

Normal 0 false false false MicrosoftInternetExplorer4

1993, □ 4

## CONTENTS

### Electrodynamics of electric energy devices

*Podol'tsev A. D., Kucheryavaya I. N.* Numerical simulation of electrothermal processes in a

zone of high-speed sliding contact \_\_\_\_\_  
\_\_\_\_\_ 3

**Gorislavets Yu. M., Erkenov N. H.** Calculation of electromagnetic parameters of inductive

channel  
devices \_\_\_\_\_  
9

**Savluk E. A., Yakovlev M. E.** Calculation of electromagnetic devices with application of IBM

PC graphic means \_\_\_\_\_  
\_\_\_\_\_ 14

**Seredenko V. A.** Excitation of liquid metal oscillations by electromagnetic systems of

magnetodynamic installation \_\_\_\_\_  
\_\_\_\_\_ 16

**Electric energy parameters conversion**

**Sen'ko V. /., Kalinichenko A. P., Lebedenko S. A., Fan-Quok-Zung.** Algorithms of

pulse-width modulation of output voltage of three-phase bridge inverter \_\_\_\_\_  
\_\_\_\_\_ 20

**Vypanasenko S. I.** Self-excited inverters with aligned functions of power elements \_\_\_\_\_ 24

**Rychkov V. A., Ovcharenko A. A., Yurchenko O. N., Pavlov V. B., Skidanov V. M.**

Low-voltage pulse transistor converter \_\_\_\_\_ 27

**Mehta P., Darwish M., Zabolotny A. P.** A Novel Technique for Achieving Electromagnetic Compa-

tibility of Power Semiconductor Equipment \_\_\_\_\_  
\_\_\_\_\_ 31

**Sokol E. L., Domnin I. F., Fetyukhina L. V.** Analysis of arithmetic multiplier application efficiency

in controllers \_\_\_\_\_  
\_\_\_\_\_ 34

**Gorbachev V. M.** Dynamic regimes of static converters supplying plasma arc \_\_\_\_\_  
\_\_\_\_\_ 38

**Malinovsky A. A., Turkovsky V. G.** Main characteristics of arc steel melting furnaces at

different supply  
systems \_\_\_\_\_ 42

### Electromechanical energy conversion

**Voitek A. A., Kislenko V. I., Malykhin E. I. Bondarenko Yu. N.** Problems of a series of

low-voltage asynchronous motors development of a general application in  
Ukraine \_\_\_\_\_ 46

**Lischenko A. L., Farenjuk A. P., Kuz'min M. A.** Mathematical model of ship power installation

on the basis of asynchronous generator with a capacitive excitation and analog-to-digital control

System \_\_\_\_\_  
\_\_\_\_\_ 49

**Bondarenko V. I., Pisarenko V. V., Kondratjev S. G.** Microprocessor discrete electric drive of

robot-palletizer operating in rectangular coordinate  
sys-tem\_\_\_\_\_ 58

**Shinkarenko V. F.** Methods of geometric simula-tion in the problems of external designing of  
non-

traditional types of electromechanical energy converters\_\_\_\_\_ 63

## Electric power systems and installations

**Perkhach V. S., Segeda M. S., Varetsky Yu. O.** Calculation of short-circuit currents and  
non-full-

phase conditions of electric power systems in phase coordinates by loop current method\_\_\_\_\_ 67

## Electrical and magnetic measurements

**Kononenko A. G., Latenko V. I., Masjurenko Yu. A., Nizhensky A. D., Omatsky I. A.,**

**Sidorchuk V. E.** Frequency error of precision phase light range  
finders\_\_\_\_\_ 69

**Savoljuka M.** Calibration of capacitive level  
gauges\_\_\_\_\_ 71

**Sebko V. V., Sirenko N. N., Gora S. A., Chan Cuan Min', Nguen Min' Chau.**

Parameters converter for power losses determination \_\_\_\_\_  
\_\_\_\_\_ 75

### **Chronicle and information**

60-th anniversary of Academician of the Academy of Sciences of Ukraine A. K. Shidlovsky \_\_\_\_\_  
\_\_\_\_\_ 79