

## IMPLEMENTATION OF XFEM METHOD%0A

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Also, Giner 4 implemented XFEM in Abaqus through the use of user element subroutine and custom pre-processing tools.

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Duffot et al.[8]proposed a meshless method with enriched weight functions for 3-D crack modeling. Shi et al. [9] proposed an implementation of 3-D X-FEM technique in ABAQUS.

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Although XFEM presents clear advantages for the end-user, especially at the modeling level, its implementation in a commercial code is not so easy. First it requires the development of new elements and the handling of non-familiar notions, such as the level-sets and the enriched functions supported by additional degrees of freedom.

[Implementation of a XFEM toolbox in Diffpack - Uni](#)

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[Introduction to eXtended Finite Element \(XFEM\)](#) The extended finite element method was developed to ease In this original implementation.

[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).

### Implementation of 2D XFEM in VAST - Publications

Further development of 2D XFEM in VAST Lei Jiang and Merv Norwood Martec Limited Prepared By: Martec Limited 400-1800 Brunswick Street Halifax, Nova Scotia  
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