Adaptive module homogenization algorithm

dad Politecnica deCataluna, 08034 Barcelona, ESPANA SUMMARY Inthis paper some adaptive mesh refinement (AMR) strategies for . nite element analysis of tructural problems are discussed. Two ...

This study aims to develop a simple yet accurate adaptive homogenization approach for modeling the effective elastic properties of concrete for the whole hydration range from early age to hardened state.

This system integrates efficient adaptive feature point homogenization extraction, lightweight deep learning semantic segmentation based on an improved DeepLabv3, and multi-view ...

In this paper COMSOL Multiphysics® is used for setting up an adaptive model for calculation of homogenized material properties of fiber reinforced composite materials.

This paper proposes a micromechanics-based mean-field homogenization scheme, an adaptive incrementally affine method that can predict the effective mechanical behavior of composites

Recently, Kim et al. proposed a novel adaptive affine homogenization method for visco-hyperelastic composites that effective stress can be predicted ...

An adaptive model could be set up for calculation of homogenized values of specific heat, thermal conductivity and coefficient of thermal expansion. Especially the boundary condition have to be ...

An adaptive deep homogenization neural network model has been proposed for the micromechanical analysis of unidirectionally periodic heterogeneous arrays with different microstructures.

In this work, an efficient method to investigate linear elastic fields around defects in heterogeneous structures is proposed.

We present an adaptive physics-informed deep homogenization neural network (DHN) approach to formulate a full-field micromechanics model for elastic and thermoelastic periodic arrays ...

We proposed an adaptive incrementally affine method, a micromechanics-based mean-field homogenization scheme for viscoelastic-viscoplastic particle-reinforced composites, which is ...

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