



## COMPUTING WITH HP ADAPTIVE FINITE ELEMENTS VOLUME 1 ONE AND TWO DIMENSIONAL ELLIPTIC AND MAXWELL PROBLEMS ONE ANOTHERING VOL 2

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### **hp-FEM - Wikipedia**

Computing with Hp-Adaptive Finite Elements, Vol. 1: One and Two Dimensional Elliptic and Maxwell Problems The book is very theoretical as opposed to its title, according to which one would expect how to learn to compute with hp-FEM. Lots of mistakes throughout the book make the reading very difficult.

### **Computing with hp-ADAPTIVE FINITE ELEMENTS: Volume II**

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Hierarchical hp-Adaptive Signed Distance Fields Dan Koschier, Crispin Deulzand Jan Benderx Graduate School for Computational Engineering TU Darmstadt, Germany ... computer graphics and serve a wide range of applications including surface reconstruction [CT11], rendering [Jam10], geometrical

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A A Comparison of hp-Adaptive Strategies for Elliptic Partial Differential Equations WILLIAM F. MITCHELL and MARJORIE A. MCCLAIN, National Institute of Standards and Technology The hp version of the finite element method (hp-FEM) combined with adaptive mesh refinement is a

## **A A Comparison of hp-Adaptive Strategies for Elliptic**

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electromagnetic applications, within high performance computing environments. The objective of this contribution is to investigate and assess the potential benefits and associated costs of applying advanced adaptive techniques in supercomputing-range parallel processing systems, when the principal adaptive feedback-control

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PDF Cited By; SIAM J. Sci. Comput ... Computer Methods in Applied Mechanics and Engineering 342, 414-437. ... (2015) hp-Adaptive composite discontinuous Galerkin methods for elliptic eigenvalue problems on complicated domains. Applied Mathematics and Computation 267, 604-617.

## **hp-Version Composite Discontinuous Galerkin Methods for**



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### **David Pardo - Academia.edu**

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### **Numerical Computing without Discretization Woes**

hp-adaptive discontinuous Galerkin methods for computing band gaps in photonic crystals S. Giani ? Abstract In this paper we propose and analyze a hp-adaptive discontinuous finite element method for computing the band structure of 2D periodic photonic crystals. The problem can be reduced to the computation of the discrete spectrum of each mem-

### **An a posteriori error estimator for hp-adaptive**

(2006) An hp-adaptive mixed discontinuous Galerkin FEM for nearly incompressible linear elasticity. Computer Methods in Applied Mechanics and Engineering 195 :25-28, 3224-3246. (2006) Discontinuous finite element methods for incompressible flows on subdomains with non-matching interfaces.

### **Mixed hp -DGFEM for Incompressible Flows | SIAM Journal on**

Computing with hp-ADAPTIVE FINITE ELEMENTS: Volume II Frontiers: Three Dimensional Elliptic and Maxwell Problems with Applications (Chapman & Hall/CRC Applied Mathematics & Nonlinear Science) eBook: Leszek Demkowicz, Jason Kurtz, David Pardo, Maciek Paszanski, Waldemar Rachowicz, ...