CONTENT

Geotechnology (underground, open and construction)

Oparin V.N., Adushkin V.V., Kiryaeva T.A., Potapov V.P. Regional clustering of coal fields in Kuzbass with respect to gas-dynamics activity. Part II: Influence of geothermal, geodynamic and physicochemical processes ........................................................................ 5

Bushkov V.K. Use of kinematic stability analysis in substantiation of basic wall design parameters for open pits ............................................................................................. 30

Gudzenko V.T., Varenichev A.A., Gromova M.P. World economy and gas-hydrates ............... 43

Maloletnev A.S. Mineral wax production from bituminous lignite ............................................. 58

Raimjanov B.R., Muhitdinov A.T., Khasanov A.R. Improvement of mining technology efficiency in thick steeply dipping close-spaced or bodies under difficult geological and geotechnical conditions ........................................................................................................ 67

Sentyabov S.V. Analysis and prediction of change in stress state of shaft lining in Gaisky mine ................................................................................................................................. 79

Talgamer B.L., Semenov M.E. Generation of productive pockets during preparation of placers for dredging .............................................................................................................. 86

Turbor I.A., Shurygin D.N. Elastoplastic model of interaction between powered roof support and coal–rock mass in longwall face .......................................................................................... 94

Mine aerogasdynamics

Denysenko V.P. Some aspects of removability of face output constraint with respect to gas criterion .................................................................................................................................. 100

Slastunov S.V., Mazanik E.V., Meshkov A.A., Komissarov I.A. Breakdown fluid injection modes in underground hydraulic fracturing ............................................................................. 110

Markshadering

Yanitsky E.B., Dunaev V.A. Evaluation of rational operational exploration net parameters for the Kovdor apatite–shtafellite deposit ......................................................................................................... 118

Mining geophysics

Voznesenskiy A.S., Krasilov M.N., Kutkin Ya.O., Tavostin M.N. Laboratory system for expanded bending tests of rock specimens .................................................................................. 132

Sokolov K.O. Algorithm of the ground penetrating radar data processing to delineate deformable geological structures ............................................................................................................. 138

Mining machinery and equipment

Dmitrieva V.V., Sizin P.E. Correlation analysis and method of modeling random load flow on collecting conveyor ........................................................................................................... 145

Primychkin A.Yu. Modeling operation of ring-shape elastic valve in pneumatic percussion machines .............................................................................................................................. 156

Teryekhin E.P., Bulgakov I.S. Development of hydrotransport for chalk-and-clay slurry in wet process of cement manufacture ........................................................................................................ 163
Enrichment of minerals

Ignatkina V.A., Usichenko S.D., Milovich F.O. Effect of nonionic oxyhydril compounds and their mixtures with oleate on flotation activity of calcite ............................................................................. 169

Komogortsev B.V., Varenichev A.A. Improvement of flotation technologies for finely dispersed gold-bearing sulfide ore ........................................................................................................ 180

Geoinformatics

Alenichev V.M. Problems of geoinformation support of integrated development technologies for mineral deposits and mining waste .................................................................................. 191

Production organization and management in mining

Kradenyh I.A., Litvincev V.S. Role of management in business activity of gold mines ........ 200

Latypova M.M. Objectives of management improvement at mining companies of the building materials sector ........................................................................................................................................ 207

Sis Mue Mining industry in the Republic of the Union of Myanmar: state-of-the-art and automation upgrade potential ........................................................................................................... 213

Fire and industrial safety in mining

Morodenko E.V., Medovikova E.A. Role of safety thinking in professional activity at Kuzbass coal mines ........................................................................................................................................ 219


Special editions GIAB

Lipskiy I.V. Application of hydraulic technology in mining and construction .................. 78

Ilalova R.K., Talovina I.V., Duryagina A.M., etc. Regional geology issues ...................... 109

Choodu O.A., Mongush S.Ch., Sandan R.N., Balzanay S.V. Monitoring system repair .... 144

Team of autors Improvement of geological and surveying works in service of mining companies ........................................................................................................................................ 155

Romanova V.S., Gabov V.V. Modeling of the process of stadial weakening with future destruction of materials in high-frequency cone crusher with a free-turning inner cone ........................................................................................................................................ 162

Gusev V.N., Golovin G.D. Modification of the measuring installation for the oriented-connecting shooting using the plane of a linearly polarized laser beam ........................................ 212