

Extended Finite Element Method Damage Analysis of Carbon Fiber Reinforced Composites and Crack Propagation in Mixed-Mode Using Multiscale Method and Implementation of the Method Using ABAQUS

A. R.F Swati, B. W.L.Hua, C. H.Elahi and D. A.A Khan

Abstract—there are numerous numerical studies of particle interface debonding based on the cohesive zone models. In order to validate the integrity of aerospace structures to fatigue damage the study of existing cracks must be studied closely. By applying multiscale method to fiber reinforced composites to study the multicrock behavior and fracture mechanics by using the cohesive zone modelling in ABAQUS with all the necessary parameters. Getting started with a single crack response followed by delamination and then introduced the study for two cracks to validate the results by simulations and experimentations as the same time. Multiscale modelling of CFRCCs executed as a strong and reliable tool for the study of crack propagation further simulating the structural model in different possible conditions. The structure may pertain to any assembly or part depending upon boundary conditions, loading and other parameters. “Carbon fiber reinforced plastics are mostly used in laminates, which consist of several very thin layers piled over each other. The study of these layers is composed of either unidirectional fibers or textile reinforcements which are inserted in an epoxy resin”. This 3D material model is incorporated into a solid-shell finite element. A promising strategy to increase the tensile failure strain of carbon fibre-reinforced composites is to hybridise carbon fibres with other, higher-elongation fibres. The procedure of applying cohesive elements in ABAQUS software’s subroutines to model 3D complex crack propagation in different conditions and states.

Index Terms—CFRCCs, eXtended FEM, Finite Element Methods, Homogenization

I. INTRODUCTION

The Extended Finite Element Method (X-FEM) is a numerical technique based on the Finite Element Method (FEM) which is specifically designed for treating discontinuities. Discontinuities are classified as strong and weak on the basis of their intensity and sharpness values. Strong discontinuities are observed in the solution variable. The displacements are the solution variable in structures, strong discontinuities are displacements edges like cracks and holes. Discontinuities in the variable of solution are mostly treated as weak category [1] [2]

A. Extended FEM application to the problem

The Extended Finite Element Method (XFEM) is a versatile tool for the analysis of problems which involves discontinuities, singularities, localized deformations and complex geometries [3][4]. These methods can easily form the solution simplified for many complex situations in material modelling like the propagation of cracks, the evolution of dislocations, the modelling of grain boundaries and the evolution of phase boundaries. By using this method completely independent morphology of these entities and the finite element mesh is independent. 3D crack is shown in figure 1, crack positioning is free of mesh which permits for the different models of the cracks because as a crack propagates and increases any dimension then remeshing is not necessary and not needed [5][6][7]. Micromodel of in figure 2 illustrates the mesh for the XFEM model (Fig. 2a) as a structured mesh which is completely independent of the location of the grain boundaries. Keeping inview, the mesh for a standard FEM model in Fig. 2b, the element edges must conform to the grain boundaries and nodes with same contents must be brought into the model. This depicts the understanding of grain boundaries morphology for 3D modelling of complex shapes and structures.

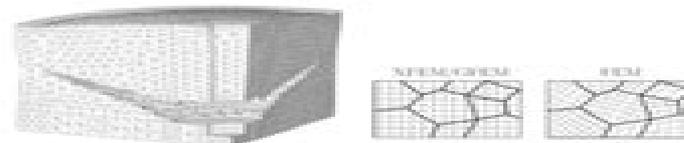


Figure 1: 3D XFEM crack model for 200X magnification

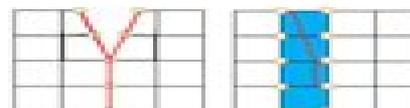


Figure 2: Discretization for XFEM (a) and FEM (b)

The progress of extended Finite Element Method was an extension of the wide research in meshfree methods, [8], [1]. A number of the techniques that are used in extended FEM are directly related to techniques previously developed in meshfree methods. Therefore, we will also point out the relevant literature in meshfree methods. Some prior research

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