

# CONTENTS

<b>Mining</b> .....	5
<b>O. O. Shustov, O. P. Bielov, T. I. Perkova, A. A. Adamchuk.</b> Substantiation of the ways to use lignite concerning the integrated development of lignite deposits of Ukraine .....	5
<b>V. S. Falshtynskiy, R. O. Dychkovskiy, P. B. Saik, V. H. Lozynskiy, E. C. Cabana.</b> Substantiation into “rock massive – underground gasifier” system adaptability of Solenovskiy site in the Donetsk coal basin .....	14
<b>A. O. Bondarenko.</b> Theoretical bases of pulp suction process in the shallow dredge underwater face .....	22
<b>M. Fredj, A. Hafsaoui, Y. Khadri, R. Boukarm.</b> Influence of the failure surface choice on the safety factor value during slope stability studies .....	30
<b>A. M. Matvienko, V. M. Savyk, P. O. Molchanov.</b> Multilevel system of magnet and thermal deparafinization with external insulating coatings .....	36
<b>B. Yu. Sobko, O. V. Lozhnikov.</b> Determination of cut-off wall cost efficiency at Motronivskiy pit mining .....	44
<b>Geotechnical and Mining Mechanical Engineering, Machine Building</b> .....	50
<b>V. P. Sakhno, V. V. Kravets, K. M. Bas, V. V. Krivda.</b> Orientation of natural trihedral of the spiral-helix supporting trajectory of spatial vehicle movement .....	50
<b>I. N. Matsyuk, E. M. Shlyahov, O. I. Yehurnov.</b> Some aspects of synthesis of linkage of complex structures .....	57
<b>S. V. Strutynskiy.</b> Defining the dynamic accuracy of positioning of spatial drive systems through consistent analysis of processes of different range of performance .....	64
<b>V. P. Shpachuk, M. A. Zasiadko, V. V. Dudko.</b> Investigation of stress-strain state of packet node connection in spatial vibration shakers .....	74
<b>O. V. Solodyankin, N. M. Shepel, V. H. Shapoval.</b> Protection of objects from the influence of long-term dynamic loads .....	80
<b>S. Kryshchtopa, A. Kozhevnykov, M. Panchuk, L. Kryshchtopa.</b> Influence of triboelectric processes on friction characteristics of brake units of technological transport .....	87
<b>V. Mazorchuk, I. Naumova, S. Repyakh, S. Sharkova.</b> The stresses in the hollow cylindrical combined castings . . .	94
<b>N. P. Yaroshevich, I. P. Zabrodets, B. I. Dutchak, T. S. Yaroshevich.</b> Start dynamics of vibrating machines with unbalanced drive considering its elasticity .....	100
<b>T. N. Kolesnikova, O. P. Sakno, O. V. Lysyi, N. O. Velmagina.</b> Mathematical modeling of the operating process of the engine and means of increasing service life of vehicles .....	108
<b>Electrical Complexes and Systems</b> .....	115
<b>Y. S. Paranchuk, V. H. Lysiak.</b> Energy efficient power supply system and automatic control of modes of the “power supply – pumping station” complex .....	115
<b>Environmental Safety, Labour Protection</b> .....	125
<b>V. I. Hryniuk, L. M. Arkhylova.</b> Regularity of effects of climatic changes on quality indicators of surface water of the Dniester basin .....	125

---

<b>Information Technologies, Systems Analysis and Administration</b> .....	134
<b>M. H. Berdnyk.</b> The mathematic model of and method for solving the Neumann generalized heat-exchange problem for empty isotropic rotary body. ....	134
<b>Economy and Management</b> .....	139
<b>O. Kyvliuk, O. Polishchuk, D. Svyrydenko, O. Yatsenko.</b> Educational management as education diplomacy: strategies for Ukraine .....	139
<b>A. Kostyshin, L. Tibilova.</b> Indicators of environmental sustainability of an area in managerial decisions. ....	145
<b>A. Klymchuk.</b> The labor assessment in forming the enterprise personnel's motivation .....	152
<b>O. M. Kovalko, N. M. Kovalko, O. V. Novoseltsev.</b> Result-oriented investment management system for targeted energy efficiency programs. ....	160
<b>D. Nelipa, O. Batrymenko, S. Rudenko, I. Liashenko.</b> Higher education management in Ukraine: will generation change help us transform it faster? .....	167