

| | |
|--|-----|
| Mining | 5 |
| S.Vlasov, S.Tymchenko, O.Sinitsyna, O.Buhrim. The impact of residual magnetization on accelerating grout mixture coagulation processes and their physical and mechanical properties | 5 |
| O.Sdvyzhkova, Yu.Golovko, D.Klymenko. Effect of harmonic oscillations on a crack initiation in the rock mass | 13 |
| I.O.Sadovenko, A.M.Zahrytsenko, O.O.Podvihina. N.I.Dereviahina. Water balance control within rock mass using the capacity of water-bearing formations | 19 |
| Solid-State Physics, Mineral Processing | 27 |
| V.V.Sobolev, N.V.Bilan, A.V.Khalymendyk. On formation of electrically conductive phases under electrothermal activation of ferruginous carbonates | 27 |
| Geotechnical and mining mechanical engineering, machine building | 36 |
| I.O.Taran, M.M.Trubitsyn. Analysis of the error obtaining while determining characteristics of rotor system within the run-down | 36 |
| O.P.Lukianchuk, O.P.Ryzhyi, R.M.Ihnatiuk. Design of tiered operating unit for deep differentiated tillage | 43 |
| Electrical complexes and system | 49 |
| M.I.Kotsur, P.D.Andrienko, I.M.Kotsur, O.V.Blyzniakov. Converter for frequency-current slip-power recovery scheme | 49 |
| V.S.Loveikin, Yu.O.Romasevych. Dynamic optimization of a mine winder acceleration mode | 55 |
| V.M.Kuvaiev, D.O.Beshta. Dynamic model of interaction of mechanisms on the section between the roll mill stand and the coiler in the process of wire winding by Garrett reel | 61 |
| S.K.Podnebenna, V.V.Burlaka, S.V.Gulakov. Three-phase power supply for resistance welding machine with corrected power factor | 67 |
| V.V.Nitsenko, D.O.Kulahin. Research on effect of differential-phase protection of busbars system with voltage of 110–750 kV | 72 |
| Environmental safety, labour protection | 80 |
| V.A.Ryabchii, V.V.Ryabchii, M.V.Trehub, Yu.Ye.Trehub. Substantiation of land parcel configuration in buffer zones | 80 |
| Information technologies, systems analysis and administration | 86 |
| M.H.Berdnyk. Mathematical model of and method for solving the Neumann generalized heat-exchange problem for a cylinder with homogeneous layers | 86 |
| I.K.Mladetsky, Ya.H.Kuvaiev, N.S.Pryadko. Control regularities of the useful mineral extraction from ore feed stream with ball grinding. Correlation analysis | 91 |
| O.Sheremet, O.Sadovoy. The method of automatic control system synthesis on the base of discrete time equalizer | 99 |
| O.M.Pihnastyi. Analytical methods for designing technological trajectories of the object of labour in a phase space of states | 104 |
| Economy and management | 112 |
| S.V.Voloshyna, L.D.Kostakova. Simulation analysis of relationship between production cost and natural environment of iron ore extraction and processing | 112 |
| O.V.Bondar-Pidhurska, V.P.Solovyov. The strategy of sustainable innovative society-oriented development of Ukrainian economy (by the example of mineral resource industry) | 122 |
| M.Ivanova. Theoretical aspects of the system decomposition of the logistics system elements | 132 |
| A.N.Privalov, Yu.I.Bogatyreva, V.A.Romanov, V.N.Kormakova. Safe information environment as a quality indicator of educational institution management | 140 |
| N.Y.Shramenko. Methodological aspect of substantiating the feasibility of intermodal technology for delivery of goods in the international traffic | 145 |
| O.V.Panukhnyk, N.Yu.Marynenko, I.Yu.Kramar. Synthesis of effective components of the mechanism of managing adaptive development of production and economic organizations | 151 |