

# Preconditioned iterative methods for the boundary element solution of a hypersingular integral equation.

University of Salford - CiteSeerX — Search Results — On a Class of Preconditioning Methods for Dense Linear Systems from Boundary Elements.



Description: -

- Preconditioned iterative methods for the boundary element solution of a hypersingular integral equation.
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Notes: PhD thesis, Mathematics and Computer Science.

This edition was published in -



Filesize: 6.88 MB

Tags: #Additive #Schwarz #Methods #for #the #hp #Version #of #the #Boundary #Element #Method #in #R3

## Hybrid preconditioned algorithms for boundary hypersingular integral equations

However, our findings showed that an appropriate scatter window combination can reduce this difference between TEW and ESSE methods.

## CiteSeerX — Domain Decomposition Methods For Boundary Integral Equations Of The First Kind: Numerical Results

Yan, A fast numerical solution for a second kind boundary integral equation with algorithmic kernel, SIAM J. Magnetoencephalography MEG is a noninvasive technique for studying neuronal activity in the living human brain.

## Fast multipole accelerated boundary integral equation methods

A bounded vortex can be used to aerodynamically transport particles from a surface, allowing cleaning of a dust-covered surface without making physical contact with the surface.

## Efficient block diagonal preconditioner for boundary element method in acoustics

The fast multipole BEM employs the improved Burton—Miller formulation, and successfully overcomes the non-uniqueness difficulty associated with the conventional BEM for exterior acoustic problems. For the exterior acoustic problems it is necessary to introduce a condition at infinity.

## Additive Schwarz Methods for the hp Version of the Boundary Element Method in $\mathbb{R}^3$

Rivlin, Chebyshev Polynomials from Approximation Theory to Algebra and Number Theory, Wiley, New York, 1990. This algorithm has several important improvements.

## CiteSeerX — Multilevel Methods for the H

The preconditioner is derived by first making the nodal and side basis functions locally orthogonal to the element internal bases, and then by decoupling the nodal and side bases from the internal bases.

#### **CiteSeerX — Domain Decomposition Methods For Boundary Integral Equations Of The First Kind: Numerical Results**

Ptra, Projection and iterated projection methods for nonlinear integral equation, SIAM J.

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