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# Extended Finite Element Method Soheil Mohammadi

**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. **introduction to extended finite element (xfem) method** - 1. 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 equations with discontinuous functions. **crack modelling with the extended finite element method** - a new concept emerges, known as the extended finite element method, xfem, where the geometric discontinuities and singularities, are introduced numerically with the addition of new terms to the classical shape functions. the finite element formulation remains the same, the crack representation is easier, with an approximate solution more precise. **extended finite element method x-fem - emsu** - remeshing finite element method. • adding discontinuous enrichment function. • this method allows the crack to be arbitrarily aligned within the mesh. umoes et al. (1999) and dolbow (1999) • an improvement of a new technique for modelling cracks in the finite element framework is presented. • extended finite element method (xfem). **an abaqus implementation of the extended finite element method** - an abaqus implementation of the extended finite element method e. gínera,\*, n. sukumarb, j. e. tarancóna, f. j. fuenmayora departamento de ingeniería mecánica y de materiales universidad politécnica de valencia, camino de vera, 46022 valencia, spain. **the extended finite element method - code\_aster** - finite element method (fem) crack is explicitly meshed a long time (human intervention) is needed to mesh complex structures re-meshing is required if changing the crack geometry (parametric study) or position (propagation) extended finite element method (x-fem) simple mesh (does not respect the crack geometry) unique mesh for entire ... **extended finite element modeling: basic review and programming** - extended finite element method is often realized by the level-set method. the method of level set is a numerical design of osher [8] for interfaces movement modeling. the method is believed to represent an interface by the ... extended finite element modeling: basic review and programming ... **reanalysis of the extended finite element method for crack ...** - the extended finite element method (xfem) along with the level set method can be used to alleviate many of the inconveniences of using the finite element method (fem) to model the evolution of a crack.

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