

CONTENT

Geotechnology

<i>Ovcharenko O.V., Aynbinder I.I.</i> Justification of safe parameters for rib pillar in pit wall above the Dvoinoi mine	5
<i>Verkhoturov A.G., Sabigatulin A.A.</i> Stimulation of uranium recovery by treatment of seepage zones of wells	13
<i>Mazein S.V., Voznesenskiy A.S., Pankratenko A.N.</i> Monitoring of bentonite dead weight in shield tunneling	21
<i>Mikhailov A.V., Garmaev O.J., Fedorov A.S., Garifullin D.R.</i> Efficiency of open cast peat mining with mechanical field dewatering	30
<i>Shornikov I.I.</i> Driving force prediction in microtunneling technology with slurry shields: Estimation of end forces at tunneling shutdowns—II	42

Mine aerogas dynamics, Mining thermophysics

<i>Makarov V.N., Ugolnikov A.V., Materov A.Yu., etc.</i> Modified criterion equation of hydro vortex dust suppression in coal mines	53
<i>Cherdantsev S.V., Shlapakov P.A., Lebedev K.S., Kolykhalov V.V.</i> Creation of detonation process during gas outburst in roadway at supersonic speed	62

Geoecology

<i>Tarasov P.I., Khazin M.L., Golubev O.V.</i> Mitigation of environmental impact of mining and processing industry in the Russian North and Arctic territories	74
---	----

Mining industrial geology, Mining geophysics

<i>Kaznacheev P.A., Kamshilin A.N.</i> Nonlinear mechano-electrical transformations in porous media: theoretical background	83
<i>Oparin V.N., Yushkin V.F., Grishin A.N., etc.</i> Promising trends for using seismic deformation monitoring data in drilling-and-blasting in open pit mines.....	104
<i>Rakishev B.R., Mataev M.M., Kenzhetaev Z.S.</i> Analysis of mineralogical composition of sediments in in-situ leach mining of uranium	123

Mining machinery

<i>Bardovsky A.D., Gerasimova A.A.</i> Analysis of drive mechanism of side-to-side moving flexible blade	132
<i>Biletskiy M.T., Ratov B.T., Delikesheva D.</i> Automatic mud density measurement device.....	140
<i>Klementyeva I.N., Kuziev D.A.</i> Extracting-and-loading dragline with innovative design bucket.....	149
<i>Moldabayev S.K., Aben Y., Kasymbayev E.A., Sarybayev N.O.</i> Complete cyclical-and-continuous technology equipment for intermodal vehicle-conveyor-rail transport	158

Enrichment of minerals

<i>Litvinova N.M., Lavrik N.A., Lavrik A.V., Konareva T.G.</i> Noble metal grains not under control of gravity in Iron-and-manganese ore	174
<i>Kiryayeva T.A.</i> Key factors to govern outburst hazard in Kuzbass coal	185

<i>Chernousenko E.V., Vishnyakova I.N., Kameneva Yu.S., Neradovskiy Yu.N.</i> Appraisal of capabilities of nonferrous metal recovery from old copper–nickel ore processing tailings.....	196
--	-----

Energetics and energy efficiency of mining industry

<i>Lyakhomskiy A.V., Plashchansky L.A., Reshetnyak S.N., Reshetnyak M.Yu.</i> High-voltage unit for automated monitoring of electrical energy quality in underground networks of coal mines.....	207
--	-----

Special editions GIAB

The deposited manuscripts

<i>Karpenko S.M., Yarov A.B.</i> Analysis of electricity consumption in oil refineries.....	29
<i>Kosareva-Volodko O.V., Gerasimov A.A.</i> Diagnostics of the state of three-phase asynchronous motors using the stator current spectrum research method.....	52
<i>Pichuev A.V., Dyachkov I.B.</i> Analysis of the energy performance of heat supply in the Far North	73
<i>Pichuev A.V., Zaigolnikova E.V.</i> Analysis of electric power quality indices and evaluation of their impact on the efficiency of installations.....	82
<i>Pichuev A.V., Zaigolnikova E.V.</i> The ways and means of voltage regulation in electric networks.....	131
<i>Pichuev A.V., Dyachkov I.B.</i> Research and analysis of energy profiles of PTVS in the Far North	148
<i>Kosareva-Volodko O.V., Dosymbek D.S.</i> Optimization of construction of wind turbine blades.....	157