

## **Surveying instrumental observations of displacement of mine workings contours**

### **Бібліографічний опис:**

Nazarenko V., Brui H., Kuchin O., Mamuzić I. Surveying instrumental observations of displacement of mine workings contours. Metalurgija. 2025. Vol. 64. № 1-2. P. 233-233.

Nazarenko, V., Brui, H., Kuchin, O. & Mamuzić, I. (2025). Surveying instrumental observations of displacement of mine workings contours. Metalurgija, 64, 1-2, 233-233.

### **Видавець:**

Hrvatsko metalurško društvo

### **Анотація:**

Maintenance and accident-free operation of underground mine workings in difficult mining and geological conditions, which are characterized by unstable, watered rocks, is provided by the use of anchor and frame anchor supports. Periodic leveling of the reference points and anchors of the support provides information about displacements in separate sections of mine workings at different time intervals and in different areas. Measurements were made in the pumping drift at a depth of 300 m. Mine length is 2550 m, average inclination angle is 4 °, excavation cross-section  $S=14,6 \text{ m}^2$ . The excavation is secured by rows of anchors with a step of 0,6-0,8 m.

### **Ключові слова:**

mines; mine maintainance; instrumental observations