

CONTENTS

- 121 M. I. Andriychuk, O. O. Bulatsyk, M. M. Voytovych**
Applying the concept of generating polynomials to the antenna synthesis problem by power criterion
- 135 A. Ya. Bomba, A. P. Safonyk**
Identification of mass-transfer coefficient in spatial problem of filtration
- 144 V. F. Chekurin**
Integral photoelasticity relations for inhomogeneously strained dielectrics
- 156 L. I. Demkiv**
Research of dynamic system with unstable subsystem that has one root in the right half-plane
- 163 V. L. Karlash**
Modeling of the energy-loss piezoceramic resonators by electric equivalent networks with passive elements
- 178 P. P. Kostrobij, B. M. Markovych, R. M. Tokarchuk, M. V. Tokarchuk, Yu. I. Chernomorets**
Statistical description of electro-diffusion processes of ions intercalation in "electrolyte – electrode" system
- 195 O. S. Limarchenko, C. Cattani, V. Pilipchuk**
Structure of geometrical nonlinearities in problems of liquid sloshing in tanks of non-cylindrical shape
- 214 T. S. Nahirnyj, Y. A. Senyk, K. A. Tchervinka**
Modeling local non-homogeneity in electroconductive non-ferromagnetic thermoelastic solid
- 224 N. M. Prytula, O. D. Gryniv, V. A. Dmytruk**
Simulation of nonstationary regimes of gas transmission systems operation
- 234 Yu. Rashkevych, D. Peleshko, I. Pelekh, I. Izonin**
Speech signal marking on the base of local magnitude and invariant segmentation
- 245 J. J. Rushchitsky**
On three facts of reticences in the classical mathematical modeling of elastic materialsd
- 256 M. Sukhorolsky**
Solution of Helmholtz's equation in the plane with an elliptical hole
- 264 M. Vavrukh, N. Tyshko, S. Smerechynskyj**
Interparticle interactions, general relativity effects, and critical parameters of white dwarfs
- 284 Y. A. Zhuk, M. Kashtalyan**
Influence of microstructural transformation on quasistatic and dynamic thermomechanical response of thermally loaded disk