CONTENTS

MINING SCIENCE

1.	Vlasov S., Timchenko S., Moldavanov Y. Analysis of geological conditions of distribution and features structures of sandstone laying in the roof development of each layers in conditions in the conditions of Western	
	development of coal layers in conditions in the conditions of Western	-
2	Donbass mine	/
2.	Kuchin O., Zgama O., Barichnikov A. Analysis of the determination	
2	accuracy of mineral volumes in dumps using modern application software	
з.	Pavlov Ye., Fesenko E., Novak A. Increasing the stability of mining	
4	products by redistributing the load on the frame support	
4.	Pavlov Ye., Fesenko E., Novak A. Influence of the value of hollows of fixing	
_	space of arch support on stability of mining structure	
5.	Saik P. Methodology for adapting the results of laboratory research on coal	
_	gasification to full-scale conditions	
6.	Fesenko E., Pavlov Ye., Novak A. Influence of main mining-geological and	
	mining-technical parameters on rock destruction processes in the foot wall of	
_	\mathcal{O}^{-1}	60
7.	Fesenko E., Pavlov Ye., Novak A. Optimal bearing profile for mining frame	
~	support	
8.	Khorolskyi A., Frentsel E., Mamaikin O. Development of a model of	
	reproduction of internal reserves of coal mines	77
	MATERIALS SCIENCE AND INDUSTRIAL MACHINE-BUILDING	
9.	Laukhin D., Beketov O., Slupska Y., Babenko E., Rott N., Dytiuk V.	
	Metallographic analysis of potential areas of destruction initiation of the zone of	
	thermal impact of low-carbon steels after laser welding	88
10.	Loskutov O., Ovsyanikov V., Protsiv V., Hryhorenko V. Process of	
	expansion in production technologies of of large diameter pipes for main oil	
	and gas pipelines and metal scientific aspects of its use	
11.	Protsiv V., Kozechko V., Derbaba V., Bochdanov O. Modern polymeric	
		107
12.	Franchuk V., Laukhin D., Žiborov K., Rott N., Fedoriachenko S.	
	Influence of thermophysical processes occurring in the zone of moving	
	contact on the mechanical properties of the surface layer of materials	
	APPLIED MECHANICS, CONSTRUCTION AND CIVIL ENGINEERING	<u>ז</u>

13. Zuievska N., Shaidetska L., Gubashova V., Altalabani M. Optimization of geotechnical building parameters for stabilization of stress-strain state of soil mass______130

OIL AND GAS ENGINEERING AND TECHNOLOGY

14.	Ihnatov A., Koroviaka Ye., V Rastsvietaiev., Yavorska V., Dmytruk O.,	,
	Shypunov S. Main features of drilling operations while constructing curved	
	wells	142

AUTOMATION AND COMPUTER-INTEGRATED TECHNOLOGIES

15. **Bublikov A., Boyko O., Voskoboinyk Ye., Kolysnychenko I.** Automatic control of temperature in the room of the building using the combined regulator______155

ENVIRONMENT PROTECTION TECHNOLOGIES

16.	Krasovskyi S., Kovrov O., Klimkina I. Phytoremediation of coal dumps of
	the Western Donbass170
17.	Maksymova N., Pikarenia D., Katsevych V., Orlinska O., Chushkina I.,
	Makarova T., Hapich H. The influence of dump rock of the granite quarry
	on the quality of soils of adjacent areas179
18.	Fortuna M., Borysovska O. Assessment of water pollution by microplastic 195
19.	Mulina A., Pavlychenko A. Study of the motor transport influence on the
	thermal regime of the territories adjacent to highways207