CONTENT

Geotechnology

Zubkov V.P., Petrov D.N. Influence of intensity of ore drawing on losses in sublevel caving in permafrost zone ................................................................. 5
Cheban A.Yu., Kursakin G.A., Korneeva S.I., Fatkulin A.A. Method to extract bottom and pit wall reserves in small thickness ore body mining ......................... 14

Geomechanics, Rock failure

Gladyr A.V., Kursakin G.A., Rasskazov M.I., Konstantinov A.V. Method to detect hazardous areas in rock mass from seismoacoustic observations .................. 21
Linnik Yu.N., Linnik V.Yu, Zhabin A.B., Polyakov A.V. Integrated estimation of strength properties of complex-structure coal seams ........................................ 33
Trofimov V.A., Kubrin S.S., Filippov Yu.A., Kharitonov I.L. Numerical modeling of stress–strain state for host rock mass and thick gently dipping coal seam after mining completion in extraction panel ........................................ 43
Kosyreva M.A., Eremenko V.A., Gorbunova N.N., Tereshin A.A. Support design using Unwedge software for mines of Nornickel’s Polar Division ........................................ 57
Tyupin V.N., Kublikov S.N. Blasting fragmentation of ferruginous quartzites in long deflected holes in the Gubkin Mine, KMARuda ........................................... 65
Khloptsov D.V., Vinnikov V.A. Determination of rock pressure on lining of wells .......... 74
Rakishev B.R., Orynbay A.A., Auezova A.M., Kuttybaev A.E. Grain size composition of broken rocks under different conditions of blasting ....................... 83
Karpov G.N., Kovalski E.R., Smychnik A.D. Determination of rock destressing parameters at the ends of disassembling room ........................................ 95

Mining machinery

Alekseev O.N., Dadiyev M.N. Application of home-produced load haul dumpers for efficient mining of thin lode deposits ....................................................... 108
Korneeva S.I., Shemyakin S.A., Ivanchenko S.N., Gamolya Yu.A. Shovel-based disk cutter for pre-excavation treatment of frozen overburden ....................... 115
Myrzakhmetov B.A., Krupnik L.A., Sultabayev A.E., Toktamissova S.M. Mathematical model of jet pump operation in tandem oil well pumping unit ...................... 123

Mining industrial geology, Mining geophysics

Zlobina T.V. Influence of width and height of rooms on microseismic activity in potash mines ......................................................................................... 136
Turtygina N.A., Okhrimenko A.V. Quantitative assessment of natural variation in quality of copper ore in roof of intrusion ............................................... 146
Gospodarikov A.P., Morozov K.V., Revin I.E. A method of data interpretation in seismicity and deformation monitoring in underground mining in terms of the Kukisvumchorr deposit of Apatit company ........................................ 157
Gerasimova I.Yu., Kalashnikova M.M., Bobrov V.Yu. Seismic monitoring of properties and structures of the upper cross-section the zone of a doline by the refraction shooting technique .................................................... 169
Simonov B.F., Oparin V.N., Kordubailo A.O., Vostrikov V.I. Field research of generation efficiency of downhole pulse vibratory source .......................................................... 180

Enrichment of minerals

Alekseev V.S., Banshchikova T.S., Seryy R.S. Justification of magnetic separation application in processing of initial gold sand from the Bolotisty Stream primary-and-placer deposit, Lower Amur Region .............................................................. 190

Sekisov A.G., Rasskazova A.V., Litvinova N.M., Kirilchuk M.S. Integrated heap leaching of rebellious gold from altered mineral waste .......................................................... 199

Safety in emergency

Umerbekov Zh.Zh., Goncharenko S.N. Validation of efficiency of the target production safety management model introduction in the mining industry ................................. 225

Special editions GIAB

Khudyakova I.N., Agapova E.A., Ivanov S.L. Selection and substantiation of parameters of technological equipment of peat extraction complex from natural deposits ........ 168

The deposited manuscripts

Markov V.S., Nikolaeva A.A., Makarov N.A. Researches of physical-mechanical properties of permafrost coarse rocks of the «Kristall-Konechny» placer deposit ........... 20

Petukhova S.M. Statistical analysis of energy indicators of drilling machine type SBSH-250MN and modeling of its energy-technological profiles ........................................... 32

Dmitrieva V.V., A.Yu. Frolova, Frolov D.L. Development of software and hardware complex for conveyor system control ................................................................. 41

Kondratenko V.E., V.V. Devyat’yarova Strength calculation of press-classifier for separation of weak rocks ...................................................................................... 94

Petukhova S.M. Predictive modeling of electric consumption of excavator EKG-10 with methods of statistical analysis ................................................................. 122

Balakhnina E.E. Vertical shaft mine concretesupport calculation ...................................... 145

Balakhnina E.E. Vertical shaft mine tubbing lining calculation ........................................... 197