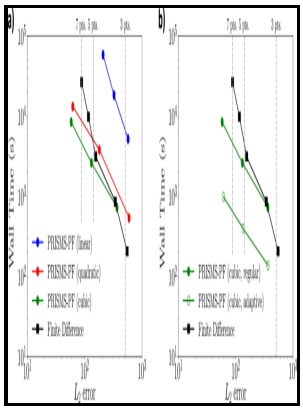
Adaptive finite and boundary element methods

Computational Mechanics Publications - [PDF] Adaptive Least



Description: -
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Philosophy, Jewish -- Collected works.
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Boundary element methods.
Finite element method.Adaptive finite and boundary element methods
-
International series on computational engineering (Unnumbered)
International series on computational engineeringAdaptive finite and boundary element methods
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1 UNIFIED MULTILEVEL ADAPTIVE FINITE ELEMENT METHODS FOR

We indicate by Ω 1 a bounded domain filled by a possibly heterogeneous material and posed on a slot Γ slot on which are applied the sources producing the radiated wave u. For this mode, we effectively need to solve a free-space Poisson equation in two dimensions. The axisymmetric geometry is simplified from the three-dimensional 3D to the two-dimensional 2D by expanding boundary conditions into the summation of Fourier series.

An Adaptive Finite Element DtN Method for the Open Cavity Scattering Problems

Computer Methods in Applied Mechanics and Engineering, 189, 449-462. The physical properties thermal conductivity, thermal diffusion coefficient, specific heat capacity and thermal property and mechanical properties tensile strength, elongation at break and hardness of Azo PU1 or Azo PU2 thin films were measured.

An Adaptive Finite Element DtN Method for the Open Cavity Scattering Problems

We prove global upper and local lower error estimates in the energy norm, with constants which only depend on the shape-regularity of the mesh and the polynomial degree of the finite element approximating space. The usefulness of the method was illustrated by these application results. A posteriori error estimators for linear elasticity, based on the solution of auxiliary local problems, and using different boundary conditions, have been developed only in recent works see, e.

1 UNIFIED MULTILEVEL ADAPTIVE FINITE ELEMENT METHODS FOR

Finite elements are employed in the potential energy subregion.

1 UNIFIED MULTILEVEL ADAPTIVE FINITE ELEMENT METHODS FOR

An a posteriori error estimate based adaptive finite element DtN method is proposed. In this paper, we show how to extend the triply periodic Spectral Ewald method to the singly periodic case, such that the cost of computing the singly periodic potential is only marginally larger than the cost of computing the potential for the corresponding triply periodic system. We propose to localize this surface only around the heterogenous

region, which will generates a relatively small bounded domain dealt with by a FEM, and suitably coupled with a BEM expressing the solution on the impenetrable surface.

An adaptive polytree approach to the scaled boundary boundary finite element method

The SDFEM yields the following discrete problem obtained: Find such that 2. This scheme is based on the Streamline Diffusion Finite element method combined with a Neumann-type error estimator.

CiteSeerX — Search Results — Adaptive finite element methods for differential equations.

Partial differential equations provide mathematical models of many important problems in the physical sciences and engineering.

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