

2005 p., □ 1

Contents

Theoretical electrical engineering and electrophysics

ROZHNEKO Zh.G., TOLMACHEV S.T. Practical problems of a vector model construction

of ferromagnetic anisotropic materials _____
_____ 3

MOROZ Yu.L., ZIRKA S.E. Hysteresis model with
accomodation _____ 8

MALJAR V.S., MALJAR A.V. Numerical method of periodical modes analysis

of ferroresonance electric circuits _____
_____ 13

Conversion of electric energy parameters

FEDIY V.S., NAMESTNIK S.G. Three-phase monoharmonic active filters on the basis

of a series RLC-circuit and a valve
switch _____ 17

Electromechanical energy conversion

TITKO O.I., VYGOVSKY V.I., VYGOVSKY O.V. Increase of thermal stability of a stator core

in asynchronous modes at turbo-generators modernization of 100 MW
power _____ 22

SARATOV V.A. Asynchronous characteristics of a modernized turbo-generator with damper

rotor
systems _____
___ 26

PRIJMAK B.I. Models of power losses in a controllable asynchronous machine for power

saving
problems _____
___ 29

AFONIN A.A. Electromagnetic loads of electric motors with constant
magnets _____ 39

Electric power systems and installations

ZHARKIN A.F., KAPLYCHNY N.N. Analysis of high harmonics filtration efficiency in low voltage

circuits with application of harmonic currents filters which are multiple of three _____
_____ 47

GUDYM V.I., ROMANISHIN Yu.M., GUDYM V.V. Complex application of a device of

commutations operation of furnace
transformers _____ 50

LAZAREV V.I. Generalization of investigation results on the problem of electrodynamic stability

of power
transformers _____
53

Electrotechnological complexes and systems

SCHERBA A.A., PODOLTSEV A.D., LOMKO N.A., SHEKHOVTSOV V.I. Special features

of electromagnetic force value regulation in magnetodynamic installations by means of thyristor

controllers of voltage with phase control _____

61

Information measuring systems in power engineering

NOVIK A.I., KOLUPAEV Yu.P., NUZHNIENKO V.V., STADNIK A.V. Special features of
construction of

measuring circuits for operation with capacitive
pickups _____

66

MAZMANJAN R.O. Correlation functions of ordered samples of a random noncorrelated

signal_____ 71

Information

To the 75-th anniversary of academician of NAS of Ukraine
G.G.SCHASTLYVY_____ 79

In commemoration of Ivan Mironovich CHIZHENKO_____ 80

ABSTRACTS