

|  |     |
|--|-----|
| <b>Mining</b>  | 5   |
| <b>V. V. Prykhodko, N. P. Ulanova.</b> Modeling of stress-strain state of fractured rock mass nearby of conjugated workings  | 5   |
| <b>R. M. Kondrat, A. V. Uhrynovskyi, O. S. Sendeha, V. Ye. Blizniakov, T. V. Potiatynnyk.</b> Pilot testing technology to clean gas pipelines in Khidnovytske gas field                            | 12  |
| <b>R. M. Tereshchuk, N. V. Khoziaikina, D. V. Babets.</b> Substantiation of rational roof-bolting parameters   | 19  |
| <b>O. O. Anisimov,</b> Research on parameters of the working area on an internal dump for developing open pits   | 27  |
| <b>A.O. Kozhevnykov, A. Yu. Dreus, Baochang Liu, A. K. Sudakov.</b> Drilling fluid circulation rate influence on the contact temperature during borehole drilling                                  | 35  |
| <b>Solid-State Physics, Mineral Processing</b>   | 43  |
| <b>Z. Mekti, M. Bounouala, M. Chettibi. A. Boutemedjet.</b> Industrial application of blast furnace slag as a substitute for sand at the cement plant of Hadjar-Soud (Algeria)                     | 43  |
| <b>O. V. Zabolotnyi, V. A. Zabolotnyi, M. D. Koshevoi.</b> Conditionality examination of the new testing algorithms for coal-water slurries moisture measurement                                   | 51  |
| <b>Geotechnical and mining mechanical engineering, machine building</b>  | 60  |
| <b>K. Yu. Deineka, Yu. V. Naumenko.</b> The tumbling mill rotation stability   | 60  |
| <b>P. Ya. Pukach, I. V. Kuzio, Z. M. Nytrebych, V. S. Il'kiv.</b> Asymptotic method for investigating resonant regimes of nonlinear bending vibrations of elastic shaft                            | 68  |
| <b>Power Supply Technology</b>   | 74  |
| <b>A. S. Bondarchuk.</b> Investigation of the influence of higher harmonic curves on the calculated loading of the network solar electric station with 30 kW power                                 | 74  |
| <b>A. A. Malinovskyi, V. H. Turkovskyi, A. Z. Muzychak, M. B. Sabat.</b> Generalized approach to modes analysis of modern heat supply systems  | 80  |
| <b>Environmental safety, labour protection</b>   | 89  |
| <b>V. V. Sobolev, Ye. B. Ustimenko, M. M. Nalisko, I. L. Kovalenko.</b> The macrokinetics parameters of the hydrocarbons combustion in the numerical calculation of accidental explosions in mines | 89  |
| <b>V. V. Tiutiunyk, H. V. Ivanets, I. A. Tolkunov, E. I. Stetsyuk.</b> System approach for readiness assessment units of civil defense to actions at emergency situations                          | 99  |
| <b>Information technologies, systems analysis and administration</b>   | 106 |
| <b>G. G. Diachenko, O. O. Aziukovskyi.</b> Control laws of electric drives as a result of an in-depth kinematic analysis of the delta robot  | 106 |
| <b>I. M. Udovyk, A. I. Simonenko, O. A. Zhukova, S. D. Prykhodchenko.</b> Electromechanics system modelling of hydrotransport at an enrichment plant   | 112 |
| <b>M. M. Semegen, P. Taras.</b> Way of determining the spatial distribution of stresses along the main pipeline section using ultrasonic method  | 119 |
| <b>Economy and management</b>  | 124 |
| <b>T. B. Reshetilova, T. V. Kuvaieva.</b> Modeling of business forms of the industrial enterprise in the conditions of high instability of the external environment                                | 124 |
| <b>I. Liashenko, S. Rudenko.</b> The management features of the university preparatory department  | 132 |
| <b>S. V. Lyeonov, T. A. Vasylieva, O. V. Lyulyov.</b> Macroeconomic stability evaluation in countries of lower-middle income economies   | 138 |
| <b>O. G. Vagonova, D. V. Arzhevichev, O. M. Cherkashchenko.</b> Economic rationale for a strategy of further uranium production waste management   | 147 |
| <b>T. Olejarz, V. Nitsenko, O. Chukurna, M. Mykhailova.</b> Evaluation of factors influencing labour performance of machine-building enterprises in mining industry                                | 154 |
| <b>S. M. Turpak, I. O. Taran, O. V. Fomin, O. O. Tretiak.</b> Logistic technology to deliver raw material for metallurgical production   | 162 |