

# CONTENT

## Mining industrial geology, Mining geophysics

- Zhukova S.A., Zhuravleva O.G., Onuprienko V.S., Streshnev A.A.** Seismic behavior of rock mass in mining rockburst-hazardous deposits in the Khibiny Massif.....5
- Iakovleva E.V., Belova M.V.** Statistical analysis of different-scale samplings of natural electromagnetic radiation parameters in detection of geodynamically active faults .....18

## Geotechnology

- Kholmiskiy A.V., Fomin S.I.** Substantiation of blast-free technology for mining rockburst-hazardous bauxite deposits using hydraulic breakers.....40
- Cheban A.Yu., Sekisov A.G., Khrunina N.P., Vasyanovich Yu.A.** Mixed-type technology of crystal mineral mining.....55

## Safety in emergency

- Shaportov A.V.** Fire protection systems on conveyor transport in mines .....68

## Mining machinery

- Ovchinnikov N.P.** Justification of vertical split casing pump delivery at withdrawal for basic repair .....79
- Plokhikh V.V.** Pneumatic percussion tool to implement adaptive technologies.....91
- Rechkin A.A.** CFD-modeling in design and research of pneumatic and hydraulic percussion tools .....104

## Geomechanics, Rock failure

- Gospodarikov A.P., Zatsepin M.A., Vykhodtsev Ya.N., Nguen C.T.** Numerical modeling of seismic wave impact on enclosing rock mass surrounding underground structures.....115
- Kayumova A.N., Balek A.E., Kharisov T.F.** Assessment of heading safety in close-spaced permanent roadways in difficult geological and geotechnical conditions.....131

## Geoinformatics

- Iovlev G.A., Piscunov N.S., Bahvalov E.D., Ochkurov V.I.** Optimizing nonlinear soil body models for geotechnical conditions of Saint-Petersburg.....148

## Energetics and energy efficiency of mining industry

- Sychev Y.A., Aladin M.E., Zimin R.Y.** Multi-function filter compensation devices in composite power supply systems in mining industry .....164