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## A Comparison of hp-adaptive Strategies for Elliptic Partial Differential Equations

By U. S. Department Of Commerce

CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 216 pages. Dimensions: 11.0in. x 8.5in. x 0.5in. The hp version of the finite element method (hp-FEM) combined with adaptive mesh refinement is a particularly efficient method for solving partial differential equations because it can achieve a convergence rate that is exponential in the number of degrees of freedom. hp-FEM allows for refinement in both the element size,  $h$ , and the polynomial degree,  $p$ . Like adaptive refinement for the  $h$  version of the finite element method, a posteriori error estimates can be used to determine where the mesh needs to be refined, but a single error estimate can not simultaneously determine whether it is better to do the refinement by  $h$  or by  $p$ . Several strategies for making this determination have been proposed over the years. In this paper we summarize these strategies and present the results of a numerical experiment to study the convergence properties of these strategies. This item ships from La Vergne, TN. Paperback.



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