New Methods for Solving Elliptic Equations (North-Holland Series in Applied Mathematics & Mechanics)

Vekua, I.N.

New Methods For Solving Elliptic Equations

Brendan G. Carr

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eigenvalue problems with the help of a computer This volume provides a case study in scientific computing the art of utilizing physical intuition mathematical theorems and algorithms and modern computer technology to construct and explore realistic models of problems arising in the natural sciences and engineering   <u>Building Bridges: Connections and Challenges in Modern Approaches to Numerical Partial Differential Equations</u> Gabriel R. Barrenechea,Franco Brezzi,Andrea Cangiani,Emmanuil H. Georgoulis,2016-10-03 This volume contains contributed survey papers from the main speakers at the LMS EPSRC Symposium Building bridges connections and challenges in modern approaches to numerical partial differential equations This meeting took place in July 8 16 2014 and its main purpose was to gather specialists in emerging areas of numerical PDEs and explore the connections between the different approaches The type of contributions ranges from the theoretical foundations of these new techniques to the applications of them to new general frameworks and unified approaches that can cover one or more than one of these emerging techniques   **Numerical Solution of Elliptic Differential Equations by Reduction to the Interface** Boris N. Khoromskij,Gabriel Wittum,2012-12-06 During the last decade essential progress has been achieved in the analysis and implementation of multilevel rnultigrid and domain decomposition methods to explore a variety of real world applications An important trend in mod ern 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 real izes an O N solver for elliptic differential equations in a domain n c IRd d with N O h where h is the mesh parameter In the boundary ele ment 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 d Nr O h is the number of degrees of freedom associated with the boundary The aim of this book is to introduce a wider audience to the use of a new class of efficient numerical methods of almost linear complexity for solving elliptic partial differential equations PDEs based on their reduction to the interface   **Encyclopaedia of Mathematics** Michiel Hazewinkel,2013-12-01   **Encyclopaedia of Mathematics** M. Hazewinkel,2013-12-01   *Boundary Element Methods in Engineering* ,1982

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