

CONTENT

Geomechanics, Rock failure		
<i>Zhabin A.B., Polyakov A.V., Averin E.A., etc.</i>	Integrated effect of size on ultimate compressive strength of rock samples	5
<i>Pashkin A.I., Vinnikov V.A., Cherepetskaya E.B.</i>	Determination of internal structure of geomedium using ABCD matrices and shadow method	14
<i>Tyupin V.N., Ponomarenko K.B.</i>	Method to determine rock mass stresses in mining with blasting	27
Mine aerogasdynamics, Mining thermophysics		
<i>Gendler S.G., Borisovsky I.A.</i>	Selection of ventilation method for deep open-pit mines in the Arctic with regard to variability of meteorological data on atmospheric air.....	38
Geoinformatics		
<i>Ponomarenko M.R., Kuteпов Yu.I., Shabarов A.N.</i>	Open pit mining monitoring support with information and analysis using web mapping technologies.....	56
Geotechnology		
<i>Loginov E.V., Volf V.V.</i>	Parameters of flow charts for hydraulic backhoe excavation of sand-and-gravel deposits	71
Mining machinery		
<i>Galkin V.I., Dobler M.O.</i>	Structural features of belt conveyor of RopeCon® type.....	85
<i>Mikhailov A.V., Kazakov Yu.A.</i>	Estimation procedure of multiple passability of hauling unit on weak ground.....	95
<i>Nosenko A.S., Domnitsky A.A., Nosenko V.V., etc.</i>	Theoretical study of bunker loaders with gravity feeding	111
<i>Turuk Yu.V., Sysoev N.I., Lugantsev B.B., etc.</i>	Selection of the type and design of the shield base of powered support units	121
Enrichment of minerals		
<i>Morozov V.V., Pestryak I.V., Kovalenko E.G., etc.</i>	Stimulation of frother separation of diamonds by optimizing collecting agent composition and temperature conditions	135
Theoretical bases of designing of mining-technical systems		
<i>Kupriyanov V.V.</i>	Identification of accident classes in coal mines using the neural network technology	148
Production organization and management in mining		
<i>Konyukhov D.S.</i>	Safety of existing buildings during underground mining	158
<i>Shulyatiева L.I., Mayorova L.V.</i>	Parametric modeling and arrangement of gas drainage in coal mines	168