

## CONTENTS

### MATHEMATICAL MODELING. METHODS AND SYSTEMS OF INFORMATION PROTECTION, INFORMATION SECURITY

<b>K. E. Izrailov</b>	
Visualization multi-feature vulnerabilities of program code using principal component analysis .....	3
<b>S. N. Potapichev, V. V. Maly, Ya.A. Ivakin</b>	
Methodology rational placement of receiving antennas for positional systems hydroacoustic communications in the infrastructure for dispatching geospatial processes .....	9
<b>A. K. Sagdeev, I. G. Shterenberg, S. I. Shterenberg, O. M. Vinogradova</b>	
Development of error detection and correction unit for channel diagnostics device transmission digital information .....	15
<b>D. V. Kushnir, S. N. Shemyakin, G. A. Orlov</b>	
Representation some aspects of filtering composite numbers for cryptographic applications .....	25
<b>A. A. Minyaev, A. V. Krasov, D. V. Sakharov</b>	
Method assessing the effectiveness of the information protection system of geographically distributed information systems of personal data .....	29
<b>M.V.Buinevich, K.E. Izrailov</b>	
File classification method based on machine learning technology .....	34
<b>K. A. Akhrameeva, E. Yu. Gerling, V. E. Radynskaya</b>	
Automation visual method of steganalysis on NZB .....	42
<b>L. X. Alzayadi</b>	
Mathematical and computer technologies for the formation of probe-forming systems high-order nonlinearity .....	46
<b>N. A. Belov, L. V. Chernenkaya</b>	
Integration of end modules into modern warning systems .....	53
<b>V. I. Moiseev, V. A. Ksenofontova</b>	
Mathematical stratified hot oil cooling model in a railway tank .....	58
<b>P. V. Karelsky, I. P. Zuev, M. M. Kovtsur, D. V. Yurkin</b>	
Study and assessment of the most significant quantitative characteristics of MPLS equipment .....	62
<b>N.V. Pereborova, A.G. Makarov, I. Chalova, M. I. Alexandrova</b>	
Mathematical modeling of relaxation processes of polymeric textile materials in order to assess their functional properties .....	69
<b>N. V. Pereborova</b>	
Criteria for the qualitative assessment of the relaxation processes of polymeric textile materials in order to assess their performance .....	80

### CHEMICAL SCIENCES

<b>A. M. Kiselev, N. V. Dashchenko</b>	
Nanotechnology in the textile industry .....	89
<b>I. N. Ganiev, J. H. Dzhalyoyev, A. R. Rashidov, U.Sh. Yakubov, F. Z. Zuvaldullozoda</b>	
Kinetics solid state oxidation of aluminum-nickel alloys .....	104

<b>T. M. Portnova, N. V. Gukova, R. F. Vitkovskaya, A. O. Smirnov, A. O. Bodyagin</b>	
Innovative technologies in the process of obtaining drinking water in the State Unitary Enterprise "Vodokanal of St. Petersburg" .....	109
<b>M. G. Treiman, P. Yu. Induchny</b>	
Promising wastewater treatment methods - a comparative analysis of domestic and foreign practices .....	117
<b>S. Kh. Khasanova, Sh. Kh. Shamanov, I. A. Nabieva</b>	
Capabilities forming and coloring fibers from local polyethylene terephthalate granules.....	124
<b>AUTOMATION AND MANAGEMENT OF TECHNOLOGICAL PROCESSES AND PRODUCTIONS</b>	
<b>I. I. Wolfson</b>	
Optimization of the dynamic characteristics of machine assemblies with a variable position of the center of mass .....	127
<b>A. A. Peshekhonov, D. G. Mitroshin, I. V. Rudakova, A. V. Chernikova</b>	
Optimization of the automatic dosing process for bulk materials .....	132
Intelligence about the authors.....	137
Information for authors .....	140