

CONTENT

Mining machinery

Dmitrieva V.V., Sobyenin A.A., Sizin P.E. Slip-free braking algorithm for belt conveyors 5

Afanasyev A.I., Zubov V.V., Simisinov D.I., Chirkova A.A. Rock grinding in centrifugal mills..... 18

Geotechnology

Nosyrev G.M., Rudenko A.A., Danileiko V.V. Intelligent technology potential in enhancement of in-situ uranium leach efficiency 30

Geomechanics, Rock failure

Aliev M.M., Sozontova E.A. Representation of the generalized Mohr–Coulomb failure criterion of anisotropic rocks in the Haigh–Westergaard stress space 42

Evstratov V.A., Voronova E.Yu., Lugantsev B.B., Isakov V.S., Kholodova L.A. Mathematical model of load prediction on horizontal mine tunnel support 54

Isheisky V.A., Ryadinskii D.E., Magomedov G.S. Calculation of burden by the first row of blastholes in complex-structure rock mass blasting with regard to cracked zone radii 64

Chanyshv A.I., Abdulin I.M., Gorodilov L.V. Stress–strain assessment of rock mass around cylindrical opening by its boundary displacement measurements 80

Geoecology

Chukareva A.A., Mikheev D.I. Analysis and optimization of calculation methods for emissions of air pollutants by stationary sources in mineral mining industry 95

Shabanov M.V., Marichev M.S., Burachevskaya M.V., Kirichkov M.V., Tsitsuashvili V.S. Current condition of acid sulfate water of the Karabash geotechnogenesis system..... 108

Enrichment of minerals

Kozin V.Z., Komlev A.S. Comparison of continuous analyzer indications with point assaying data of products at processing plants 125

Technosphere safety in mining industry

Diakonov M.V., Gerasimova I.Y., Maleev E.E., Stepanov Y.I., Shulakov D.Y. Justification of integrated monitoring system for geological environment of potassium salt deposit..... 136

Fedotkin I.O. Key factors of coal mining in world’s leading countries..... 153

Production organization and management in mining

Zhilinkov A.A., Lagunova Yu.A. Mathematical model of material flow analysis at asbestos mining and processing plant 168