

1995, No 6

CONTENTS

Electrodynamics of electrical power devices

Balakirev V.A., Gladkov V.S., Sotnikov G.V. Excitation of Zenneck waves along the sea-surface

by aperture of planar waveguide _____
_____ 3 _____

Conversion of electric energy parameters

Baranov A.N., Glazkov V.G., Puzakov A.V. Calculation of the ripple filters of pulse converters
on

the basis of prototypes-Chebyshev and Kauer
filters _____ 7

Shidlovskaiia N.A. Calculation of alternating current circuits with three nonlinear elements _____

12

Halikov V.A., Mozharovskii A.G. Commutation of booster transformer without transient mode in

the primary
winding _____

17

Electromechanical energy conversion

Verbovoi P.F., C'anov A.M., Zelenyi B.G., Sheiko A.A. Asynchronous motors with external

cast iron
rotors _____

21

Pivovarov L.V., Lazarenko A.Ja., Iagupets Iu.I. Dynamic characteristics of piston compressor
with

solenoidal electric drive _____

24

Chaban V., Kovivchak Ia. Mathematical simulation of the damping system of electrical
machines _____ 32

Pentegov I.V., Rymar S.V. Method of determination of transformer iron loss for using in

automated design systems

35

Lazarev V.L., Soroka M.V. Critical loads of conductor lying-down in transformer windings.

Windings made from subdivided PBP-typewire

41

Electrical power systems and installations

Slesarev V.V. Formation of algorithmic circuits for the problem of load-regulator control

44

Proske D., Hummel M., Kirilenko A. Means of description for development of the open control

systems for distribution substations in electrical
networks

47

Varetskii Iu.O., Bahor Z.M. Overvoltage across the thyristors of static compensators while outwardly

short-circuited to
ground _____ 52

Minguan Liu. Analysis of the correlation dependence for overvoltage across phase-to-phase
and

phase-to-ground
insulation _____
55

Tverdiakov V.V., Svirid A.S. Development of dispatcher counsellor for planned routine
switchings _____ 58

Electrical and magnetic measurements

Kizilov V.U., Lazurenko A.P. Pashchenko M.Iu. Static error of analogue signal multiplier of the
525PS2 type and computation units built around it _____
62

Volokhov S.F., Ivleva L.F. Improvement of primary inductive converter magnetic moment _____
66

Sebko V.P., Chepkov V.V., Iakimenko Iu.Ju., Vyong Bin Zyong, Do Dyk Nguen. Determination
of magnetisation curves for open-chain weakly magnetic
specimens _____ 70

Scientific and technical information

Symposiums,
conferences _____ 74

Index of papers in a year 1995 _____
76