

CONTENT

Technical science

<i>Golynskaya F.A., Smirnova O.S., Nikonov R.A.</i> Features of application of method of multi-dimensional classification by reference points to determine lignite ignitability in terms of Kharanor lignite field in Transbaikalia.....	5
<i>Avetisova E.Yu., Kulikova A.S.</i> Framework for eco-economic assessment of variants of underground utility lines construction under water bodies in towns	12
<i>Belousov A.E., Kabanov O.V., Samigullin G.Kh., Filatova I.I.</i> Use of compressed natural gas energy at small reducing points of gas grid using adjustable positive displacement gas expansion machine	18
<i>Ganopolski M.I., Pupkov V.V., Nenakhov I.A., Selyavin A.I., Fomenkova V.E., Bere-zuev Yu.A.</i> Dynamic effect of borehole pressure gas generator in rock ripping	27
<i>Grishchenkova E.N., Mustafin M.G.</i> Spatial visualization of displacement using 3DSMAX apparatus.....	36
<i>Kovrova E.A., Telegina O.V.</i> Calculation of key parameters of economic efficiency for belt conveyor at Mikhailovsky Mining and Processing Plant.....	42
<i>Latypova M.M.</i> Staffing support of mine control at the modern stage	46
<i>Lukienko L.V., Gal'chenko K.V., Litvinov I.V., Isaev V.V.</i> Expansion of application field for electric haulage for mining and transport machines using rack-and-pinion linkage.....	52
<i>Malafeev S.I.</i> Efficient solutions to current challenges in the mining industry: Unified Energy Company is 25.....	60
<i>Penkin N.S., Serbin V.M.</i> Enhancement of reliability and durability of mining and processing machines by gumming.....	71
<i>Ryzhova L.P., Nosova E.V.</i> Eco-economic efficiency of metal mine waste management	79
<i>Strashun Yu.P.</i> Technical capabilities of advanced programmable automation controllers.....	86
<i>Shabaev O.E., Bridun I.I.</i> Diagnostic engineering of cutting heads of tunneling machines.....	94

Earth sciences

<i>Belousov A.S., Alekseev O.N.</i> Process flow charts for preparing thin uranium strata for mining	102
<i>Zoteev O.V., Zubkov A.A., Kalmykov V.N., Kutlubaev I.M.</i> Development of technology for preparation of quarries for storage of tailings of dressing.....	109
<i>Kisiev N.T., Kokoeva N.B., Voropanova L.A.</i> Iron and copper extraction in integrated ore processing.....	115
<i>Lavrinenko A.A., Svechnikova N.Yu., Igumensheva E.A., Konovnitsyna N.S.</i> Use of coal flotation waste as non-conventional fuel for low-temperature fluidized bed furnaces	123
<i>Marie Constance Beavogui, Balmaev B.G.</i> Influence of grain-size composition of bauxite on its recovery at FRIA aluminum plant in Guinea	131
<i>Osipova N.V., Samoylova V.T.</i> Model of regulation system for iron content of magnetic separation concentrate	139
<i>Rusakov M.I., Shilov A.V.</i> Underground slurry preparation technology using mobile backfill plants.....	144

Sokolov I.V., Antipin Yu.G., Nikitin I.V. Basic principles and assessment criteria of technological strategy for underground mining in transition zones	151
Cherepov A.A., Shiryayev S.N., Kulak V.Yu. Justification of geomechanical parameters for room-and-pillar method of mining for thick gently dipping coal beds	161
Cherepov A.A., Shiryayev S.N., Kulak V.Yu. Stress and strain distribution in geomass under room-and-pillar mining of a thick gently dipping coal bed	170
Serafimova L.I. Kinetics of interaction and adhesion of heterogeneous particles	179
Stromonogov A.V. Optimization of non-blasting method of carbonate stone block cutting in the Russian Platform.....	185
Stromonogov A.V. Non-blasting technology of carbonate stone cutting.....	191

Works of young scientist

Biktimirova K.A. Watered rock mass quality assessment in subway construction by open pit method and in trenchless laying of underground pipelines	196
Bukreev S.V. Research and analysis of static characteristics of valve-and-inductor electric drive for geological exploration drilling rigs	204
Emel'yanov R.V., Ilyakhin S.V. Analysis of influence exerted by shape of insertion in a hole with non-explosive reaming mix on stress redistribution along perimeter	209
Korolev A.I. Improvement of shearing assembly adaptability to varying ground conditions by means of modernization of scraper transporter	214
Mazhibrada I. Expert analysis of the degree of influence exerted by factors on failure probability of hydraulics of single-bucket hydraulic open pit shovel	220
Pashchenkov P.N. Influence of Langmuir adsorption parameters on gas content of face area air and on coal cutting productivity	225
Yaroshenko V.V., Kislitsyn M.S. Estimation of influence of main roof caving on dynamic events in stopes in Troinoi bed of Vorkuta deposit.....	230

Special editions GIAB

Team of authors Mathematical modelling in the forecast system.....	70
Barabasheva E.E., Gushina T.O. Hypothesis of formation of hydrocarbons.....	101
Toshov J.B., Bronnikov I.D., Nahangov H.N. Ways to improve the efficiency of drilling exploration wells	143

The deposited manuscripts

Dmitrieva V.V., Sizin P.E. Theoretical analysis and simulation of summary stochastic freight traffic from two independent coalfaces on the main conveyor	190
Kulabukhova K.G. Methods and means for monitoring parameters of coal mine methane degasification in underground gas pipelines coal mines.....	229