

1 Unified Multilevel Adaptive Finite Element Methods For

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1 Unified Multilevel Adaptive Finite

1 UNIFIED MULTILEVEL ADAPTIVE FINITE ELEMENT METHODS FOR ELLIPTIC PROBLEMS BY WILLIAM F. MITCHELL B.S., Clarkson College of Technology, 1977 M.S., Clarkson College of Technology, 1979 M.S., Purdue University, 1983 THESIS Submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy in Computer Science in the Graduate College of the University of Illinois at Urbana-Champaign, 1988 Urbana, Illinois

1 UNIFIED MULTILEVEL ADAPTIVE FINITE ELEMENT METHODS FOR ...

It is our goal to develop a more unified approach to the

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combined process of adaptive refinement and multigrid solution which can be used with high order finite elements. The basic step of the refinement process is the bisection of a pair of triangles, which corresponds to the addition of one or more basis functions to the approximation space.

IDEALS @ Illinois: Unified Multilevel Adaptive Finite ...

@article{osti_7230871, title = {Unified multilevel adaptive finite element methods for elliptic problems}, author = {Mitchell, W F}, abstractNote = {Many elliptic partial differential equations can be solved numerically with near optimal efficiency through the uses of adaptive refinement and multigrid solution techniques. It is our goal to ...

Unified multilevel adaptive finite element methods for ...

You can learn more about the methods used in MGGHAT by reading ``Unified multilevel adaptive finite element methods for elliptic problems'' (pdf, 260K). The MGGHAT software is available as a single gzipped tar file (300K), or as three parts (source, documentation and graphics examples) from netlib.

MGGHAT - NIST

BibTeX @MISC{Mitchell88unifiedmultilevel, author = {William F. Mitchell}, title = {UNIFIED MULTILEVEL ADAPTIVE FINITE ELEMENT METHODS FOR ELLIPTIC PROBLEMS }, year = {1988}}

CiteSeerX — UNIFIED MULTILEVEL ADAPTIVE FINITE ELEMENT ...

In this paper, an adaptive finite element method is proposed for solving Kohn–Sham equation with the multilevel correction technique. In the method, the Kohn–Sham equation is solved on a fixed and appropriately coarse mesh with the finite element method in which the finite element space is kept improving by solving the derived boundary value problems on a series of adaptively and ...

A multilevel correction adaptive finite element method for ...

This paper presents a more unified approach to the combined process of adaptive refinement and multigrid solution which can

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be used with high order finite elements. Refinement is achieved by the bisection of pairs of triangles, corresponding to the addition of one or more basis functions to the approximation space.

Optimal Multilevel Iterative Methods for Adaptive Grids

...

Multilevel Techniques for Compression and Reduction of Scientific Data---The Multivariate Case. Full Record; Other Related Research; Abstract. We develop a technique for multigrid adaptive reduction of data (MGARD). Special attention is given to the case of tensor product grids, where our approach permits the use of nonuniformly spaced grids in ...

Multilevel Techniques for Compression and Reduction of

...

Brandt, A. (1973), Multi-level adaptive technique (MLAT) for fast numerical solution to boundary value problems. Proc. Third International Conference on Numerical Methods in Fluid Mechanics, Vol. 18 of Lecture Notes in Physics, Springer, pp. 82 - 89.

Algebraic multigrid methods * | Acta Numerica | Cambridge Core

For example, one use of wavelets is to reformulate the finite element approach in terms of a multilevel method. [17] Adaptive multigrid exhibits adaptive mesh refinement , that is, it adjusts the grid as the computation proceeds, in a manner dependent upon the computation itself. [18]

Multigrid method - Wikipedia

The PHAML project is to develop new methods and software for the efficient solution of 2D elliptic partial differential equations (PDEs) on distributed memory parallel computers and multicore computers using adaptive mesh refinement and multigrid solution techniques. PHAML version 1.20.0 can be downloaded as the file `phaml-1.20.0.tar.gz` (10.8 MB) for Unix systems and MS Windows with Cygwin.

The Parallel Hierarchical Adaptive MultiLevel Project ...

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Multi-level adaptive finite element analysis. - Page 1 - CORE

The aim of this work is to compare two existing multilevel computational approaches coming from two different families of multiscale methods in a nonlinear solid mechanics framework. A locally adaptive multigrid method and a numerical homogenization technique are considered.

Analytical Comparison of Two Multiscale Coupling Methods ...

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UNIFIED MULTILEVEL ADAPTIVE FINITE ELEMENT METHODS FOR ...

Developments are done in a unified adaptive dynamic multilevel (ADM) framework. Both methods are employed to simulate multiphase flow in highly heterogeneous porous media. Fully implicit coupling with finite volume scheme is used at all spatial scales.

A benchmark study of the multiscale and homogenization ...

CiteSeerX - Document Details (Isaac Council, Lee Giles, Pradeep Teregowda): Abstract. We present a model-based method for the multi-level shape, pose estimation and abstraction of an object's surface from range data. The surface shape is estimated based on the parameters of a superquadric that is subjected to global deformations (tapering and bending) and a varying number of levels of local ...

CiteSeerX — Multi-level shape representation using global ...

In this paper, we present a unified analysis of both convergence and optimality of adaptive mixed finite element methods for a

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class of problems when the finite element spaces and corresponding a p...

A Unified Analysis of Quasi-Optimal Convergence for ...

Mitchell, W.F.: Unified Multilevel Adaptive Finite Element Methods for Elliptic Problems. Report No. UIUCDCS-R-88-1436, Department of Computer Science, University of Illinois (1988).
Google Scholar [10] Ong, M. E. G.: Hierarchical Basis Preconditioners for Second Order Elliptic Problems in Three Dimensions. Technical Report No. 89-3, Department ...

Two Fast Solvers Based on the Multi-Level Splitting of ...

We prove the reliability of the estimator within a unified framework for adaptive Finite element methods. The performance of the adaptive symmetric IPDG-H method is documented by numerical results for representative test examples.

Tuning-Free Adaptive Multilevel Discontinuous Galerkin

...

In this paper, a multilevel adaptive finite element algorithm is developed for BLT reconstruction. In this algorithm, the mesh is adaptively refined according to a posteriori error estimation, which helps not only to improve localization and quantification of sources but also to enhance the robustness and efficiency of reconstruction.

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