

Advanced Wavelet-Based Multilevel Discrete-Continual Finite Element Method for Three-Dimensional Local Structural Analysis

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Abstract-This paper is devoted to advanced wavelet-based discrete-continual finite element method of local structural analysis. Structures with regular (in particular, constant or piecewise constant) physical and geometrical parameters along so-called "basic" direction are under consideration. High-accuracy solution of the corresponding problems at all points of the model is not required normally, it is necessary to find only the most accurate solution in some pre-known local domains. Wavelet analysis is a powerful and effective tool for corresponding researches. Initial continual and discrete-continual formulations of multipoint boundary problem of three-dimensional structural analysis are presented. The last formulation is transformed to corresponding localized one by using the discrete Haar wavelet basis and finally, with the use of averaging and reduction algorithms, the localized and reduced governing equations are obtained. Special algorithm of localization with respect to each degree of freedom is presented.

Keywords-*advanced wavelet-based discrete-continual finite element method; local structural analysis; multipoint boundary problem; three-dimensional problem; operational formulation; discrete-continual formulation; averaging, reduction; Haar basis; localization with respect to each degree of freedom*

I. INTRODUCTION

Research and development of correct mathematical models and methods of structural mechanics are the most important aspects of ensuring safety of buildings and complexes. The analysis and design of structures normally require accurate computer-intensive calculations using numerical (discrete) methods. The field of application of discrete-continual finite element method (DCFEM) [1], that is now becoming available for computer realization, comprises structures with regular (in particular, constant or piecewise constant) physical and geometrical parameters in some dimension (so-called "basic" direction (dimension)). Considering problems remain continual along "basic" direction while along other directions discrete-continual methods presuppose finite element approximation. Solution of corresponding resultant multipoint boundary

problems for systems of ordinary differential equations with piecewise constant coefficients and immense number of unknowns is the most time-consuming stage of the computing, especially if we take into account the limitation in performance of personal computers, contemporary software and necessity to obtain correct semi analytical solution in a reasonable time. However, high-accuracy solution at all points of the model is not required normally, it is necessary to find only the most accurate solution in some pre-known domains. Generally the choice of these domains is a priori data with respect to the structure being modelled. Designers usually choose domains with the so-called edge effect (with the risk of significant stresses that could potentially lead to the destruction of structures, etc.) and regions which are subject to specific operational requirements. It is obvious that the stress-strain state in such domains is of paramount importance. Specified factors along with the obvious needs of the designer or researcher to reduce computational costs by application of DCFEM cause considerable urgency of constructing of special algorithms for obtaining local solutions (in some domains known in advance) of boundary problems. Wavelet analysis provides effective and popular tool for such researches [5]. Solution of the considering problem within multilevel wavelet analysis is represented as a composition of local and global components [2, 3, 7].

II. OPERATIONAL FORMULATION

Let X_1 be direction along which physical and geometrical parameters of three-dimensional structure are piecewise constant ("basic" direction). It is necessary to note that these parameters can be changed arbitrarily along X_1 and X_2 . Operational formulation of corresponding resultant multipoint boundary problem of three-dimensional theory of elasticity at extended domain [7], embedding considering structure, within DCFEM has the form:

Discrete And Continuous Methods For Threedimensional Image Analysis

Donald G. Bailey



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Discrete and Continuous Methods for Three-dimensional Image Analysis James Copeland Mullikin, 1993

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speed methods of the material 3D printing aimed to increase the productivity and operating volume of the 3D printing machines requires new original decisions It is necessary to study the 3D printing applicability for manufacturing of the materials with multilevel hierarchical functionality on nano micro and meso scales that can find applications for medical aerospace and or automotive industries Some of the above mentioned problems and new trends are considered in this book

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