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Micromechanics play a key role in the prediction of the local and overall behavior of masonry with or without accounting for interface behavior and damage in different components. Homogenization techniques are powerful methods that allow the reduction of computational time and cost by considering a unit periodic cell reproducing the overall behavior of the whole or a part of the masonry structure ...

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Numerical results from their models show that through-thickness stitching can greatly improve the fracture toughness in both mode I and mode II delamination. Later, Cox presented his model of mode II delamination with

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through-thickness fibre tow [3].

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In addition to studying periodic microstructures, embedding models and analysis using macro-homogeneous or mixed uniform boundary conditions can be carried out on the basis of FE models. Due to its high flexibility and efficiency, FEA at present is the most widely used numerical tool in continuum micromechanics, allowing, e.g., the handling of viscoelastic, elastoplastic and damage behavior.

## **Micromechanics - Wikipedia**

The objective of numerical modeling was to evaluate significance of different phenomena such as friction between steel fiber and concrete matrix, matrix shrinkage and fiber plasticity in a single fiber pull-out process by taking into consideration experimental findings.

Keywords: pull-out, finite element method, shrinkage, elasto-plastic fiber.



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cochlea, however, ... even though the

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advantage of a numerical model, such as a FE model, is its capacity to model structures with complex geometry. ... cochlear micromechanical models can be validated via comparison with experimental data in terms of amplitude, phase, relative phase variation between 2 ...

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