2000 🛮 3		
2000, No 3		
2000, 110 3		
CONTENTS		

## Electrodynamics of electrical power devices

KONDRATENKO I.P., RASCHEPKIN A.P. Induction heating of a plane rolled stock in inductors

with balanced electrical parameters\_\_\_\_\_\_3

BATYGIN Ju.V., GORKIN L.D., LAVINSKY V.I., PROTIVEN A.S., KHIMENKO L.T.,
CHERNOGOR T.T. Experimental investigation of a magnetic-pulse forming of printed circuit boards
for electrotechnical circuits arrangement7
Conversion of electric energy parameters
PAVLOV G.V., OBRUBOV A.V., POKROVSKY M.V. Isocurrent characteristics of a series-resonant
converter with an operating frequency over than resonance one
CHIZHENKO A.I. About a reactive power balance in a three-phase RPS circuit with transformer
capacitor switching points14
KOSTJUCHENKO N.B. Controllable converters of an alternating voltage with an interval power
accumulation

20
VOLKOV I.V., GAPCHENKO L.M. A magnetic-thyristor generator of nanosecond pulses for
"KULON" LT—1,5 CU copper vapour lasers excitation
PETERGERJA Yu.S. Provision of maximum energy take-off conditions from autonomous power sources 28
Electromechanical energy conversion
VOLKOV A.V. Electromagnetic processes analysis of an asynchronous motor at an autonomous
inverter supply with a pulse-width modulation of an output voltage 32
DAN'KO V.G., BOLJUKH V.F. A conception of totally superconducting cryoturbogenerator without
a magnetic circuit

ANDRIENKO V.M., KLINGER K. To the theory of constant current electric motors43
Electrical power systems and installations
GRIGORJEV A.S., GUDYMA A.N., PIRIASHVILI B.Z., KHAKIMOV Ya.M. The main trends
of a nuclear power development in industrially developed countries46
PRIJMAK M.V. Power loads predication schedules construction on the basis of a periodic linear
random process50
RABINOVICH M.D. Discrete reorientation of solar collectors and its application for a solar-electrical
heat supply system52
KUCHERJAVAJA I.N. Numerical influence investigation of different factors of heat exchange

on transformer-rectif	ier modules cooling efficiency56
SIDOROV A.F. Stati	c frequency characteristics of power systems and their properties 61
Electrical and mag	netic measurements
LEZHOEV R.S. Cap  69	acitive pickups for small angular displacements measurements
MONASTYRSKY Z circles	Ja. Compensation principles of inner immitances in bridge measuring _ 72
DUNETS B.V. Prope components realization	er interruption handlers and procedures for measuring means virtual
	78

## **Abstracts**