2000, 🛘 6
CONTENTS
The Ukrainian science — a look into XXI century
GRINEVICH F.B., TARANOV S.G., Marchenko B.G., Myslovich M.V. Prospects of instrument
engineering, information-measuring systems and metrological provision development for power
industry of Ukraine
3 Electrodynamics of electrical power devices

SCHERBA A A., PODOLTSEV A.D., KUCHERJIVAJA I.N. Mathematical simulation of

a multichannel spark discharge in a granulated current conducting medium 13
LUPIKOV V.S. Magnetic field compensation at magnetic anomalies availability nearby
switch-gear surfaces18
DEGTJAREV V.V. Multipole models of a magnetic field of an engineering object for differetn
zones of an external space25
SHYDLOVSKA N A., SAMOILENKO V.G., KRAVCHENKO O.P. Unification a several methods
for processes analysis in non-linear circuit
Conversion of electric energy parameters
VOLKOV A.V. Analysis of electromagnetic processes of an asynchronous motor at direct frequency
converter supply33

BESHTA O.S. Identification of dynamic parameters of a system: voltage controller — asynchronous
motor
41
NAMESTNIK S.G., FEDIY V.S. Influence of a network frequency deviation on operation efficiency
of pageive and active filters of the third harmonic
of passive and active filters of the third harmonic44
MOSTOVJAK I.V., MOSTOVJAK D.I., FARTUSHOK I.M., PASICHNIK HA. Output voltage
of a single-phase converter of an alternating current into a constant one at inpiat resistance 48
KABANV.P., MATVEEVV.Yu. Multistation stand for thermal release devices of automatic switches50
Electromechanical energy converter
SHINKARENKO V.F. Twoness principle in electromechanical structures53

AFONIN A A. Special features of magnetic commutation electrical generators with electromagnetic	
excitation58	
Electrical power systems and installations	
ZHURAKHIVSKY A.V., KENS YuA., MEDYNSKY R.V. Influence of a flux-current charapproximation on the results of current computation in a non-linear inductance	
Electrical and magnetic measurements	
ZINCHENKO V.P. Characteristics of an information-measuring system of a pressure distribution70	
Abstracts 75	
INDEX of papers in 2000	_ 77