



# A Review of Posteriori Error Estimation & Adaptive Mesh-Refinement Techniques

*Rudiger Verfurth*

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Wiley - Teubner Series Advances in Numerical Mathematics Editors Hans Georg Bock Mitchell Luskin  
Wolfgang Hackbusch Rolf Rannacher A Review of A Posteriori Error Estimation and Adaptive Mesh-  
Refinement Techniques Rudiger Verfurth Ruhr-Universitat Bochum, Germany Self-adaptive discretization  
methods have gained an enormous importance for the numerical solution of partial differential equations  
which arise in physical and technical applications. The aim of these methods is to obtain a numerical solution  
within a prescribed tolerance using a minimal amount of work. The main tools utilised are a posteriori error  
estimators and indicators which are able to give global and local information on the error of the numerical  
solution, using only the computed numerical solution and known data of the problem. Presenting the most  
frequently used error estimators which have been developed by various scientists in the last two decades, this  
book demonstrates that they are all based on the same basic principles. These principles are then used to  
develop an abstract framework which is able to handle general nonlinear problems. The abstract results are  
applied to various classes of nonlinear elliptic partial differential equations from, for example, fluid and  
continuum mechanics, to yield reliable and easily computable error estimators. The book covers stationary  
problems but omits transient problems, where theory is often still too complex and not yet well developed.

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