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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

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1988 Urbana, Illinois

**1 UNIFIED
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It is our goal to develop
a more unified
approach to the
combined process of
adaptive refinement
and multigrid solution

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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 ...

You can learn more about the methods

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used in MGGHAT by reading ``Unified 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

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[http ...](http://...)

UNIFIED MULTILEVEL ADAPTIVE FINITE ELEMENT METHODS FOR ...

1. Introduction. The recently proposed multi-level hp-refinement is a novel approach for

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performing adaptive mesh refinement in the context of high-order finite elements.

Contrary to conventional hp-adaptive methods, which perform spatial refinement by the replacement of existing elements with a subset of smaller elements , , , this method employs hierarchical, high-order overlay meshes to ...

Parallelization of the

Where To Download 1 Unified Multilevel **multi-level hp- adaptive finite cell**

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Many elliptic partial differential equations can be solved numerically with near optimal efficiency through the uses of adaptive refinement and multigrid solution techniques. This paper presents a more unified approach to the combined process of adaptive refinement and multigrid solution

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which can be used with
high order finite
elements.

Optimal Multilevel Iterative Methods for Adaptive Grids ...

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.

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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

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adjusts the grid as the computation proceeds, in a manner dependent upon the computation itself. [18]

Multigrid method - Wikipedia

One aspect of adaptive mesh refinement in the finite element method for solving partial differential equations is the method by which elements are refined. In the early 1980's the dominant method for

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refining triangles was the red-green algorithm of Bank and Sherman. The red refinements are the desired refinements, but will result in an incompatible grid when used alone.

30 years of newest vertex bisection: AIP Conference ...

OSTI.GOV Technical
Report: Unified
multilevel adaptive
finite element methods

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for elliptic problems
Title: Unified multilevel
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In this paper, we
present a unified
analysis of both
convergence and
optimality of adaptive
mixed finite element
methods for a class of

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

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

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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

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can be solved

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...

Results for the three-
level and single-level
approach are

summarised in Fig.

4. For adaptive spatial
meshes, we observe
that the errors of the
expected values $E[\psi^2]$
(ML) are very close to
the prescribed

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tolerances. This is not always the case for the values $E[\psi^2(SL)]$ computed by the single-level approach. The three-level approach performs reliably and outperforms the single-level version ...

A fully adaptive multilevel stochastic collocation ...

For certain pairs, we also prove new theoretical estimates for the associated CBS

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constants using only linear algebra arguments. Second, we design a novel adaptive multilevel SGFEM algorithm, where each solution mode is associated with a potentially different finite element space.

Adaptive & Multilevel Stochastic Galerkin Finite Element ...

In this project, we

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carried out many studies on adaptive and parallel multilevel methods for numerical modeling for various applications, including Magnetohydrodynamic s (MHD) and complex fluids. We have made significant efforts and advances in adaptive multilevel methods of the multiphysics problems: multigrid methods, adaptive finite element ...

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**Scalable Adaptive
Multilevel Solvers
for Multiphysics ...**

Mitchell W.F., Unified
multilevel adaptive
finite element methods
for elliptic problems,
internal report no.
UIUCDCS-R-88-1436,
Department of
computer science,
University of Illinois at
Urbana-Champaign,
Urbana, Illinois(1988)
Google Scholar

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**patterns of
hierarchical finite**

element ...

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

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Report No. 89-3,
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