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Finite And Boundary Element Tearing

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Finite and Boundary Element Tearing and Interconnecting ...

Finite and Boundary Element Tearing and Interconnecting Solvers for Multiscale Problems. Tearing and interconnecting methods,

such as FETI, FETI-DP, BETI, etc., are among the most successful domain decomposition solvers for partial differential equations. The purpose of this book is to give a detailed and self-contained presentation of these methods, including the corresponding algorithms as well as a rigorous convergence theory.

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Boundary and Finite Element Tearing and Interconnecting Methods 3 We state and prove our main result on the total complexity of our solver Section 4 contains the results of our numerical experiments 2 Symmetric BEM-FEM Coupling 21 Skeleton Variational Formulation Let □ □ Rd (d = 2,3) be a bounded domain with a Lipschitz ...

[Books] Finite And Boundary Element Tearing And ...

Finite element tearing and interconnecting (FETI) meth-ods and boundary element tearing and interconnecting (BETI) meth-ods are special iterative substructuring methods with Lagrange mul-tipliers. For elliptic boundary value problems on bounded domains, the condition number of these methods can be rigorously bounded by C

((1+log(H/h))2, where H is the subdomain diameter and h the mesh size.

CiteSeerX — Coupled finite and boundary element tearing ...
Summary. We have recently introduced the Boundary Element Tearing and In-terconnecting (BETI) methods as boundary element counterparts of the well-established Finite Element Tearing and Interconnecting (FETI) methods. Since Fi-nite Element Methods (FEM) and Boundary Element Methods (BEM) have certain

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Coupled Boundary and Finite Element Tearing and ...
this task. In this thesis the Finite Element Tearing and Interconnect

(FETI) method is used to split computation across computational units. This is the main theory investigated by this text and will be considered in Chapter 3. Total-/scattered field decompositions are sometimes used in a problem domain. There

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Finite and Boundary Element Tearing and Interconnecting ...

The boundary element method (BEM) is a numerical computational method of solving linear partial differential equations which have been formulated as integral equations (i.e. in boundary integral form). including fluid mechanics, acoustics, electromagnetics (Method of Moments), fracture mechanics, and contact mechanics.

Boundary element method - Wikipedia

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