

**ELECTROTECHNICS. ENERGETICS. ELECTRONICS**

CONTENTS

	Pp.
CAMELIA PETRESCU, Improvement of Zone Control Induction Heating Applicator Used for Processing Circular Semiconductor Discs (English, Romanian summary) . . . . .	9
VICTOR GRIGORAȘ and CARMEN GRIGORAȘ, A New Analogue Chaotic System for Noise Generation (English, Romanian summary) . . . . .	19
DORU-FLORIN CHIPER, A Novel Systolic Algorithm for 2-D Discrete Sine Transform (English, Romanian summary) . . . . .	29
HUGO ROSMAN, The Energy Regime of a Linear, Non-Autonomous and Passive General Two-Port, Supplied, in Harmonic Steady-State, Simultaneously at the Gates (1), (1') and (2), (2'), Having Between these Gates a Non-Linear Inertial Coupling Complex Impedance (II) (English, Romanian summary) . . . . .	39
ROXANA ALDEA, Wavelet-Based Electroencephalographic Sub-Bands Decomposition to Highlight Sensorimotor Rhythms (English, Romanian summary) . . . . .	49
ALEXANDRA SAVIN and LUCIAN TRIFINA, Asymmetric Turbo-Coded Decode-and-Forward Relay Channel Performance Comparison of Component Recursive Systematic Convolutional Codes with Generator Matrices of Memory 3 and 4 (English, Romanian summary) . . . . .	59
LIVIU BRENIUC and CRISTIAN-GYŐZŐ HABA, GPS and GSM System for the Development of Car Tracking Application (English, Romanian summary) . . . . .	71
PETRUȚ DUMA, Monitoring the DS1307 Real Time Clock Using an Atmel Family Microcontroller (English, Romanian summary) . . . . .	83

VOINEA-RADU COCIU and LIVIA COCIU, Simplified Orthogonal Model in Terms of Fluxes for an Induction Machine Using PSpice (English, Romanian summary) . . . . .	95
LIVIA COCIU and VOINEA-RADU COCIU, Critical Aspects of the Simplified Orthogonal Model in Terms of Fluxes (English, Romanian summary) . . . . .	107
GHEORGHE BĂLUȚĂ, CRISTINA DIACONESCU and GHEORGHE URSANU, Digital Control of a Brushless DC Servomotor Electrical Drive Systems. Closed-Loop Control (English, Romanian summary) . . . . .	117
BOGDAN NEAGU, GHEORGHE GEORGESCU and OVIDIU IVANOV, A New Approach for Electric Energy Distribution Network Routes Optimization (English, Romanian summary) . . . . .	129
GHEORGHE GRIGORAȘ and FLORINA SCARLATACHE, Clustering to Peak Load Estimation in Transformer Substations from Electric Distribution Systems (English, Romanian summary) . . . . .	141