

CONTENT

Geomechanics, Rock failure

Suprun V.I., Levchenko Ya.V., Kolotovkin A.S., Voroshilin K.S. Size effect on rock strength 5

Chanyshv A.I., Abdulin I.M. Determining displacements of boundary of underground openings after drirage 20

Geotechnology

Mashin A.N. Concept of integrated technical evaluation of mine shafts 31

Markshading, Geometry of subsoil

Pimenov Z.G., Bakhaeva S.P. Strata drainage to prevent accumulation of atmospheric precipitations in rock dumps 43

Mining machinery

Ovchinnikov N.P. Technical control of multistage pump balance ring 56

Enrichment of minerals

Dvoichenkova G.P., Podkamenny Yu.A., Timofeev A.S., Nikitina Yu.N. Experimental substantiation of using ultrasound and electrochemical exposure in adhesive separation of diamond-bearing raw materials from Nakyn kimberlite field 74

Kayumov A.A., Ignatkina V.A., Ergesheva N.D. Kinetics of electrode potentials of sulfide mineral electrodes in the presence of flotation modifiers 89

Lavrinenko A.A., Kunilova I.V., Gol'berg G.Ju. Influence of low-temperature calcination of coal ash with alkaline agents on efficiency of valuable component recovery 104

Razmakhnin K.K., Khatkova A.N., Shumilova L.V., Nomokonova T.S. Ash residue beneficiation and processing technology 122

Technosphere safety in mining industry

Yessenov M.K., Ramatullaeva L.I., Kolesnikov A.S., Ivakhniyuk G.K. Aspects of ecological modernization of technological equipment to reduce the level of dust from mining and processing production 136

Energetics and energy efficiency of mining industry

Babokin G.I., Shprekher D.M., Kolesnikov E.B., Ovsyannikov D.S. Economics of electric energy consumption by longwall scraper conveyor drives 149

Production organization and management in mining

Epshtein S.A., Shinkin V.K. Current issues in application of classifiers for marketable products of coal in Russian market turnover and in export 164