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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 ...

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Theory of adaptive finite element methods: An introduction ...

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Key words: Local multilevel methods, Adaptive nonconforming PI finite element methods, Convergence analysis, Optimality. 1. Introduction Multigrid methods and other multilevel

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preconditioning methods for nonconforming finite elements have been studied by many researchers (cf. [4-7,16,22-25,27,30-32,36,38]). The BPX

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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. It is our goal to develop a more unified approach to the combined process of adaptive refinement and multigrid solution which can be used with high order finite elements ...

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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 ...

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Projects PHAML PHAML (Parallel Hierarchical Adaptive MultiLevel) is a Fortran 90 parallel (MPI message passing and/or OpenMP shared memory) implementation of a finite element partial differential equation solver with adaptive mesh refinement and multigrid solver.

Dr. William F. Mitchell - NIST

ELSEVIER Applied Numerical Mathematics 23 (1997) 97-117 MATHEMATICS Multilevel iterative solution and adaptive mesh refinement for mixed finite element discretizations Ronald H.W. Hoppe *, Barbara Wohlmuth 1 Math.-Nat. Fakultät der Universität Augsburg, Universitätsstrasse 14, 86 159 Augsburg, Germany Received 1 December 1995; revised 19 June 1996 Abstract We consider the numerical solution ...

Multilevel iterative solution and adaptive mesh refinement ...

ADAPTIVE MULTILEVEL CORRECTION METHOD FOR FINITE ELEMENT APPROXIMATIONS OF ELLIPTIC OPTIMAL CONTROL PROBLEMS WEI GONG , HEHU XIEy, AND NINGNING YANz Abstract: In this paper we propose an adaptive multilevel correction scheme to solve optimal control problems discretized with finite element method. Different from the clas-

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