

CONTENT

Technical science

<i>Alenichev V.M., Sukhanov V.I.</i> Prospects for the introduction of geo-logical information systems on the domestic mining enterprises.....	5
<i>Anokhin P.M., Afanas'ev A.I., Potapov V.Ya., Potapov V.V.</i> Mathematical model of process of separation of rock mass in the separator shelf with a curved ramp variable	16
<i>Bakhtereva Yu.A., Gudilin A.A., Skryabin O.O.</i> FEatures of investment activity of «Polyus Gold» during the financial crisis in Russia	23
<i>Isaev A.B., Alnadfa A.</i> Topological properties of quadratic form in image identification problems.....	30
<i>Kalashnikova S.P.</i> Mechanisms of promotion industrial enterprises ac-tivity in order to ecological-economic sustainable development of territories	46
<i>Kozlov O.V., Popova I.A., Savin K.S.</i> Problems and perspectives in sol-ving problems prevent negative impacts from forest and peat fires	53
<i>Larionova I.A., Litvinenko E.A.</i> Modern approaches to the manage-ment of trading activities in metallurgy	62
<i>Malovik K.N., Fedosov A.L.</i> Risk management in the operation of hazardous production facilities.....	69
<i>Minaeva E.V., Chizhik A.S.</i> The dependence of economic growth of a country from a system of factors and mechanisms of different levels of administration	78
<i>Kormnov A.A., Nikolenko P.V.</i> Safe both underground and open pit: a mining machinery leaders increase the safety of its equipment	87
<i>Molev M.D., Zanina I.A., Stuzhenko N.I.</i> Management of environmen-tal security of the territory of the liquidated mines using modeling techniques	93
<i>Mulukhov K.K., Beslekoeva Z.N.</i> research of irregular rotation of spe-cial blade reloader for unimpact loading of belt conveyors by bulky run-of-mine loads.....	102
<i>Mukharev A.A., Kubrin S.S.</i> Forecasting tracks of movements of trans-port industrial units at restricted conditions (open pit, port, drilling rig) for security provision	109
<i>Paytaeva K.T., Son N.A.</i> The innovative directions in permission of ekologo-ekonomiceskikh of problems of power branch	119

Rakisheva Z.B., Lyazat Zh.T., Mukhamedgali A., Doszhan N.S.	Preliminary design of the Al-Farabi 1 nanosatellite.....	129
Revzin S.R.	Efficiency evaluation of ecological-economic regulation of electromagnetic influence on environment	138
Ryndin V.P.	Improving the impact of drilling	146
Ryabov L.P.	An automated system design as to the problem of food security of Russian Federation.....	151
Savenok O.V., Kusov G.V.	Justification of the applicability of the exponential distribution law when assessing the reliability of the automated block of oilfield equipment	158
Stepanenko V.P.	Design of energy storage units for compound propulsion systems.....	166
Stepanenko V.P.	Application of renewable energy sources and super-condensers in open pit mining.....	175
Tatarinovich B.A., Kotlyarov V.O.	Control of two-mass system with a DC motor and change direction at the exit	183
Khalkechev K.V.	Mathematical modeling of elastic field of tension in jointed rock massif.....	190
Khostikoev M.Z., Ageev V.N.	Expansion of technological possibilities and efficiency through the use of multi-task machines in adjusting the tangential thread rolling heads.....	195
Yablonev A.L., Krutov Yu.V.	The use of modern digital service stress measurements in the study load of peat machines.....	200
Earth sciences		
Belousov A.S.	Mine planning and development at thin steeply dipping uranium ore bodies	206
Varenichev A.A., Komogortsev B.V., Gromova M.P.	The raw material base of gold Russia.....	212
Golosov P.E., Gorelov V.I.	To the question of sustainable development of Russia	221
Danilov O.S., Belov A.V., Andreev A.V., Grebenyuk I.V., Odintsova Yu.D.	Theoretical background of the transformation efficiency physical and mechanical properties of coal slurries mineral matrix using electromagnetic radiation in the terahertz frequencies aspects of their integrated recycling.....	231
Degterev V.V.	Distributed system for remote monitoring of dust concentration in coal mine air	238

Zhukov A.A. Development and adaptation of the process for diagnostics of mine shaft concrete lining in potash mines.....	245
Kabantseva N.G. Environmental insurance in the management of rational nature	255
Kormnov A.A., Nikolenko P.V. Structural diagnostics of underground excavation roof using ultrasonic noise correlation logging	265
Kuz'min M.B., Krasavin A.G., Ryzhova L.P. Strategy of development of oremetal deposits on the basis of geological and technological mapping.....	272
Kulikova A.S. To the question about ecological-economic assessment of innovative solutions for the use of underground space under water objects.....	279
Logunova M.N., Vasil'ev E.A., Ivanov M.A. Peculiarities of micro-zoning of Iceland spar from «Razlom» deposit (Siberian calcite province).....	287
Mal'skiy K.S., Romanov V.V. Analysis of underground openings using seismic and georadar methods.....	296
Melik-Gaykazyan V.I., Emel'yanova N.P., Yushina T.I. The calculation of spreading curves of nanobubbles on particle surface with different wettability Part 1. Calculation of parameters of spreading curves of nanobubbles	306
Melkonyan R.G., Abubekirov S.A., Krupskaya L.T. Tailing dump of the former khrustalnensky mining and processing integrated works: state of the art and waste usability in production of building materials.....	319
Pestrikova V.S., Tarasov V.V. Survey on distribution of corrosion wear rate of rigid equipment elements by the example of the mine shafts of Solikamsk potash mine № 3 of Verkhnekamskoye potash salt deposit	326
Petrov I.V. Economic aspects of mining enterprises transition to the principles of best available technologies	333
Prokudina E.V., Tropnikov D.L., Karataeva A.V., Shukshina O.V. The neutralization of technical sulfuric acid with the natural limestone at JSC «Svyatogor»	340
Rimkevich V.S., Pushkin A.A., Churushova O.V. Complex processing of nepheline concentrates by hydrochemical method	346
Savon D.Yu., Shevchuk S.V., Shevchuk P.V. Reducing the impact of waste potash industry on the environment	360

<i>Sidorova G.P., Ovseychuk V.A.</i> Determination of specific effective activity in the coals	369
<i>Sokolov I.V., Gobov N.V.</i> , Yu.M. Solomein, <i>Nikitin I.V.</i> Method of determining and optimizing the settings environmentally sustainable underground geotechnology the exploitation of iron ore deposits.....	379
<i>Chernyshov A.V.</i> Alternative methods of coal mining and processing	391
<i>Shigin A.O.</i> Methods to improve the efficiency of roller-bit drilling blast holes in quarries.....	397
<i>Shpakov P.S., Uruzbieva A.G., Manevich A.I.</i> Engineering-geological and geoecological monitoring of the state of complicated objects mining complex.....	406

Works of young scientist

<i>Basova A.A. (Arbekova)</i> Economy of the gas industry development (environmental-economic aspect	414
<i>Trofimov I.D.</i> On the problem of development of technology to reduce possibility of injury in organization of classes in FMX	418

Special editions GIAB

<i>Andreev A.V., Agoshkov A.I., Belov A.V. and other</i> Georesources and geo-engineering in Asia Pacific.....	165
<i>Kuzmin S.V.</i> The study of the nature of the manifestations of rock pressure in the preparatory workings, protected by pillars and the compensation cavities	286

The deposited manuscripts

<i>Sadov A.P.</i> Improving early formation of degassing on the basis of cyclic hydrodynamic effects	52
<i>Zhilgulskaya A.I., Korniliev E.O., Zhigulskiy M.A., Oganesyan A.S.</i> Mobile systems complete cycle for wood inclusions of peat deposits	145