

2005 , □ 6

CONTENTS

Theoretical electrical engineering and electrophysics

SHCHERBA A.A., PODOLTSEV A.D., ZAKHARCHENKO S.N., KUCHERYAVAYA I.N.,

SHEVCHENKO N.I., SUPRUNOVSKA N.I. Progress in spark-eroded particle production:

Development of technological system for high-yield electrical-spark dispersion of metal

granules in
liquid

3

BARANOV M.I., IGNATENKO N.N. Approximate time computation of electric explosion

of conductors under the influence of high pulse currents

Conversion of electric energy parameters

DENISOV Yu.A., ZAROVSKY R.V. Analysis of a stabilization system error with pulse-width

modulation at deep control _____

— 19

FEDIY V.S., SOBOLEV V.N. Analysis of special modes in a series RLC-circuit with a valve switch

in a capacitive (inductive) circuit _____

_____ 23

DOCHVIRI D.N., DOCHVIRI I.D., BERADZE N.D. Dynamics of control systems of thyristor

electric drives with an electric motor excitation

control _____ 30

VERESCHAGO E.N., KWASNITSKY V.F., YAVISHEV D.I. Power source of a welding arc on the

basis of ZVS-circuit _____
_____ 36

TARANJUK A.L. Universal single-board controller with galvanically isolated networks of an analogue

input/output _____
_____ 41

Electromechanical energy conversion

PRYIMAKB.I. Algorithms of a flow control for optimization of power losses in an asynchronous motor____
48

BELIYP.N. Equations for designing of built in magnetolectric motors of a disk type_____ 53

Electric power systems and installations

ZHARKIN A.F., PALACHEV S.A. Legislative control of high harmonics current emission in power supply

systems of the countries of the European Union _____
_____ 57

SOPEL M.F., SLYNKO V.M, TARASEVICH P.I., FESCHENKO L.P., TROFIMENKO S.A.
Choice and

implementation of a method of metrological characteristics determination of electrical

parameters
recorders _____ 61

KOKHAN P.G., KRAVCHENKO A.N., TITKO A.I. Investigations state of the problem

of electrodynamic resistance of power
transformers _____ 66

Scientific information

SCIENTIFIC-ENGINEERING SOCIETY of power engineers and electricians of Ukraine is 125 y
ears _____
72

SHIDLOVSKY A.K., KUSKOVA N.I. XII International scientific school-seminar "Physics of pulse

discharges in capacitor media" _____
_____ 74

TO 60th anniversary of ROZOV V.Yu. _____
_____ 75

In memory of M.K.ZAKHAROV _____
_____ 77

INDEX of papers in
2005 _____ 78