	_	_	_	_	_
1	a	а	n	П	1

1992, 🛘 4
CONTENTS
Electrodynamics of electrical power devices
Zinchenko T.R., Raschepkin A.P. Heating of ferromagnetic media by travelling magnetic field 3
Zalozniy V.I., Kolesnichenko A.F., Erkenov N.H., Yuschenko B.A. Numerical simulation of
velocity field in a liquid phase of metal ingot influencing by electromagnetic forces

Electric energy parameters conversion	
Fediy V.S., Cherednitchenko S.L Influence of control pulses phase on initial conditions at	
start of single-phase rectifier-capacitor source of reactive power18	
Sakkos T., Sakkos H. Electromagnetic compatibility of twelve-pulse converter of alternating	
voltage in frequency tripling conditions25	
Bartosh S. Method of losses decrease in switching points of semiconductor converters 2	3
Zhurakhovsky A.V., Shelepeten T. M., Shkrum V.A. Complex use of equipment of static	
thyristor compensator	

Sidorov V.S., Ambroz V.M., Capanovich V.G., Kondor I.V. Investigation of transient

processes in static controllable rectifier source of reactive power 39	
Electromechanical energy conversion	
Finkelshtein V.B., Egorov A.B. Designing of single-phase capacitor-free elec-	tric drive with
posistor application44	
Afonin A.A., Beliy P.N., Fursenko S.L. Magnetic field in systems with high-comagnets 48	erdtive constant
Titko A.I., Shalomygin M.V. Investigation method of holes reemission of shie shell 53	elding
Bychkovska-Lipin'ska L. Amplitude-frequency characteristics of converter transformer 57	
Bolyukh V.F. Dynamic excitation of cryoresistive windings of electromechani	cal impact devices
from a capacitive power storage	61

Electric power systems and installations
Kurenniy E.G., Kolomytsev A.D., Nairn Gol'. Statistical dynamics of compensation systems of
fault-to-earth current69
69
Moskalenko G.A., Zoschenko A.V. Influence of currents asymmetry on measurement accuracy
of total powers value in a single phase
Perkhach V.S., Segeda M.S., Skripnik O.I. Ground in power networks with static thyristor
compensators 81
Nedzelsky I.S. Static stability analysis of electric power systems at input of a single frequency
of its power network into a mathematical model of power system

Blyumovich G.I. Determination of voltage non-sinusoidality coefficient of computers' power

supply systems	91
Bortsov R.I., Solomchak O.V., Fedoriv M.I. Mathematical model of steady states analysis complex closed power networks with several basis nodes97	of
Discussions	
Pivnyak G.G., Shkrabets F.P. Double grounds in three-phase networks of 6 35 kV with	
insulated neutral 102	
Scientific and technical information	
Novskiy V.A. Automatic balancing controller of three-phase voltage for four-conducting networks	
with alternating unbalanced and non-linear loads	