عنوان مقاله:

(Optimization of Longwall Panel Location with Regards to the Gradient of Coal Seams (TECHNICAL NOTE

نویسنده:

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خلاصه مقاله:

The paper begins by outlining the role and importance of coal as a source of energy and in the steel industry. It briefly describes the longwall method of working together with the conventional machinery used in the method. A mathematical model is then proposed that shows the relationship between the gradient of the coal seam, that of the face and the entries to the panel. Determination of a model that mathematically shows the economically best location for the longwall panel with regards to the seam gradient is the core section of the paper which is accomplished by introducing an objective function and devising its component models. The model is then subjected to sensitivity analysis. The results can assist the mining engineer in determining the most economic location for the longwall panels.

کلمات کلیدی:

Coal, Longwall, Face, Steep Seam Panel, Face Direction

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