

## CONTENT

### GEOSCIENCES

|  |    |
|--|----|
| <i>Litvinskiy G. G.</i><br>ANTAGONISM AND THE CONFLICT OF SCIENTIFIC DOCTRINES<br>IN MINING ENGINEERING . . . . .                            | 7  |
| <i>Litvinskiy G. G.</i><br>STATIC OF DESTRUCTION AND DEFORMATION OF ROCK AROUND THE MINE<br>WORKING . . . . .                                | 19 |
| <i>Driban V. A., Dubrova N. A.</i><br>FILTRATION MODEL OF A REPEATEDLY WORKED-OUT MASSIF . . . . .   | 31 |
| <i>Rutkovskiy Yu. A., Rutkovskiy A. Yu.</i><br>RESONANT OPERATIONAL CHARACTERISTICS OF PISTON COMPRESSOR . . . . .                           | 38 |
| <i>Shubin Yu. P.</i><br>GEOARCHEOLOGICAL RESEARCH IN DONBAS STATE TECHNICAL UNIVERSITY . . . . .   | 47 |
| <i>Larchenko V. G., Matalkina Yu. A.</i><br>DEPENDENCE OF THE MAXIMUM EARTH SURFACE SUBSIDENCE FROM<br>THE MAIN DEFINITIVE FACTORS . . . . . | 53 |

### METALLURGY AND MATERIAL SCIENCES

|  |     |
|--|-----|
| <i>Ivasenko V. V., Kobzev V. K., Novokhatsky A. M., Padalka V. P.</i><br>RECONSTRUCTION THE RAW-ORE STOCKYARD OF AGGLOMERATION SHOP<br>OF BRANCH № 2 AT "ENAKIYEVO IRON-AND-STEEL WORKS" CJSC<br>"VNESHTORGSERVICE" . . . . .                      | 61  |
| <i>Novokhatskiy A. M., Blinov A. M.</i><br>TYPE OF MELTING PRODUCTS TAPPING ACCORDING TO GEOMETRIC<br>PARAMETERS OF TAPHOLE CHANNEL . . . . .  | 67  |
| <i>Riabicheva L. A.</i><br>PROSPECTS OF DEVELOPING THE METHODS OF NANOMANUFACTURING. . . . .   | 72  |
| <i>Kuberskiy S. V.</i><br>ANALYSIS OF THE PARAMETERS OF THE ARC DEEP REDUCTION METHOD AT THE<br>SIMULTANEOUS PROCESSING OF MELT WITH TWO ORE-REDUCING BLOCKS . . . . .   | 79  |
| <i>Lukyanov A. V., Zubenko A. V., Ivasenko V. V.</i><br>EFFICIENT OPERATION OF THE AGGLOMERATION SECTION OF BRANCH NO. 2<br>"EISW" OF CJSC "VNESHTORGSERVICE" WITH THE EXPANSIVE USE OF<br>SECONDARY RESOURCES AND PELLETS IN THE CHARGE . . . . . | 86  |
| <i>Karpov A. V., Karpova K. S., Novokhatskiy A. M., Dimentiev A. O.</i><br>ANALYSIS OF VALUE OF THE CHEMICAL COMPOSITION VARIATIONS ALONG THE<br>CIRCUMFERENCE OF THE BLAST FURNACE HEARTH . . . . .   | 92  |
| <i>Korobko T. B., Rybalko E. M.</i><br>CALCULATING METHOD FOR TECHNOLOGICAL PROCESS OF DEEP DRAWING<br>WITH ALTERNATING LOADING OF AXISMETRIC DETAILS . . . . .  | 98  |
| <i>Denischenko N. P., Bevez A. A.</i><br>MODELING OF THE PROCESS OF COMPONENTS FORMALIZATION WHEN ROLLING<br>THE SYMMETRIC BIMETALLIC FOUR-LAYER SANDWICH WITH THE BASIC STEEL LAYER<br>ST3, THE CLADDING STEEL LAYER 15X13 . . . . .              | 103 |

## CIVIL ENGINEERING AND ARCHITECTURE

|   |     |
|---|-----|
| <i>Drozd G. Ya.</i><br>RECYCLING AND UTILIZATION OF BUILDING OBJECTS DESTROYED DURING THE<br>WAR IN DONBASS ..... | 111 |
| <i>Drozd G. Ya.</i><br>DEVELOPING OF WASTE MANAGEMENT SECTOR IN DONBASS .....                                     | 119 |

## MECHANICAL ENGINEERING AND MACHINE SCIENCE

|   |     |
|---|-----|
| <i>Sidorov V. A., Oshovskaya Ye. V., Agarkov A. A.</i><br>STEADY-STATE SYSTEMS FOR VIBRATION CONTROL OF THE MECHANICAL<br>EQUIPMENT .....   | 127 |
| <i>Eron'ko S. P., Tkachev M. Yu., Oshovskaya Ye. V.</i><br>REGRESSION ANALYSIS OF THE EXPERIMENTAL STUDY RESULTS ON THE IMPACT<br>LOAD TRANSFER PROCESS BETWEEN THE MOVABLE COUPLING ELEMENTS OF<br>THE MECHANICAL SYSTEM ..... | 133 |
| <i>Vishnevskiy D. A.</i><br>CALCULATING THE RELIABILITY OF METALLURGICAL EQUIPMENT AND PRODUCTION<br>RISK. ....   | 139 |
| <i>Ulianitskii V. N., Petrov P. A., PhD Ulianitskaya O. V., Korobov P. Yu.</i><br>OPERATION FEATURES OF THE ROLLER MILLS FOR DUST COAL PREPARATION .....  | 146 |
| <i>Moroz V. V., Rubezhansky V. I., Levchenko E. P.</i><br>ANALYSIS OF PROVIDING THE OPPORTUNITIES FOR THE MULTI-STAGE WORK OF<br>A SINGLE-GEAR GRAVING CRUSHER. ....  | 153 |
| <i>Levchenko E. P., Tumin A. N., Pavlinenko O. I.</i><br>USING THE HYDRAULIC DRIVE IN CENTRIFUGAL ROTOR-IMPACT MILL . ....  | 158 |