

## IMPLEMENTATION OF XFEM METHOD%0A

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### **XFEM Analysis and Implementation Solid Mechanics**

of the nite 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  
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### **IMPLEMENTATION OF EXTENDED FINITE ELEMENT METHOD USING**

represented by a mesh element edges have to align with crack. XFEM is a mesh independent method and hence it allows crack to pass through the elements. IBFEM is a mesh independent method that uses a background mesh instead of a conforming mesh that represents the geometry of the object. A scheme has been discussed to incorporate XFEM in IBFEM in order to obtain a truly mesh independent approach.

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### **IMPLEMENTATION OF THE EXTENDED FINITE ELEMENT METHOD XFEM**

IMPLEMENTATION OF THE EXTENDED FINITE ELEMENT METHOD (XFEM) IN THE ABAQUS SOFTWARE PACKAGE A Thesis Presented to The Academic Faculty By Michael James McNary  
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### **Extended finite element method Wikipedia**

The extended finite element method (XFEM) was developed in 1999 by Ted Belytschko and collaborators, to help alleviate shortcomings of the finite element method and has been used to model the propagation of various discontinuities: strong and weak (material interfaces). The idea behind XFEM is to retain most advantages of meshfree methods while alleviating their negative sides.

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### **Introduction to the Extended Finite Element Method**

The Extended Finite Element Method (XFEM) is a numerical method, based on the Finite Element Method (FEM), that is especially designed for treating discontinuities.

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### **Introduction to eXtended Finite Element XFEM Method**

Introduction: The extended finite element method (XFEM), also known as generalized finite element method (GFEM) or partition of unity method (PUM) is a numerical technique that extends the classical finite element method (FEM) approach by extending the solution space for solutions to differential

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Implementation of a XFEM toolbox in Diffpack 1Md Naim Hossain, 2Daniel Alves Paladim, 1Frank Vogel , 2Prof. Stephane P.A. Bordas 1 Implementation of differenet 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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**An Abaqus implementation of the extended nite element method**

An Abaqus implementation of the extended nite element method E. Ginera, , N. Sukumarb, J. E.  
Taranc ona, F. J. Fuenmayora aDepartamento de Ingenier a Meca nica y de Materiales  
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**An Abaqus implementation of the extended finite element**

In what follows, a brief review on the fundamentals of the extended finite element method is  
presented. Then, the kernel of the Abaqus implementation is described in Section 3, including remarks  
on the extension to non-linear contact problems.

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**On the implementation of the eXtended Finite Element**

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  
<http://tbowl.co/On-the-implementation-of-the-eXtended-Finite-Element--.pdf>

**Extended Finite Element Methods XFEM News IGPM**

Lecture (summer semester 2015): Extended Finite Element Methods (XFEM) Implementation,  
Analysis and Application of XFEM LECTURER: CHRISTOPH LEHRENFELD (CHRISTOPH.  
<http://tbowl.co/Extended-Finite-Element-Methods--XFEM--News-IGPM.pdf>

**Abaqus Implementation of Extended Finite Element Method**

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