

2002, □ 6

CONTENTS

Theoretical electrical engineering and electrophysics

PETRUSHENKO-KUBALA I.E., PETRUSHENKO E.I. Integral equations for computation

of three-dimensional distribution of high-frequency currents in electric furnaces for optical glass

cooking considering a surface effect _____
_____ 3

BARANOV M.I., BONDINA N.N., DATSENKO V.P. Mathematical simulation of non-stationary

non-linear electric heat problem for cylindrical current-carrying wires of electrical power plants

of short circuit _____
_____ 8

of electric energy parameters

PERESADA S.M., SHAPOVAL I.A. Control of moment and reactive power of asynchronous motor

of a double supply on the basis of indirect vector stabilization of a stator magnetic-flux linkage

13

YAS'KIV V.I. Mathematical model of a pulse voltage regulator with magnetic switches

20

KIRIK V.V. Non-traditional constant voltage regulator with application of indistinct control logic

22

Electromechanical energy conversion

CHABAN V., BILY L., CHABAN O. Mathematical simulation of transient and steady-state processes

of asynchronous motors with deep-bar slots

26

VASULIV K.M. Mathematical model of autonomous electric energy system on the basis of a

generator with two-three-phase contactless modulator

31

CHUMAK V.V. Minimum losses optimum law of frequency control of asynchronous electric drive

of electric locomotive in draft conditions

37

DEGTEV V.G. Harmonic composition of multiphase windings with harmonic structures

43

Electric power systems and installations

VAS'KO P.F., PEKUR P.P. Probabilistic characteristics of a wind-electric plants participation

in maximum load meet of a power system

46

VAS'KO V.P. A mathematical model of wind-driven electric plant rotor as a control object on the

bas is of cubic sp-line _____
 _____ 50

KASJANOV G.P., GRIGORIV V.P., HOANG KONG BAO DAM Adaptive short circuits
 protection _____
 56

SEGEDA M.S., RAVLYK O.M., GRONQSTAL'SKA O.I. Coordination and restriction of currents
 of single-phase shortings in power networks of 6—35 kV _____
 _____ 59

ZHARKIN A.F. Methods of determination of a substitution circuit parameters of a low-voltage
 circuit with non-linear loads _____
 _____ 62

Information measuring systems in power engineering

ZVARICH V.N. Systems of vibration diagnostics and electrical power egnipment diagnostics
 software _____ 66

SHELEPETEN' T.M., KLADNITSKY S.V. Investigations of characteristics of the initial

measuring

current converters by final elements
method_____71

INDEX of papers in 2002_____75

Abstracts_____79
