



Numerical Solution of Elliptic Differential Equations by Reduction to the Interface

By Boris N. Khoromskij

Springer Feb 2004, 2004. Taschenbuch. Book Condition: Neu. 235x155x16 mm. This item is printed on demand - Print on Demand Neuware - During the last decade essential progress has been achieved in the analysis and implementation of multilevel/multigrid and domain decomposition methods to explore a variety of real world applications. An important trend in modern numerical simulations is the quick improvement of computer technology that leads to the well known paradigm (see, e. g. , [78,179]): high-performance computers make it indispensable to use numerical methods of almost linear complexity in the problem size N , to maintain an adequate scaling between the computing time and improved computer facilities as N increases. In the h -version of the finite element method (FEM), the multigrid iteration realizes an $O(N)$ solver for elliptic differential equations in a domain $\Omega \subset \mathbb{R}^d$ with $N = O(h^{-d})$, where h is the mesh parameter. In the boundary element method (BEM), the traditional panel clustering, fast multi-pole and wavelet based methods as well as the modern hierarchical matrix techniques are known to provide the data-sparse approximations to the arising fully populated stiffness matrices with almost linear cost $O(Nr \log Nr)$, where $1 \dots$



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