

IMPLEMENTATION OF XFEM METHOD%0A

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of the finite element method called the eXtended Finite Element Method, or XFEM for short. This method is designed in order to simulate problems where some kind of discontinuity is present in the system's governing equations. Something that is not possible in the standard FE-method. This paper intends to outline the method's theoretical foundation, discuss the merits of the method for [IMPLEMENTATION OF XFEM METHOD - vrijvooruit.be](#)

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The XFEM initially grew out of the Partition of Unity Method (covered in Section 3.2) and was originally applied to 2D linearly elastic fracture in isotropic materials with small deformations [3], [26].

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Naim Hossain, 2Daniel Alves Paladim, 1Frank Vogel, 2Prof. Stephane P.A. Bordas 1 Implementation of different features of XFEM with verifying and validating based on some numerical example. Innovative Numerical Technologies Diffpack . Innovative Numerical Technologies Diffpack Diffpack is a object-oriented software environment with

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1 implementation of extended finite element method using implicit boundary approach by vishal hundraj hotwani a thesis presented to the graduate school

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On the implementation of XFEM for interface problems 3 in two open subdomains 1 and 2 by a line $\gamma = \Gamma \cup \Gamma(2)$, called interface. We consider three cases of interface problem with discontinuity on γ .

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On the implementation of the eXtended Finite Element

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On the implementation of the eXtended Finite Element Method (XFEM) for interface problems Thomas Carraro and Sven Wetterauer y Institute for Applied Mathematics, Heidelberg University July 16, 2015 Abstract The eXtended Finite Element Method (XFEM) is used to solve interface problems with an unfitted mesh. We present an implementation of the XFEM in the FEM-library deal.II. The main parts of

On the implementation of the eXtended Finite Element

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The eXtended Finite Element Method (XFEM) is used to solve interface problems with an unfitted mesh. We present an implementation of the XFEM in the FEM-library deal.II. The main parts of the implementation are (i) the appropriate quadrature rule; (ii) the

Extended finite element method - Wikipedia

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). It extends the classical finite element method (FEM) approach by enriching the solution space for solutions to differential equations with discontinuous functions.

Homogenization of random heterogeneous media with

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The paper deals with the homogenization of random heterogeneous media with arbitrarily shaped inclusions simulated with the extended finite element method (XFEM) coupled with Monte Carlo

Full thermo-mechanical coupling using eXtended finite

...

This work aims to present a complete full coupling eXtended finite element formulation of the thermo-mechanical problem of cracked bodies. The basic concept of the extended finite element method

EP2672409A2 - Hydraulic fracture simulation with an

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The XFEM process alleviates the shortcomings associated with meshing crack surfaces. The presence of discontinuities is ensured by the special enriched functions in conjunction with additional degrees of freedom. However, the finite element framework and its properties such as sparsity and symmetry are retained.