

CONTENT

Technical science

| | |
|---|-----|
| <i>Tret'yak A.A.</i> Research vibration resistance of drill bits..... | 5 |
| <i>Voloshinovskiy K.I.</i> Filter of convolutions for luminance and contrast..... | 15 |
| <i>Komissarova M.A., Storozhuk I.N.</i> Opportunity to improve organizational and management structure of the company fuel and energy complex | 33 |
| <i>Laktionov B.I.</i> Concept of product quality control management..... | 42 |
| <i>Marukovich E.I., Bevza V.F., Grusha V.P., Krasnyy V.A.</i> Improving the operational properties of the critical parts of mining machines from alloy cast iron | 48 |
| <i>Petukhov A.N.</i> Requirements to quality superficial lauer of details GTE..... | 61 |
| <i>Sazambaeva B.T., Kuanyshев G.I., Khadeev N.T., Mustafa A.K.</i> New machines protractors..... | 77 |
| <i>Selin V.S., Tsukerman V.A., Selin I.V.</i> Reconciliation of interests in the process of innovation management of the Mining Arctic Corporation | 82 |
| <i>Stepanenko V.P.</i> Prospects of application in the mining industry renewable and combined energy storage | 93 |
| <i>Stolbikova G.E., Ivanov V.A., Korolev I.O.</i> An innovative approach to increase the harvest and to reduce emissions of peat in case of pneumatically gathering | 105 |
| <i>Vnukov A.A., Vinogradov I.K., Shabnom Mustari</i> Developing the application that demonstrate printing of the image on the lateral surface of the cylinder | 111 |
| <i>Tret'yak A.A.</i> Technology strengthening of drill bits..... | 121 |

Earth sciences

| | |
|---|-----|
| <i>Azarov A.V., Serdyukov A.S., Yablokov A.V.</i> Methods of the focal mechanism determination of microseismic events based on modeling full wave fields in a horizontally stratified media | 131 |
| <i>Aleksandrova Yu.V., Mal'skiy K.S., Romanov V.V.</i> Method of energy estimation of hybrid mining technology based on seismic data..... | 144 |
| <i>Alekseev K.N., Kurilko A.S.</i> Freeze-thawing cycles influence to destruction power intensity of cement rock armed with basalt fiber | 150 |
| <i>Borzakovskiy B.A., Aptukov V.N., Volegov S.V.</i> Geomechanical assessment of karst sinkhole formation on salt tailings piles..... | 157 |

| | | |
|--|--|-----|
| <i>Voznesenskiy A.S., Koryakin V.V., Ya.O. Kutkin, Ertuganova E.A.</i> | Assessment of properties of roof rocks and rock bolting condition by the method of the acoustic impact-effect response | 167 |
| <i>Grekishkin P.V., Razumov E.A., Zayatdinov D.F., Chugaynov S.S.</i> | Modern technologies of rock bolting and cable bolting: perspectives on implementation for different mining methods and mine conditions | 182 |
| <i>Ermolovich E.A., Donetskij S.V., Ermolovich O.V.</i> | effect of flocculants on the choice of method for strengthening of hydraulic filling mass | 201 |
| <i>Karkashadze G.G., Makarov V.A.</i> | Optimization of the mode of pumping of methane-air mixture from the goaf through a long directional wells..... | 212 |
| <i>Komogortsev B.V., Varenichev A.A.</i> | Technologies and equipment flotation of gold-sulfide ores | 222 |
| <i>Logunova M.N., Kukuy A.L.</i> | Peculiarities of morphology and the formation of twins of iceland spar from Siberian calcite province | 236 |
| <i>Malyukov V.P.</i> | Liesegang phenomenon in mineral salts with nanoparticles | 242 |
| <i>Murko V.I., Taylakov O.V., Khyamyalyaynen V.A., Shekhovtsova V.O.</i> | Environmentally friendly technologies of coal dressing and combustion waste use | 249 |
| <i>Ochosov O.Yu., Matveev A.I.</i> | Higher efficiency of mineral particle segregation under centrifugal forces due to directional vibration | 259 |
| <i>Pal'yanova N.V.</i> | Environmental management as part of restructuring of coal industry..... | 266 |
| <i>Samusev A.L., Minenko V.G.</i> | Effects of sulfate-ions on the quality of electrochemical leaching of gold from rebellious minerals | 276 |
| <i>Slastnikov V.V.</i> | Mineragenic type of ore occurrence Verkhnee-Zolotoe: results of petrographic investigation..... | 283 |
| <i>Tret'yak A.Ya., Litkevich Yu.F., Grossu A.N.</i> | Application Geyser pump for lifting pulp in hydraulic borehole mining of iron ore | 304 |
| <i>Ushakov M.V.</i> | Determining the hydrological calculated characteristics near the gold silver mine Dvoinoe..... | 312 |
| <i>Tsvetkov A.B., Pavlova L.D.</i> | Identification of patterns of nonlinear deformation of rocks in retinue of coal seams | 324 |
| <i>Cherepanova N.A.</i> | Internal control organization in the framework of process approach to management. Case study: SUEK-KUZZBASS..... | 333 |
| <i>Cherechukin V.G.</i> | Explosion hazard assessment of blind drift ventilation efficiency..... | 347 |

| | |
|---|-----|
| <i>Chernykh N.G.</i> Theory of formation of oil, gas and ore bodies of seawater in the light of theoretical principles and mechanisms of energy-active and fluid-saturated zones of the Earth..... | 352 |
| <i>Chernyshov A.V.</i> safety of stopes with rock bolting | 363 |
| <i>Shkuratnik V.L., Novikov E.A., Oshkin R.O.</i> Effect of the cryogenic dis-integration process on characteristic features of thermally stimulated acoustic emission in different types of coal | 368 |
| <i>Shubina E.A., Luk'yanov V.G.</i> Design of exploration well drilling for pre-mining gas drainage of coal seams..... | 377 |

Works of young scientist

| | |
|--|-----|
| <i>Ageenko M.M., Zorin I.A.</i> Algoritm timing ascent busy cycling..... | 390 |
| <i>Kasanov I.S.</i> Assessment of method of conversion of gold sieving characteristics for improving the accuracy of assessing the level of technological losses by example of some placers of Yakutia | 396 |
| <i>Lunevich A.S., Zorin I.A.</i> Software search sightseeing information based on recognition technology..... | 409 |
| <i>Savtsov E.A.</i> The ways of burning peat to high humidity in boiler furnaces TBZ..... | 417 |