

# Formulierung eines Gebirgsschlagkriteriums für den Steinkohlenbergbau mit Hilfe eines Finite-Differenzen-Verfahrens

Institut für Bodenmechanik und Felsmechanik der Universität Fridericiana - Rock bursting as a surface instability phenomenon

Description: -

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Osuna (Spain) -- History -- 19th century.

Peninsular War, 1807-1814 -- Campaigns -- Spain -- Osuna.

Peninsular War, 1807-1814 -- Occupied territories -- Spain --

Osuna.

Nets (Mathematics)

Bituminous coal.

Coal mines and mining -- Mathematical models. Formulierung eines Gebirgsschlagkriteriums für den Steinkohlenbergbau mit Hilfe eines Finite-Differenzen-Verfahrens

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Bibliotheca bibliographica Aureliana,

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Universale Cappelli. Storia dei partiti politici,

new ser., v. 8

Encyclopedia of plant physiology ;

Heft 83.

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Felsmechanik der Universität Fridericiana in Karlsruhe ;

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83 Formulierung eines Gebirgsschlagkriteriums für den

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Notes: Bibliography: p. 116-117.

This edition was published in 1979

Tags: #A #surface #instability #detection #apparatus



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characterized using acoustic emission and digital image correlation. Gay NC 1973 Fracture growth around openings in thick-walled cylinders of rock subjected to hydrostatic compression.

## Inelastic Strain and Damage in Surface Instability Tests

Die Beherrschung der Gebirgsdruckauswirkungen im Strebefeld, also in großräumigen Abbauabschnitten, d. Schöpfer MPJ, Childs C, Manzocchi T 2013 Three dimensional failure envelopes and the brittle-ductile transition.

## Insights on surface spalling of rock

Shou K-J 2010 A three-dimensional hybrid boundary element method for non-linear analysis of a weak plane near an underground excavation. Diederichs MS, Kaiser PK, Eberhardt E 2004 Damage initiation and propagation in hard rock during tunneling and the influence of near-face stress rotation.

## A surface instability detection apparatus

Damage evolution and localization observed in numerical simulations were similar to those observed in experiments. Tarokh A, Kao C-S, Fakhimi

## Insights on surface spalling of rock

Observations and analysis of deformations. Spalling near a free surface in laboratory experiments on two sandstones was

A, Labuz JF 2016 Spalling and brittleness in surface instability failure of rock. Martin CD, Christiansson R 2009 Estimating the potential for spalling around a deep nuclear waste repository.

### **Insights on surface spalling of rock**

Huang H, Lecampion B, Detournay EM 2013 Discrete element modeling of tool-rock interaction I: rock cutting. In: Budavari S ed , Rock mechanics in mining practice. Application to geomaterials and concrete.

### **Models of translatory rock bursting in coal**

Cite this article Kao, CS. Vardoulakis I, Papanastasiou PC 1988 Bifurcation analysis of deep boreholes: I surface instabilities.

## Related Books

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