1996, No 3

CONTENTS

Electrodynamics of electrical power devices

Baranov M.I., Bondina N.N. Imulse resistance of a cylindrical wire with lightning current
3
Vavriv L.V., Serebrianikov.A.E. Analysis and synthesis of electromagnetic fields in the impulse
electrodynamics effect stimulators9
Zrazhevskii Iu.M., Shedlovskii I.A. Simulation of input resistance of the traction of transport network with-
inductive energy transmission
Chaban V., Peleshko D., Kovivchak Ia. The mathematical model of the throttle17
Conversion of electric energy parameters
Fedii V.S. Resonance of the series LC-circuit with reverse commutator in the circuit with a capacitor

Boiko V.S., Boiko V.V., Potiazhenko I.A., Senko V.I. Calculating of the angles of control and commutating
for cascading compensating conversion systems
Kostuchenko N.B. Investigating the capacity storage charge by means of dosing condensers
Shidlovskaia N.A., Kravchenko O.P. Calculation of the circuit with nonlinear temperature dependent
resistance
34
Nikitin Iu.P., Babich L.A., Sherman M.I. The amplitude-to-phase converter based on a parallel-
wire parametric line3
7
Electromechanical energy conversion

Shumilov Iu.A., Galinovskii A.M. On the peculiarities of the operation for the combined electrical machine
with saturated magnetic circuit40
Lischenko A.1., Mazurenko L.I., Elizarenko I.M., Dgura A. V. Asynchronous rectifying generators for
transport electrical installations44
Volkov A.V. Analys the start mode of an asynchronous motor being fed from an autonomous voltage
inverter48
Kuzmin V.V., Rudnitskii L.M., Grushevskii Iu.S. Method of design of a rotor slot for the speed el ectrical
mashine.with electromagnetic excitation53
Samotii V.V., Shakia S. The peculiarities of the accelerated search of periodic modes for three-phase

1	q	q	6	П	3

transformers
58
Bogoslavskii Iu.M., Do Nguen Hyng. Adaptive microprocessor control of the excition system turbo
generator61
61
Electrical power systems and installations
Gudim V.I. Technical means of garmonic reduction in energy supplying systems67
Brzhezitskii V.A., Ho Van Niat Chyong. The peculiarities of the frequency characteristics for a
commutation voltage pulse 7
pulse7 2

1	a	9	6	П	3

Electrical and magnetic measurements
Duneth B.V. The microprocessor resistance-to-cod converter for board temperature control
of spacerafts
76