

POLITECHNIKA ŚLĄSKA
WYDZIAŁ GÓRNICTWA I GEOLOGII



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METODA OCENY JAKOŚCI
WYKONANIA WYROBISKA KORYTARZOWEGO
W PODZIEMNEJ KOPALNI WĘGLA KAMIENNEGO

PRACA DOKTORSKA

Kierujący pracą:

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In the study investigated the quality of roadways and proposed a new method of evaluation the quality. The research was conducted in underground conditions in seven mine roadways different in terms of technology, mining, supporting size, inclination, construction, deep drilling, geological and mining conditions, including climatic conditions and the degree of danger of rock burst.

The study proposes a new method of evaluating the quality of implementation of underground mine roadways using statistical calculations. This tool gives a clear picture of the quality of the implementation of a mine roadway with a detailed visualization quality of every element of support separately.

The results of that inspections allow for quick response and indicate clearly the scope of the necessary correction. The final evaluation of the quality of the mine roadway defines and identifies, with the specific values of these elements-scale, mine roadway deficiencies that do not meet the established requirements.

Undoubted influence of the human factor on the quality of roadways justifies the need and desirability of control. Proposed in this work a new tool for monitoring and evaluating the quality of drill roadways should largely organize and facilitate this process.

A new method for evaluation of the quality of underground mine roadways proposes simple research plans, and uses simple mathematical relationships to determine the quality of the implementation of the excavation, making it a tool that can be successfully applied in practice.

