
□ 3

TECHNICAL ELECTRODYNAMICS 2017

Issue DOI: <https://doi.org/10.15407/techned2017.03>

CONTENTS

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

Title: [Parametric model of resistance of plasma-erosive load, adequate in the wide range of change of applied voltage](#)

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

Source: Tekhnichna Elektrodynamika 3: 3–12, 2017 DOI: <https://doi.org/10.15407/techned2017.03.003>

Title: [Three-dimensional modeling of electromagnetic and thermal processes of induction melting of copper template with accounting of installation elements design](#)

Authors: ZOLOTAREV V.M., SHCHERBA M.A., ZOLOTAREV V.V., BELYANIN R.V.

Source: Tekhnichna Elektrodynamika 3: 13–21, 2017 DOI: <https://doi.org/10.15407/techned2017.03.013>

Title: [Physical nature of stationary electric field and terminological definition of related quantities](#)

Authors: SOTNIKOV V.V.

Source: Tekhnichna Elektrodynamika 3: 22–28, 2017 DOI: <https://doi.org/10.15407/techned2017.03.022>

Subject Categories: 电能转换 Conversion of electric energy parameters

Title: Calculation of the parameters of universal harmonic filter for thyristor current regulator – rotor type electromagnet separator system

Authors: VOLKOV I.V., STIAZHKIN V.P., ZAICHENKO O.A.

Source: Tekhnichna Elektrodynamika 3: 29–34, 2017 **DOI:** <https://doi.org/10.15407/techned.2017.03.029>

Title: Effect of the features of the level control of the stabilized voltage on the power of the transforming element of the AC voltage converter

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

Source: Tekhnichna Elektrodynamika 3: 35–41, 2017 **DOI:** <https://doi.org/10.15407/techned.2017.03.035>

Title: Mode of averaging of pulse DC converter model

Authors: RUDENKO Yu.V.

Source: Tekhnichna Elektrodynamika 3: 42–48, 2017 **DOI:** <https://doi.org/10.15407/techned.2017.03.042>

Subject Categories: Electromechanical energy conversion

Title: The numerically-field analysis of electromagnetic processes in the turbo-generator rotor under unbalanced loading

Authors: MILYKH V.I.

Source: Tekhnichna Elektrodynamika 3: 49–57, 2017 **DOI:** <https://doi.org/10.15407/techned.2017.03.049>

Title: [Diagnosis of induction motors based on analysis of starting electromagnetic torque](#)

Authors: VASKOVSKYI Yu.M., TYTKO O.I., MAKEYKIN I.S., KRAVCHUK V.A.

Source: Tekhnichna Elektrodynamika 3: 58–64, 2017 **DOI:** <https://doi.org/10.15407/techned.2017.03.058>

Subject Categories: 00000 Electric power systems and installations

Title: [Reduction of active power losses in low voltage networks with the rectifier load](#)

Authors: ZHARKIN A.F., NOVSKYI V.O., KAPLYCHNYI N.N., KOZLOV A.V., MALAHATKA D.A.

Source: Tekhnichna Elektrodynamika 3: 65–70, 2017 **DOI:** https://doi.org/10.15407/techned_2017.03.065

Title: [Features of thyristor control by reactors in “triangle” circuit for simulation of nonlinear load](#)

Authors: SHYTOV O.L., BUROV O.M.

Source: Tekhnichna Elektrodynamika 3: 71–78, 2017 **DOI:** https://doi.org/10.15407/techned_2017.03.071

Subject Categories: 00000 Electrotechnological complexes and system

Title: [Modeling of electromagnetic-acoustic conversion when excited torsional waves](#)

Authors: PLESNETSOV S.Yu., PETRISHCHEV O.N., MIGUSHCHENKO R.P., SUCHKOV G.M.

Source: Tekhnichna Elektrodynamika 3: 79–88, 2017 **DOI:** https://doi.org/10.15407/techned_2017.03.079