR R.P., PODOLTSEV A.D.

Source: Tekhnichna Elektrodynamika 1: 44–51, 2017 **DOI:** <https://doi.org/10.15407/techned2017.01.044>

Title: [The electromagnetic vibration disturbing forces in turbogenerator with a glance of current asymmetry of stator winding](#)

Authors: VASKOVSKYI Yu.M., MELNYK A.M.

Source: Tekhnichna Elektrodynamika 1: 52–57 2017 **DOI:** <https://doi.org/10.15407/techned2017.01.052>

Title: [Definition of turn-fault of stator winding induction motor on the basis of the compensation magnetic field](#)

Authors: TYTKO O.I., KHUDIAKOV A.V.

Source: Tekhnichna Elektrodynamika 1: 58–61, 2017 **DOI:** <https://doi.org/10.15407/techned.2017.01.058>

Subject Categories: Electric power systems and installations

Title: [Stochastic approach to determination of the distributed generation optimal placement](#)

Authors: KYRYLENKO O.V., LUKIANENKO L.M., GONCHARENKO I.S.

Source: Tekhnichna Elektrodynamika 1: 62–70, 2017 **DOI:** <https://doi.org/10.15407/techned.2017.01.062>

Title: [Evaluation of high-voltage circuit breaker interruption resource](#)

Authors: STOGNII B.S., SOPEL M.F., TRETIAKOVA L.D., TANKEVYCH E.M., PANOV A.V., PANKIV V.I.

Source: Tekhnichna Elektrodynamika 1: 71–80, 2017 **DOI:** <https://doi.org/10.15407/techned.2017.01.071>

Title: [Step-by-step calculation of reactive power compensation in electrical networks based on their decomposition](#)

Authors: DEMOV O.D., PIVNIUK Yu.Yu.

Source: Tekhnichna Elektrodynamika 1: 81–86, 2017 **DOI:** <https://doi.org/10.15407/techned.2017.01.081>

Title: [To the 80TH ANNIVERSARY of RASHCHEPKIN A.P.](#)

Source: Tekhnichna Elektrodynamika 1: 87–87, 2017

Title: [To the 80TH ANNIVERSARY of AVRAMENKO V.M.](#)

Source: Tekhnichna Elektrodynamika 1: 88–88, 2017

Institute of Electrodynamics, 2017