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present a very peculiar behavior. When
slopes... 2. Numerical modeling of
failures in large scale phyllite mine
slopes at QF 2.1. Flexural toppling ...

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propagation in fully grouted rock bolts

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subjected to tensile load. ... Numerical modelling of fully grouted rock bolts loaded in tension is presented by implementing a non-linear bond-slip relationship of bolt-grout interface into a commercial finite difference rock mechanics code. The proposed model shows a ...

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Numerical modelling of failure propagation in fully ...

Numerical Modelling of Damage
Evolution and Failure Behavior of
Continuous Fiber Reinforced Composites
159 In order to obtain solutions for fiber
stress and stress in matrix outside the
yield zones the superposition method
(Beyerlein & Phoenix, 1996; Landis et

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al., 2000) has been further extended in
our previous work (Zhang & Wang,
2009, 2010).

Numerical Modelling of Damage Evolution and Failure ...

Finite-element (FE) analysis makes it
possible to investigate different
parameters and their effect on the

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carrying capacity or failure behavior of a component in an easy and cost-effective way. But to do this, the numerical model needs to reproduce the material behavior as close to reality as possible. This paper presents a numerical model developed to simulate the complex failure behavior of dowel connections in wood loaded perpendicular to grain.

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**Numerical Modeling of the Failure
Behavior of Dowel ...**

A user-defined subroutine for numerical modelling of failure due to creep under compression in carbon fibre reinforced composite materials - NASA/ADS Creep is one of the prominent failures of industrial components particularly under

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continuous loading conditions, elevated temperatures and material diversities etc.

A user-defined subroutine for numerical modelling of ...

The numerical approach allows calculation of creep rupture times, time evolution of stress concentrations as

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well as displacements of individual fibers and detailed examination of staggered arrays of cracks. Hence, this model can be viewed both from a failure analysis perspective as well as fitting in with damage mechanics discussed next.

Failure Model - an overview | ScienceDirect Topics

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It sums up relevant failure modes as well as their causes and explains how numerical modelling can support design processes in different phases of development. As an example, a lifetime modelling technique for aluminum thick bond wires in power modules is described in more detail.

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This paper extends the authors' previous numerical modelling of punching shear failure in slabs without shear reinforcement (Setiawan et al., 2019a,b, 2020) to slabs with shear reinforcement.

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(PDF) Numerical modelling of punching shear failure of RC ...

Cyclic lateral response and failure mechanisms of semi-rigid pile in soft clay: centrifuge tests and numerical modelling. Y. Hong, a B. He, b L.Z. Wang, a Z. Wang, c C.W.W. Ng, d D. Mašín e. a Key Laboratory of Offshore Geotechnics and Material of Zhejiang Province,

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College of Civil Engineering and
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Cyclic lateral response and failure mechanisms of semi ...

Through numerical modelling, the UBC
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sensitivity analysis of paste unconfined
compressive strength (UCS) versus sill

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width. A further comparison has been ...
failure of the sill mat once mining
exposes the mat, whereas
overestimating can result in

Numerical Modeling of Paste Sills in Underhand Cut & Fill ...

Rock has the characteristics of natural
heterogeneity and discontinuity. Its

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failure phenomenon induced by external force involves complex processes, including the microcrack initiation, propagation, coalescence, and the macrocrack formation. In this study, the Weibull random distribution based on the rock microstructure characteristics is introduced into the combined finite-discrete element ...

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increasingly important for lightweight
design in aerospace, wind energy, and
mechanical and civil
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finite element model and a failure
criterion developed based on the
modified Von-Mises theory. Also, using

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these numerical models, the effect of wall length and structural form of the wall (i.e. load bearing walls and reinforced concrete framed walls) on the formation of these cracks was studied. These results

Field survey and numerical modelling of cracking in ...

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adopted to model the woven composite fracture and discrete nonlinear spring elements to represent the stitches effect. A novel macroscopic law adopted from a 1D micromechanical-stitching model, is developed to model the stitches effect along the interface. The numerical simulations of DCB test with the present model, shows a good

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under Mode II fracture in plain concretes
containing siliceous fly-ash additive
using XFEM method. Computational

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