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
KRIKUNOV Yu. V. Capacitive screens for voltage distribution equalization along insulation
constructions of high Voltage measuring devices6
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 aline13
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 speed18
ROMANETS RA, KHMELEV A.G. Control algorithm of inverter with ladder type ripple filter 25

KLINGER K. Models elaboration and electric drive systems simulation
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 improvem	ent and efficiency increase of asynchronous motors
application51	
SARATOV VA, TCHEREMISOV I.Ya. Magı	netic circuit parameters influence on the main indices
of turbo-generator in synchronous and asyr conditions56	nchronous operating
VERBOVOYA.P. Procedure of inductive im induction	pedance determination of winding dissipation of
resistance60	
SHURUB VA., SHURUB Yu.V. Analysis of asynchronous	connection circuit and calculation of capacitive
motor with sectionalized winding	64
VOLOCHOVISIA DORRODEEV P.N. Influ	ence 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 ICS72	
Electrical and magnetic measurements	
DUNAETS B.V. Errors investigation of functional transducers with one-level correction77	
Abstracts	