No 4
TECHNICAL ELECTRODYNAMICS
2020

Issue DOI: https://doi.org/10.15407/techned2020.04

CONTENTS

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

Title: Calculation of profiles of solenoids for generation of high pulse magnetic fields with given distribution on axis
Author: MIKHAILOV V.M.
Source: Tekhnichna Elektrodynamika 4: 5–10, 2020 **DOI:** https://doi.org/10.15407/techned2020.04.005

Title: Electromagnetic field of the inductor for local electric pulse effects on metal products
Authors: VASETSKY Yu.M., KONDRATENKO I.P.
Source: Tekhnichna Elektrodynamika 4: 11–14, 2020 **DOI:** https://doi.org/10.15407/techned2020.04.011

Title: Decrease of transients duration and improvement of dynamic characteristics of electrical discharge installations by changing the structure of their discharge circuit
Authors: SUPRUNOVSKA N.I., SHCHERBA M.A., PERETYATKO Yu.V., ROZISKULOV S.S.
Source: Tekhnichna Elektrodynamika 4: 15–18, 2020 **DOI:** https://doi.org/10.15407/techned2020.04.015

Title: Electromagnetic processes in a flat circular system with an inductor between thin bifilar

coils
Authors: BATYGIN Yu.V., SHINDERUK S.O., CHAPLYGIN E.O., YERYOMINA O.F.
Source: Tekhnichna Elektrodynamika 4: 19–24, 2020 **DOI:** https://doi.org/10.15407/techned2020.04.019

Title: Active shielding of magnetic field of overhead power line with phase conductors of triangle arrangement
Authors: KUZNETSOV B.I., NIKITINA T.B., BOVDUI I.V.
Source: Tekhnichna Elektrodynamika 4: 25–28, 2020 **DOI:** https://doi.org/10.15407/techned2020.04.025

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

Title: Formation of the compensating current of a three-phase shunt active power filter using multiple-rate sliding modes
Authors: MYSAK T.V., MYKHALSKYI V.M.
Source: Tekhnichna Elektrodynamika 4: 29–34, 2020 **DOI:** https://doi.org/10.15407/techned2020.04.029

Subject Categories: **Electromechanical energy conversion**

Title: Formation of dynamic modes of full-controlled hybrid energy storage system for electric vehicles
Authors: PERESADA S., NIKONENKO Ye., ZHELINSKYI M., RESHETNYK V.
Source: Tekhnichna Elektrodynamika 4: 35–40, 2020 **DOI:** https://doi.org/10.15407/techned2020.04.035

Title: Optimization of magnetization and demagnetization processes of the vector controlled asynchronous motor
Authors: TOLOCHKO O.I., KALUHIN D.V.
Source: Tekhnichna Elektrodynamika 4: 41–45, 2020 **DOI:** https://doi.org/10.15407/techned2020.04.041

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

Title: The problem of electric power storages' placement in the ips of ukraine taking into account its influence on the power flows transmitted by controlled cutsets
Authors: BUTKEVYCH O.F., YUNIEIEVA N.T., HURIEIEVA T.M., STETSYUK P.I.
Source: Tekhnichna Elektrodynamika 4: 46–50, 2020 **DOI:□ https://doi.org/10.15407/techned2020.04.046**

Title: Using the concept of power factor for estimating the devices efficiency for correction of networks transitional modes
Authors: CHYZHENKO O.I., POPOVYCH O.M., TRACH I.V., RYBINA O.B.
Source: Tekhnichna Elektrodynamika 4: 51–54, 2020 **DOI:□ https://doi.org/10.15407/techned2020.04.051**

Title: Management of generation and redistribution electric power in grid-tied photovoltaic system of local object
Authors: SHAVELKIN A., SHVEDCHYKOVA I.
Source: Tekhnichna Elektrodynamika 4: 55–59, 2020 **DOI:□ https://doi.org/10.15407/techned2020.04.055**

Title: Management of modes of distributive electric networks of cities under conditions of weak correlation of graphics of active and reactive power
Authors: GOVOROV P.P., NOVSKIY V.O., GOVOROV V.P., KINDINOVA A.K.
Source: Tekhnichna Elektrodynamika 4: 60–66, 2020 **DOI:□ https://doi.org/10.15407/techned2020.04.060**

Title: Reducing additional losses in power reactor windings
Authors: HOEVENAARS A.H., LAVRENIUK A.V., PENTEGOV I.V., RYMAR S.V., SYDORETS V.M.
Source: Tekhnichna Elektrodynamika 4: 67–71, 2020 **DOI:□ https://doi.org/10.15407/techned2020.04.067**

Title: Components of model for analysis of influence of renewables on the electricity market price in Ukraine

Authors: IVANOV H.A., BLINOV I.V., PARUS E.V., MIROSHNYK V.O.
Source: Tekhnichna Elektrodynamika 4: 72–75, 2020 **DOI:** **https://doi.org/10.15407/techned2020.04.072**

Title: The influence of electrical energy quality to economic characteristics of isolated MicroGrid
Authors: YAMNENKO Y.S., TERESHCHENKO T.O., FEDIN I.S., KLEPACH L.E.
Source: Tekhnichna Elektrodynamika 4: 76–79, 2020 **DOI:** **https://doi.org/10.15407/techned2020.04.076**

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

Title: Methodology for calculating the energy consumption of information communication systems
Authors: SONG WENGUANG, ANDRUSHCHAK V.S., KAIDAN M.V., BESHLEY M.I., KOCHAN O.V., SU JUN

Source: Tekhnichna Elektrodynamika 4: 80–88, 2020 **DOI:** **https://doi.org/10.15407/techned2020.04.080**

Subject Categories: **Anniversaries**

Title: TO THE 70TH ANNIVERSARY of corresponding member of NAS Ukraine A.A.Shcherba
Source: Tekhnichna Elektrodynamika 4: 89–90, 2020

Title: TO THE 85TH ANNIVERSARY V.O.Barskyi
Source: Tekhnichna Elektrodynamika 4: 91–92, 2020

Institute of Electrodynamics, 2020

This work is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License .