

AN ALTERNATIVE APPROACH OF SLICE MINING IN CONJUNCTION WITH STOWING METHOD FOR SOFT EXTRA-THICK COAL SEAMS

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Abstract

The paper discusses alternative approach of multi-slice longwall mining in conjunction with stowing method for 20-30 m thick soft coal seams at the Mae Moh coal field in Thailand. The applicability of the longwall method for those coal seams was investigated by means of numerical method. Numerical modelling was carried out using a three dimensional finite difference code "Flac3D." The ground behaviour, failure characteristics of strata, performance of stowing, and surface subsidence caused by underground mining were evaluated and discussed in this paper based on the results obtained from numerical analyses.

Keywords: Multi-slice longwall mining, stowing method, numerical analyses, Flac3D.

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