

C O N T E N T

Underground mining

Ermolovich E.A., Kirilov A.N., Ermolovich O.V. Directional changes in the properties of hardening filling mass through the application of natural fiber material	5
Zubov V.P., Cao Quoc Viet Practical experience on using mining systems of thickness and sloppiness coalseams under coal-basin Quang Ninh.....	10
Zubov V.P., Kovaslyk E.R., Cao Quoc Viet Finite-element analysis of strata movement due to mining of coal seam.....	15
Kondratenko V.E., Devyatyarova V.V. Calculation of the strength of temporary arch support tunnel.....	20
Sakantsev G.G. Resource-saving technologies in the development of ore deposits using goaf.....	29
Tkachev V.A., Prozorova Yu.A. Research into influence of tupe of support and methods of protection of support and methods of protection of development faces upon stressedly-deformed condition of bearing rock	38

Open-cast

Grigoryev S.N., Morgunov I.V. Rationale for the most effective course of mining operations at improvement of medium-sized moulds.....	44
Zhigulskaya A.I. Influence of additives from wood of a peat deposit on processes of formation of structure in formed peat production.....	52
Klebanov A.F. Strategy of efficient control over open-pit mineral mining and handling equipment using dynamic information systems.....	55
Kovalev O.V., Khoang D.N. Measures for exploitation slope coal seams under open pit mine in conditions of the Numbeo mining in Vietnam.....	60
Mikhailov A.G. Ecological and technological prospects for mining small primary deposits.....	65
Holodnyakov D.G., Loginov E.V. Mode control of mining operations and the angle of repose of the working pit.....	71

Enrichment of minerals

Kharlamova T.A., Alafedov A.F., Bakhir V.M. Electrochemical activation in technology of enrichment und recycling ores, second resourses and water purification	75
---	----

Measuring, control, diagnostics

Kopylov K.N., Smirnov O.V., Kulik A.I. Acoustic monitoring of the condition of rock mass and forecast of dynamic phenomena	82
Tavostin M.N., Koshelev A.E., Osipov Yu.V. Study of physico-mechanical properties of rock salt with the tentative comprehensive loading	89
Chronicle of historical events MGA – MGI – MGGU – MISiS	97
Samigullin G.H. The safety operation of buildings and structures petrochemical facilities and refineries in corrosive conditions.....	113
Tereshin A.A., Alekseev G.V. Recommended working procedure for geodetic monitoring of deformation of buildings in Russian Orthodox Hermitage on Anzersky Island, Solovetsky Island Group.....	119

Building of underground constructions and mines

Drozhdov A.V. Mining-and-geological and engineering problems in construction of udachny underground mine	125
---	-----

Mining cars, the equipment and transport

Zinovieva T.A. Analysis of basic research trends concerned with effect of the grinding charge dynamics on the structural integrity of vibrating mills	132
Lekontsev Yu.M., Sazhin P.V. Analysis of operation modes of initiation slot former.....	139
Pobegailo P.A. About proportions of the working equipment of hydraulic excavators	143
Poderni R.Yu. World market of advanced extraction-and-loading machines for open pit mining	148
Stepanenko V.P. Analysis of traction coefficient of mine locomotives versus rock abrasiveness	168
Stepanenko V.P., Belozеров V.I. Application of combination (hybrid) power-plants for mine transportation vehicles	174
Fashchilenko V.N., Varfolomeev S.V. Drive control system for suction-and-exhaust ventilation of processing plants	182
Kholodnikov Yu.V., Boyarskikh G.A. Repair strategy selection and processing equipment upgrading using composite materials	189

Automation and information systems

Valuev A.M. On models and optimization methods for problems of open pit design.....	197
Pevzner L.D., Babakov S.E. Mathematical modelling and control of quarry power-shovel for transportation operations	207
Khorokhonov Yu.B. Features of the design elements of the underground geotechnology in the light of the stress-strain state of mountain ranges in the MSC NASTRAN for windows	223

Aerology, methane, safety

Alymenko N.I., Nikollaev A.V. Method of ventilation mining area potash mines in reverse order mining and quarrying	228
Karkashadze G.G., Hautiev A.M-B. Modeling coal bed degassing with wells considering geomechanical stresses	235
Khyng B.V. Hazard methane on the vietnamese coal mines and prevention measures	243
Kovalev O.V., Khyng B.V. Principles of effective gas drainage schemes for overmined coal beds considering geomechanical factor.....	247
Nikollaev A.V. Installation for airing not deep pits and clean issued by the air of dust.....	250
Nikollaev A.V., Alymenko N.I., Sedunin A.M., Fajnburn G.Z., Nikollaev V.A. Analysis of a air preparation at the mine BPPMG-2	255

Economics and management

Galiev Zh.K., Galieva N.V., Saratovkin V.F. Operating effect of production plants in cement industry	266
Zhidkova E.V. Research opportunities to attract debt capital companies mineral complex through margin transactions in the stock market.....	272
Leonova O.A. The problem of economical risk in anti-crisis management at mining enterprises	277
Novoselov S.V. Systematic approach to evaluating the strategic development of the regional fuel and energy complex of russia (questions of theory, methodology and practice)	284
Oganesyan A.S., Agafonov V.V. Systems bases of monitoring of technological objects of management	289
Postnikov V.I., Tkach V.R., Agafonov V.V. Optional assessment endorsement of the validity of design decisions coal mines	296

Pchelin A.A. Operating efficiency of financial establishment (bank) in the context of undertaken information security measures	303
Pchelin A.A. Selecting estimation criterion for influence of information security measures on economical effectiveness of a bank	311
Pchelin A.A. Risks for information security of financial establishment (bank)	320
Safonova E.G. Problems of legal regulation of accounting term and sum differences in Russia	329

Electrification mining enterprises

Kostarev I.A., Sapunkov M.L. The development and research into 6–35 kV network protection against ground faults prototype device	334
Kokosadze A.E. Underground pumped storage in power engineering.....	340

Explosive works

Klishin I.V., Shchepetev E.N., Koltyshev V.N. Development and justification of concentrated greater-diameter explosive charge patterns in block mining.....	347
--	-----

Materials

Lavrinenko T.V., Sedykh B.N., Monakov A.S. Effective application of polymeric materials in industry.....	350
---	-----

Geology

Vorobjova S.V. Natural types of the pyritaceous ores and criteria for prognosis and search industrial ores (on an example of Ural Mountains)	357
---	-----

Mathematical modeling

Adigamov A.E., Khayrullina A.R. The linear programming method in planning and operating management for production of road concrete mixes	371
Dedovets M.S., Sen'ko O.V. Methods of reliability analysis based on searching of regularities in data	375
Ksendzenko L.S., Makarov V.V. Method of determining the parameters of the mathematical model the highly compressed rock mass according to the results of experimental studies	379

Works of young scientists

Bashkurov A.Yu. Optimization of centralized and localized energy supply of mineral exploration services customers	386
Nosenko V.V. Principles of mining equipment maintenance management	392
Tadzheddinova A.E. Camels rating system in the context of Russian banking sector	397
Khoang D.N. Analysis of requirements of underground mining under structures and natural objects in conditions of Vietnam.....	401
Shamkeev S.A. Role of the Foreign Investment and the strategy to attract them in the CIS countries.....	405
Yakovleva T.P. Geoecological aspects of prospecting works. The example of the oil and gas-field placed in Eastern Siberia	411

Preprints

Maslov M.I. The experimental confirmation of the theory of cutter-loader work with vibrating action of the end-effector to the rock's face	54
Fedorov A.V., Kuletsky V.N., Velikoselsky A.V. and other The experience of building management system development coal company	59

Krylov I.O., Epikhin A.N., Yushina T.I., Lugovskaya I.G. The use of manganese raw material for high-temperature cleaning of producer gas (syngas) from hydrogen sulfide in coal gasification and large-scale production of coal-family nanotubes (CNTS).....	196
Plotnikov N.V., Goncharuk O.C., Pesotsky A.A. and other Economic security and economic sustainability.....	246
Trubetskoi K.N., Kaplunov D.R., Rylnikova M.V. and other Terms of stable functioning mineral feed complex of Russia. Number 2	318
Vasychkov Y.F., Fedorova M.A. Classification of unconventional technologies for hard economic minerals extract.....	356
Shtym K.A., Dorogov E.Yu., Soloveva T.A. and other Experience of effective use of energy resources of the Far East.....	369
Kaplan A.V., Pikalov V.A. Concept, strategy and principles of management of socio-economic development of the mining enterprise.....	374
Mesyats S.P., Volkova E.Yu., Birukov V.V., Nikitin R.M, Ostapenko S.P., Petrov A.A. Ecological resource use	400
Morgunov Yu.N., Burenin A.V., Aksenov V.P. and other Remote sensing methods, techniques and algorithms in applied research problems in natural environments	409
Yushina T.I., Petrov I.M., Avdeev G.I. and other The future use of natural and man-made iron ore raw materials in the Russian Federation	416