

CONTENTS

MINING OF MINERAL DEPOSITS

- 1 **Sobko B., Lozhnikov O.** Investigation of the input dump tailings influence on the disturbed lands using indexes..... 8
- 2 **Adamchuk A., Shustov O., Panchenko V., Slyvenko M.** Substantiation of the method of determination the open-cast mine final contours taking into account the transport parameters..... 21
- 3 **Nesvitaylo N.** The definition of rational direction of mining development with increasing open pit depth "Katoka" 33
- 4 **Sotskov V., Dereviahina N.** The rational parameters of backfilling of the worked-out area definition at the selective coal mining..... 43

MINING MACHINERY AND GEOTECHNICAL MECHANICS

- 5 **Boiko V., Han O., Kravets V., Han A.** The influence of ultrasonic radiation on the dynamic characteristics of foamed explosive compositions..... 56
- 6 **Zhuravel O.** Justification of factors influencing the creation and implementation of boring corons..... 66
- 7 **Feofanov A.N.** Pop-up cavities 77
- 8 **Franchuk V., Ziborov K., Fedoriachenko S., Tsonda M.** Determination of electric vehicle parameters for turning while sideways..... 87

MINING AND UNDERGROUND CONSTRUCTION

- 9 **Mineev S., Pymonenko D., Novikov L., Slashchov A.** Some features of transportation and processing of a metano-air mixture on coal mines..... 98
- 10 **Sadovenko I., Puhach A., Dereviahina N., Manukian E.** Development of recommendations on strengthening of bases of foundations considering spatial change of parameters of loess massifs during technogenic filtration 108
- 11 **Tereshchuk R., Chahovets O.** Parameters of anchoring systems for fastening of inclined workings..... 119

ELECTRICAL COMPLEXES AND AUTOMATION SYSTEMS

- 12 **Khomyak T., Malienko A., Fishbach K.** Developing support and decision-making system to select activity of the enterprise..... 132

ECOLOGY AND LABOUR SAFETY

- 13 **Chebryachko S., Deryugin O., Gilpert V.** Improving labour protection management system at forestry enterprises..... 144
- 14 **Shiman L., Ustimenko E., Sobolev V., Kulivar V.** Energy saturated components of solid rocket fuel and their use in explosives..... 156