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Extended finite element method

The extended finite element method (X-FEM) is a numerical method for modeling strong (displacement) as well as weak (strain) discontinuities within a standard finite

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Introduction. The extended finite element method (XFEM) is a numerical method that enables a local enrichment of approximation spaces. The enrichment is realized

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Extended finite element method with simplified

An extended finite element method (XFEM) for the forward model of 3D optical molecular imaging is developed with simplified spherical harmonics approximation (). In

Extended finite element method for crack

Novel techniques for modeling 3D cracks and their evolution in solids are presented. Cracks are modeled in terms of signed distance functions

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The extended finite element method

The Extended Finite Element Method KurtMaute* * Department of Aerospace Engineering Sciences, University of Colorado Boulder, Boulder, USA Abstract.

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Extended finite element method tsinghua

Extended Finite Element Method: Tsinghua University Press Computational Mechanics Series. Zhuo Zhuang, Zhanli Liu, Binbin Cheng, And Jianhui Liao.

Extended finite element method: for fracture

This important textbook provides an introduction to the concepts of the newly developed extended finite element method (XFEM) for fracture analysis of structures, as

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Extended finite element method (book, 2014)

Provides an introduction to the extended finite element method (XFEM), a novel computational method which has been proposed to solve complex crack propagation problems.

Numerical analysis - finite element method vs

In the Extended Finite Element Method (XFEM), additional "enrichment" functions are used to approximate the solution in addition to the polynomial shape functions.

Extended finite element method - wikipedia, the

The extended finite element method (XFEM), is a numerical technique based on the generalized finite element method (GFEM) and the partition of unity method (PUM).

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The extended finite element method (x-fem)

In the extended finite element method (X-FEM), a standard displacement based finite element approximation is enriched by additional (special) functions using the

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Xfem, home

Welcome. Dear visitor, This webpage is all about the extended finite element method (XFEM). We have classified our information into three categories: (1) Information

Xfem-project, overview

Project title: Numerical methods for discontinuities in continuum mechanics: Research field: Extended finite element method (XFEM)

Extended finite element method for cohesive crack

The extended finite element method allows one to model displacement discontinuities which do not conform to interelement surfaces. This method is applied to mod