
2

TECHNICAL ELECTRODYNAMICS 2016

Issue DOI: <https://doi.org/10.15407/techned2016.02>

CONTENTS

Subject Categories: Theoretical electrical engineering and electrophysics

Title: [Global electric \$RLC\$ -circuit of a system "the Earth's crust – atmosphere – ionosphere" and its resonance properties](#)

Authors: PODOLTSEV A.

Source: Tekhnichna Elektrodynamika 2: 3–10, 2016 DOI: <https://doi.org/10.15407/techned2016.02.003>

Title: [Statistical model for determination of probability of lightning strokes to ground objects](#)

Authors: SOKOL E.I., REZINKINA M.M., REZINKIN O.L., GRYB O.G., SVETLICHNAYA E.E.

Source: Tekhnichna Elektrodynamika 2: 11–18, 2016 DOI: <https://doi.org/10.15407/techned2016.02.011>

Title: [Computer study of the ways for electric field grading in sealing ends of polyethylene-insulated cables](#)

Authors: KUCHERIAVA I.M.

Source: Tekhnichna Elektrodynamika 2: 19–24, 2016 DOI: <https://doi.org/10.15407/techned2016.02.019>

Title: [The concentration of electrons in the one-channel atmospheric pressure glow discharge plasma to the surface of distilled water](#)

Authors: SHUAIBOV A.K., MESAROSH L.V., CHUCHMAN M.P.

Source: Tekhnichna Elektrodynamika 2: 25–28, 2016 DOI: <https://doi.org/10.15407/techned2016.02.025>

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

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

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

Source: Tekhnichna Elektrodynamika 2: 29–34, 2016 DOI: <https://doi.org/10.15407/techned2016.02.029>

Subject Categories: □ □ □ □ □ Electromechanical energy conversion

Title: [The electromagnetic vibration disturbing forces of turbogenerator in maneuverable operating conditions](#)

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

Source: Tekhnichna Elektrodynamika 2: 35–41, 2016 DOI: <https://doi.org/10.15407/techned2016.02.035>

Title: [Analysis of demagnetization fault back-EMF of permanent magnet synchronous motor using mathematical model based on magnetic field superposition principle](#)

Authors: ZHIYAN ZHANG, ZEHUI XIE, HONGZHONG MA, QIN ZHONG.

Source: Tekhnichna Elektrodynamika 2: 42–48, 2016 DOI: <https://doi.org/10.15407/techned2016.02.042>

Title: [The frequency characteristics of the coaxial–linear motor with magnetic spring](#)

Authors: GOLENKOV G.M., PARKHOMENKO D.I.

Source: Tekhnichna Elektrodynamika 2: 49–54, 2016 DOI: <https://doi.org/10.15407/techned2016.02.049>

Title: [Control of axial flux permanent generator](#)

Authors: CHUMACK V.V., MONAKHOV E.A.

Source: Tekhnichna Elektrodynamika 2: 55–57, 2016 DOI: <https://doi.org/10.15407/techned2016.02.055>

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

Title: [Stochastic modelling of a hybrid renewable energy system](#)

Authors: VARETSKY Y., HANZELKA Z.

Source: Tekhnichna Elektrodynamika 2: 58–62, 2016 DOI: <https://doi.org/10.15407/techned2016.02.058>

Subject Categories: □ □ □ □ □ Electrotechnological complexes

Title: [SOS-generator for the electric discharge technology used pulse barrier discharge](#)

Authors: BOZHKO I.V., ZOZULJOV V.I., KOBYLCHAK V.V.

Source: Tekhnichna Elektrodynamika 2: 63–68, 2016 DOI: <https://doi.org/10.15407/techned2016.02.063>

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

Title: [Study on Internet of Things electric system based on distributed smart terminals in demand side management](#)

Authors: ZHENG G.L., ZHANG L., CHI J.W.

Source: Tekhnichna Elektrodynamika 2: 69–77, 2016 DOI: <https://doi.org/10.15407/techned2016.02.069>

Title: [Electromagnetic acoustic transducer for ultrasonic thickness gauging of ferromagnetic metal items without removing dielectric coating](#)

Authors: MIGUSHCHENKO R.P., SUCHKOV G.M., RADEV Kh.K., PETRISHCHEV O.M., DESYATNICHENKO O.V.

Source: Tekhnichna Elektrodynamika 2: 78–82, 2016 DOI: <https://doi.org/10.15407/techned2016.02.082>

[016.02.078](#)

Title: [Application of invers problem solutions of the linear autoregressive processes for power equipment vibromonitoring](#)

Authors: ZVARICH V.

Source: Tekhnichna Elektrodynamika 2: 83–89, 2016 DOI: <https://doi.org/10.15407/techned2016.021.083>

Title: [TO THE 80TH ANNIVERSARY of Member of NAS Ukraine](#) [STOHNII B.S](#)

Source: Tekhnichna Elektrodynamika 2: 90–91, 2016

Institute of Electrodynamics, 2016