

Stress-induced failures in mine roof

Dept. of the Interior, Bureau of Mines - Breaking and mining

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Report of investigations (United States. Bureau of Mines) -- 8338.
Report of investigations - Bureau of Mines ; 8338 Stress-induced
failures in mine roof
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**Geomechanical evaluation of a coal
mine arched entry**

The top of the model corresponded to the stress boundary. The bottom boundary was fixed in displacement in the vertical direction.

Creep and Creep Failures

At the corner compressive stress is active whereas tensile stress is prevails on the top of the roof.

MSHA

Orange lines indicate the rock bolts and red lines indicate W-shaped steel straps Simulated major principal stress distribution around the 2203 tailgate showing how mining-induced stresses are accumulated at different mining stages. The lower Kittanning coal overlies the Vanport limestone and is typically 9—12 m above the top of the limestone. Numerical model In this study, the FLAC3D 5.

Analysis of roof and pillar failure associated with weak floor at a limestone mine

Laboratory tests on standard coal samples showed that the uniaxial compressive strength UCS of intact coal ranges from 10 to 40 MPa Medhurst and Brown. Slickensides, bedding planes, and localized cutter roof conditions contributed to instability of the slab at the accident site.

A Study of Ground Control Problems in Coal Mines with High Horizontal Stresses

For stainless steels, the microstructures are similar in that the failure is by grain-boundary-sliding and crack formation.

NIOSH/TIC

It was estimated through field methods that the weak floor with the consistency of a stiff soil had a uniaxial compressive strength of about 3 MPa, which put the pillars in a critical state. This analysis starts with known loading conditions determined in an underground coal mine in West Virginia and is extended to other possible underground loading conditions. In spite of the room widths, the roof is naturally stable in many mines.

Fundamentals of modern ground control management in Australian underground coal mines

Li is a senior ground control engineer at Keystone Mining Services, LLC Jennmar Corp.

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