

# CONTENTS

---

**VOLUME 76**

**NUMBER 7**

**2005**

---

## RUSSIAN ELECTRICAL ENGINEERING

	PAGES	
	RUSSIAN/ENGLISH	
Universal MatLab-Simulink model of a generalized electrical machine. B. F. Dmitriev, A. I. Cherevko, and D. A. Gavrilov .....	3	1
Structural-topological analysis of models of the switched reluctance motor and asynchronous motor. V. N. Meshcheryakov and A. A. Petunin .....	9	9
Improved asynchronous-motor model for control systems. B. I. Reshmin.....	14	17
Dc diagnostics of the winding insulation in electrical machines. T. Glinka and M. Jakubiec .....	20	24
Wave distribution of free electrons in a current-bearing conductor. M. I. Baranov.....	25	30
Antenna-contact detection of local objects in obscuring media. G. N. Shcherbakov, M. A. Antselevich, D. N. Uditsev, Yu. M. Merkushin, and D. V. Vostrikov .....	33	38
Inductive solenoidal motion converter. V. S. Adygezalov .....	37	43
Screening properties of finite-length conducting cylinders with ferromagnetic belts. S. A. Volokhov and P. N. Dobrodeev .....	41	47
Determining the total-power components in circuits with nonsinusoidal voltages and currents by digital signal analysis. M. V. Agunov, A. V. Agunov, and N. M. Verbova .....	45	52
Voltage regulator for the pulsed power supply of a radar station. V. P. Kirienko and V. F. Strelkov .....	49	56
Application of thermoelectric converters and resistance thermometers. A. A. Demidovich and V. A. Nikonenko .....	55	65
Electrical strength of steeped metallized film dielectric. A. M. Andreev and V. S. Khaetskii .....	61	68