

Stress-induced failures in mine roof

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

Description: -

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Rare books -- Catalogs.

Steel bands (Music) -- Instruction and study.

Chinese studies

Chinese literature

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Microwave measurements

Medical care, Cost of -- United States.

Physicians -- Malpractice -- United States.

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Mining engineering.

Rock mechanics.Stress-induced failures in mine roof

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Colecção Traços da história -- 5

Report of investigations (United States. Bureau of Mines) -- 8338.

Report of investigations - Bureau of Mines ; 8338Stress-induced

failures in mine roof

Notes: Bibliography: p. 16.

This edition was published in 1979



Filesize: 17.34 MB

Tags: #Mining #hazards

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.

NIOSHTIC

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 Jenmar Corp.

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