

**CONTENT****GEOSCIENCES**

<i>Litvinsky G. G.</i> MINE PIPE-CONCRETE STRUT (SPC) .....	5
<i>Polozov Yu. A., Lazebnik A. Yu.</i> METHOD OF ISOLATION THE EMERGENCY PILOT HOLES IN THE CONSTRUCTION OF VERTICAL SHAFTS IN POTASH DEPOSITS .....	17
<i>Denisenko V. P., Bezborodov V. A.</i> ZONING OF COLLIERY GAS RELEASE TO THE SURFACE OF MINE TAKES OF THE CLOSED COAL MINES .....	24
<i>Kiziyarov O. L., Zayev V. V., Bizianov E. E.</i> GEOMECHANICAL SUBSTANTIATION OF THE PARAMETERS OF WELL RELIEVING THE PRELIMINARY DEVELOPMENT IN DEEP MINES .....	32

**METALLURGY AND MATERIAL SCIENCES**

<i>Eron'ko S. P., Tkachov M. Yu., Ponomarenko A. G.</i> DESIGN ENGINEERING AND ASSESSMENT OF PROCESS LOADS OF THE NEW UNLOADING SYSTEM OF THE ROASTING SHAFT FURNACE .....	43
<i>Kuberskiy S. V.</i> ACTUALITY OF BUILDING THE MICRO-PLANTS IN THE METALLURGICAL COMPLEX OF THE PEOPLE'S REPUBLICS OF DONBASS .....	52
<i>Belov B. F., Babanin A. Ya., Ponomarenko A. G., Abakumov I. A.</i> CLASSIFICATION OF SILICOCALCIUM ALLOYS AND MECHANISM OF STEEL REFINING .....	63

**CIVIL ENGINEERING AND ARCHITECTURE**

<i>Psiuk V. V., Nikishina I. A.</i> STRENGTHENING AND STRAIGHTENING OF STEEL STRUCTURES MADE OF SQUARE TUBES USING WELDING .....	73
<i>Dolgolaptev V. M.</i> STRENGTH CHARACTERISTICS OF SOLUTIONS BASED ON BLAST FURNACE SLAG OF ALCHEVSK IRON-AND-STEEL WORKS .....	81

**MECHANICAL ENGINEERING AND MACHINE SCIENCE**

<i>Eron'ko S. P., Tkachov M. Yu., Kovaleva O. A.</i> DEVELOPMENT AND EXPERIMENTAL RESEARCHES OF HYDRAULIC FLYING SHEARS FOR CUTTING THIN-WALLED PIPES .....	89
<i>Kharitonenko A. A., Zhiltsov A. P.</i> ANALYZING AND IMPROVEMENT OF METHODS OF MAINTENANCE AND REPAIR OF EQUIPMENT IN METALLURGICAL PRODUCTION .....	98
<i>Ul'yanitskiy V. N., Petrov P. A., Orlov A. A.</i> INFLUENCE OF STATE OF SHEAR CUTTING TOOL ON THE POWER SETTINGS AND QUALITY OF ROLL STOCK CUTTING .....	105
<i>Sporniak V. G., Levchenko E. P.</i> DIRECTIONS OF PERSPECTIVE USE OF TWO-STAGE SMALL-SIZED UNIVERSAL CRUSHER .....	113
<i>Vlasenko D. A., Levchenko E. P.</i> MATHEMATICAL MODELING OF INTERACTION OF HAMMERS WITH MATERIAL IN THE AREA OF FIRE GRATE OF HAMMER CRUSHER .....	119