



Generalized finite element methods for three-dimensional structural mechanics problems

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Abstract

The present paper summarizes the generalized finite element method formulation and demonstrates some of its advantages over traditional finite element methods to solve complex, three-dimensional (3D) structural mechanics problems. The structure of the stiffness matrix in the GFEM is compared to the corresponding FEM matrix. The performance of the GFEM and FEM in the solution of a 3D elasticity problem is also compared. The construction of p -orthotropic approximations on tetrahedral meshes and the use of a-priori knowledge about the solution of elasticity equations in three-dimensions are also presented. © 2000 Elsevier Science Ltd. All rights reserved.

1. Introduction

The analysis of complex three-dimensional (3D) structural components has become a common task in recent years in several manufacturing industries. However, the analysis of this class of problems using traditional finite element methods still poses several difficulties. It is a common practice to use automatic tetrahedral mesh generators to discretize complex 3D structural components. This type of mesh generators can handle very complex geometries with a minimum of human intervention (as compared to, e.g., the manual generation of a mesh of hexahedral elements). The main drawbacks of any automatic mesh generators are:

1. The need of an excessive number of elements in order to keep the aspect ratios of the finite elements

within reasonable bounds. This is specially true when the component has transition zones from bulky to slender parts.

2. Polynomial approximations, as used in traditional finite element methods, require the use of a large number of elements in order to capture stress concentrations and singularities at corners and edges of the domain. Meshes that are insufficiently refined at these regions are often used in order to keep the number of degrees of freedom (dof) below a reasonable level or simply because the available mesh generators can not create an appropriate mesh where needed without creating an excessive number of elements everywhere. This practice may lead to results of poor quality even at points in the domain distant from the singularities, due to numerical pollution.
3. Another drawback of automatic mesh generators, especially when tetrahedral elements are used, is that they preclude the use of p anisotropic approximations, that is, approximations that have different polynomial orders associated with each direction. Problems where boundary layers occur, such as in

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