

CONTENT

Technical science

<i>Alferova E.L., Lugin I.V., Kiyanitsa L.A.</i> Simulation of airflow disturbances to movement of trains in double-track tunnel underground	13
<i>Gusev D.O., Ryabov L.P.</i> Use CASE technology for creating business process simulation model in the mining industry.....	19
<i>Krasyuk A.M., Kosyh P.V.</i> The interaction of a tunnel fan with airflow disturbance in the metro	32
<i>Lyashenko V.I., Dyatchin V.Z., Franchuk V.P.</i> Improving the efficiency and reliability of the vibrating grizzly feeders, screens and GIC-type cranes for mining industry	48
<i>Maslennikov S.A.</i> The question of design secured upright trunk in complex mining and geological conditions	55
<i>Matvienko N.G., Radchenko S.A.</i> New opportunities for improving the forecast of areas of high gas emission from coal seams	64
<i>Mendebaev T.N., Smashov N.Zh.</i> Bicameral face hydraulic machine for well drilling	74
<i>Petrov A.E.</i> duality of networks for computer-aided design systems with variable structure	88
<i>Petrov G.M., Kuteпов A.G.</i> Analysis of the touching incidents to emergency equipment in TN electrical network system with deadly earthed neutral up to 1 kV	98
<i>Terekhin E.P., Bulgakov I.S., Chertova E.P.</i> Improvement of equipment on the pulp preparation, hydraulic transport and warehousing of tailings ferruginous quartzite in the KMA mining companies.....	104

Earth sciences

<i>Busyrev V.M., Churkin O.E.</i> Assessment of reserves value and efficiency of man-made deposits development.....	113
<i>Buyalich G.D., Buyalich K.G., Umrikhina V.Yu.</i> Calculation of fluctuations in secondary roof collapses	120
<i>Bykadorov A.I., Larichkin P.M., Svirko S.V.</i> The speeds of subsidence changing and horizontal displacements of an undermined daylight surface by the high-speed stopes of Kuzbass.....	135
<i>Volkov A.V.</i> Classification of rhythms of social and economic development for analysis and forecast of environmental management cases	147
<i>Zelenin M.Yu., Khabibulin V.R., Guchenko D.E., Baron V.L., Ganopol'skiy M.I.</i> Blasting for directed collapse of a reinforced concrete pipe with a height of 150 m in Izhevsk (Udmurtia)	160
<i>Zimbovskiy I.G., Gapchich A.O.</i> Research thermomorphic modified copolymers as selective collectors in the flotation of refractory gold mineral raw materials.....	169

<i>Karatygin D.A., Fomicheva O.E., Kharakhan O.G.</i> Intellectual system for support specialist personnel management staff, based on fuzzy sets.....	177
<i>Korzhov M.S., Savon D.Yu.</i> Innovative approach to industrial cultivation and preservation of aquaculture Azov-Don basin	186
<i>Korobova O.S.</i> National contribution of Russia to climatic regulation.....	192
<i>Krapivskiy E.I., Minnegulova G.S.</i> The methodology of parameters of transportation mixtures of liquefied hydrocarbons of low temperature pipelines.....	201
<i>Kupriyanov V.V.</i> Conceptual principles for systems problem solving	211
<i>Lugin I.V., Krasyuk A.M., Pjankova A.Yu.</i> Determining the size of soil massif exposure to thermal influence of underground subway stations	220
<i>Mikhina T.V.</i> Economic mechanisms of management of occupational risks	229
<i>Myaskov A.V., Popov S.M.</i> Methodical guides to shaping trends of using mineral components of mining waste.....	239
<i>Nguyen Duyen Phong</i> Elasto plastic model massif rock, take into account changes strength of rocks around the development for the calculation crepe distilleries subway in complex geological conditions	250
<i>Nifontov A.I., Kushnerov Yu.P., Chernikova O.P.</i> Efficient remuneration system as motivation factor for mine personnel	259
<i>Oleynik P.P.</i> On the Question of the Needs to Implement the Module of Description Finishing Processes for the Information System of Economic Production and Energy Cluster for Coal Industry	270
<i>Romanov V.V., Mal'skiy K.S., Aleksandrova Yu.V.</i> Energy parameters calculation method of blasting for underground mining.....	277
<i>Sagdieva R.K., Talovina I.V., Vorontsova N.I.</i> Modern views on the formation of nickel weathering crusts of the ultrabasic massifs in the Urals.....	288
<i>Sayyidkasimov S.S.</i> Classification of rhythms of social and economic development for analysis and forecast of environmental management cases.....	309
<i>Samigullin G.Kh., Nazarova M.N., Samigullina L.G., Yusupov G.A.</i> Evaluation of distortion of the metallic elements of oil and gas facilities with mini-sample method.....	320
<i>Sokolov S.M., Maslov V.A.</i> Metod for improving the efficiency of the froth flotation process using optical feedback.....	331
<i>Stepanyuk N.A.</i> The management of landscapes into account of the principles environmental management	337
<i>Fedorov A.M., Ryabov L.P.</i> Overview of methods for detection, calculation and analysis of country's sectors measurable indicators	343
<i>Frankevich Zh.A.</i> Economic evaluation of reliability of the underground facilities.....	353
<i>Chernyshov A.V.</i> Support-controlled caving system for stope stability	359

<i>Shulyupin A.N., Chermoshentseva A.A., Konstantinov A.V.</i> On calculation of characteristics of a layer of supply of steam-water wells using measurement data on a wellhead	367
---	-----

Works of young scientist

<i>Buraeva A.E.</i> Study aspects of the application of artificial intelligence in the digital production of jewelry	380
<i>Panov A.V., Skulkin A.A., Tsibizov L.V., Rodin R.I.</i> In situ stress evaluation by solving inverse problem based on hydrofracturing stress measurements.....	387
<i>Chapanov I.A.</i> Geographic information routing system modeling at the mining enterprise on the logistic approach basis.....	396
<i>Shcherbina A.A.</i> Selecting a formalized approach to the optimization of the plan of repair and replacement of equipment in the gas industry	404

Special editions GIAB

<i>Pankratenko A.N., Nguyen Duyen Phong, Sammal A.S., Nguyen Xuan Man</i> Research calculation multilayer lining tunnels, build in technologically heterogeneous massif rock	20
<i>Stepanov I.S.</i> Methods of analysis and evaluation of risks in systems of management of labor protection and industrial safety.....	136
<i>Neradovskiy L.G.</i> Theoretical-and-experimental estimates of amplitude attenuation in the high-frequency vertical magnetic dipole field components in frozen ground of permafrost zone in Yakutia	240

The deposited manuscripts

<i>Fomenko N.G.</i> Geological support to the dumping of dry piles of rocks on the hydraulic mine dump «Lanny Naric» in Kuzbass	65
<i>Voronin A.A.</i> New way of drainage open-pit berms to improve their sustainability	105
<i>Melnichenko A.M.</i> International experience in mining technology improvements for steep deepening narrow ore bodies.....	187