

Longwall mine subsidence of farmland in southern Illinois - near-surface fracturing and associated hydrogeological effects

s.n - Agricultural impacts of longwall mine subsidence: the experience in Illinois, USA and Queensland, Australia — University of Illinois Urbana



Description: -

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Notes: 13

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Monitoring the effects of longwall mine

Deformation associated with groundwater-level rise is assumed to be an elastic process and, as such, a linear elastic constitutive model has been applied at this stage; plastic deformation has not been considered. In order to evaluate effective hydraulic conductivities of aquifers and aquitards in shallow coal-bearing rocks of the Allegheny Plateau, an inverse solution modeling approach is proposed. Only about 10 percent of the world's 1,300 potentially active volcanoes have been geologically mapped to assess their past eruptive habits.

Monitoring the effects of longwall mine

A detailed lithologic log in this area was given by Chugh et al. Any effects to the modulus are indistinct. The determinations of these properties are essential in order to predict asymmetrical subsidence profiles and prevent structural and aesthetic damage to engineered structures.

3.6.1 Potential impacts for coal mine developments that cannot be modelled

Members say they would welcome mining if it were done only in room-and-pillar style. Asymmetrical Subsidence Prediction of future subsidence frequently lends itself to simple solutions.

Coupled hydraulic and mechanical model of surface uplift due to mine water rebound: implications for mine water heating and cooling schemes

In that report emphasis is placed on the responsibility for reduction of flood loss that lies with public policy makers who can regulate development in flood plains. Thousands of people headed down to the beach to watch the big waves, proving, once again, that all the wisdom in the world cannot save those who choose to ignore it. Displacements along active faults can be established by combining the historical record with

stratigraphy, geomorphic analyses, and age-determination techniques in the new subdiscipline of paleoseismology.

NIOSH/TIC

Geomorphologists have quantified ways of identifying potential hazard sites that suggest future change. Three case studies were done to enhance the ASPP subsidence prediction model's functionality and a fourth was done to verify the accuracy of the ASPP model for the Rend Lake area of southern Illinois. The estimated parameters needed for the prediction using the above prediction techniques are shown in Table 13.

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