

CONTENTS

| | |
|---|-----|
| Mining | 5 |
| T. K. Issabek, A. Zh. Imashev, N. B. Bakhtybayev, Sh. B. Zeitinova. To the problem of selecting vertical shafts location with combined geotechnology of developing deposits | 5 |
| T. K. Issabek, V. F. Dyomin, D. T. Ivadilinova. Methods for monitoring the earth surface displacement at points of small geodetic network under the underground method of coal development | 13 |
| R. Nakache, M. L. Boukelloul, A. Bouhedja, M. Fredj. Stability analysis of the pillars of the underground mine Chaabet El-Hamra, Algeria by analytical and numerical methods | 21 |
| Solid State Physics, Mineral Processing | 28 |
| T. Tahri, A. Bouzenzana, N. Bezzi. Characterization and homogenization of Bled El-Hadba phosphate ore, case of Djebel Onk (Algeria) | 28 |
| Geotechnical and Mining Mechanical Engineering, Machine Building | 36 |
| A. Sładkowski, A. Utegenova, A. D. Kolga, S. E. Gavrishv, I. Stolpovskikh, I. Taran. Improving the efficiency of using dump trucks under conditions of career at open mining works | 36 |
| A. P. Falendysh, N. D. Chyhyryk, A. L. Sumtsov, O. V. Kletska. The choice of the strategy of technical operation of modernized shunting locomotives. | 43 |
| A. V. Sładkowski, Y. O. Kyrychenko, P. I. Kogut, V. I. Samusya, D. L. Kolosov. Innovative designs of pumping deep-water hydrolifts based on progressive multiphase non-equilibrium models | 51 |
| M. I. Gorbunov, O. V. Fomin, O. V. Prosvirova, P. M. Prokopenko. Conceptual basis of thermo-controllability in railway braking tribo pairs | 58 |
| Electrical Complexes and Systems | 67 |
| O. O. Beshta, S. S. Khudolii, M. Neuberger, N. Neuberger. Control of energy flows in electric drivetrain of electric vehicle with extra DC source | 67 |
| O. Sinchuk, I. Kozakevych. Control system of double-rotor induction motors for hybrid vehicles. | 72 |
| A. A. Malinovskiy, V. H. Turkovskiy, A. Z. Muzychak, Yu. V. Turkovskiy. Peculiarities of the reactive power flow in the arc furnace supply circuit with improved electromagnetic compatibility | 79 |
| V. Boiko, M. Sotnyk, O. Gusak, S. Khovanskyi. Possibilities to use electroanalogy methods for analysis of working processes of water supply networks | 87 |
| Power Supply Technologies | 94 |
| V. S. Fedoreiko, M. R. Luchko, I. S. Iskerskyi, R. I. Zahorodnii. Enhancing the efficiency of energy generation systems based on solid biofuels: technical and economic aspects | 94 |
| O. V. Bobrov, D. V. Tsyplenkov, A. M. Grebeniuk, M. S. Kyrychenko. Justification of the optimum operation of electromechanical system for production and distribution of pressurized air | 101 |

| | |
|--|-----|
| Information Technologies | 108 |
| S. V. Raksha, P. G. Anofriev, V. M. Bohomaz, O. S. Kuropiatnyk. Mathematical and s-models of cargo oscillations during movement of bridge crane. | 108 |
| A. I. Shvachka, Yu. K. Taranenko, O. Yu. Oliynik, Ye. V. Chernetskyi. Applicability analysis of the Laplace integral in evaluating output signals for automatic systems | 116 |
| Economy and Management | 124 |
| S. Didenko, O. Yeshchuk, R. Topolia, L. Rusnak. Public administration in the field of coal industry. | 124 |
| I. Petrenko, G. Malkina, V. Kolyukh. Management features of modern think tanks | 130 |
| Yu. V. Honcharov, O. Yu. Mohylevska, L. V. Romanova, O. L. Feschenko. Innovative concept of the development of national economy. | 137 |
| A. O. Kyselov. Combating illegal amber mining: peculiarities of conflict resolution | 146 |
| O. Aleksandrova, I. Hroznyi, N. Vinnikova, N. Chuvasova. Control of the quality assurance system at the modern Ukrainian university. | 153 |
| S. V. Kovalchuk, D. L. Kobets, Ye. M. Zaburmekha. Modeling the choice of strategies of marketing management of enterprise personnel. | 163 |