

1997, □ 3

Contents

Electrodynamics of electrical power devices

DENISJUK V.P.. MARCHENKO B.G. About distribution functions and density of distributions

approach by trigonometric polynomials and trigonometric splines
_____ 3

KRIKUNOV Yu. V. Capacitive screens for voltage distribution equalization along insulation

constructions of high -. Voltage measuring
devices _____ 6

DEGTYAREV V.V. Dipole component measurement of external electromagnetic field of

electrotechnical devices and determination of its diagram
parameters_____ 10

NOVIKOVA O.N., LIZANETS V.V. Influence of distributed inductance nonlinearity on a

transient process in
aline_____ 13

Conversion of electric energy parameters

SCHERBA A.A., MOSTOVYAK I.V., MARTYNENKO M.A. Ideal two-port in electric pulse

system circuit for deterministis load_____ 15

SKIDANOV V.M. Control by the semiconductor converters of transport electric drives in a

function of predetermined voltage and DC traction motor
speed_____ 18

ROMANETS RA, KHMELEV A.G. Control algorithm of inverter with ladder type ripple filter_____
_____ 25

KLINGER K. Models elaboration and electric drive systems simulation _____
_____ 30

Electromechanical energy conversion

PROKOFIEV YuA., BOGOSLAVSKY Yu.M., TSVILY S.L., POSTNIKOV V.I.,

OSTAPCHUK L.B., SARATOV VA, FINK A.F., VAS'KOVSKY Yu.N. Investigations eview

in the field of induction and asynchronized turbo-generators creation of big power (to the 90-th

anniversary of professor
I.M.Postnikov)_____ 35

VOLKOV I.V., LESNIK VA., GUBAREVICH V.N., CHIZHENKO A.I. Investigation of parametrical

self-excitation process of asynchronous generator
(AG)_____ 41

VAS'KO P.F. Mathematical model of electromechanical system of wind-driven electric plant for

mechanical transient processes
computation_____44

VERBOVOY P.F. Characteristics improvement and efficiency increase of asynchronous motors

application_____51

SARATOV VA, TCHEREMISOV I.Ya. Magnetic circuit parameters influence on the main indices

of turbo-generator in synchronous and asynchronous operating
conditions_____56

VERBOVOYA.P. Procedure of inductive impedance determination of winding dissipation of
induction

resistance_____60

SHURUB VA., SHURUB Yu.V. Analysis of connection circuit and calculation of capacitive
asynchronous

motor with sectionalized
winding_____64

VOLOCHOV S.A., DOBRODEEV P.N. Influence of dynamic rotor eccentricity on external

magnetic

fields of electric
motors_____

67

Electrical powei systems and installations

YANDULSKY A.S. Simulation of message delivery process in integrated data network
ICS_____72

Electrical and magnetic measurements

DUNAETS B.V. Errors investigation of functional transducers with one-level
correction_____77

Abstracts

