

图书基本信息

书名：<<第四届国际科学计算与应用研讨会论文集>>

13位ISBN编号：9787030187765

10位ISBN编号：7030187768

出版时间：2007-1

出版时间：科学

作者：Ben-yu Guo

页数：174

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

## 内容概要

This volume is a collection of 18 refereed papers presented at The Fourth International Workshop on Scientific Computing and Applications held on June 20-23, 2005 at Shanghai Jiaotong University, China, co-organized with Shanghai E-Institute for Computational Science. The former workshops of the series were held at City University of Hong Kong, in December 1998 and October 2003, and Banff, Alberta, Canada in May 2000, respectively. The aim of this series of workshops is to bring together mathematicians, applied scientists and engineers working in the field of scientific computing and its applications, and to provide a forum for the participants to meet and exchange their ideas and experiences in the research work. In this year, more than one hundred people from different countries attended the four day event. The workshop includes 11 plenary talks and a number of contributed talks, which cover a wide range of topics in the field of scientific computing and its applications. This workshop was supported by Shanghai Jiaotong University and Shanghai E-Institute for Computational Science. The editors wish to thank Department of Mathematics of Shanghai Jiaotong University for its contributions to the success of the workshop. We have also received significant help from members of the Scientific Committee and Organizing Committee. We are grateful to all authors for their contributions, to referees for reviewing the papers, and to Professor Tian Hong jiong for preparing this volume.

书籍目录

Invited talks  
Recovery of Boundaries and the Boundary Conditions for Multiple Obstacles from the Far-field Pattern Jin Cheng, Jijun Liu, Gen Nakamura  
The Heterogeneous Multi-scale Method: A Mathematical Framework for Multi-scale Modeling Weinan E  
Convergence Analysis of Adaptive Mixed and Nonconforming Finite Element Methods Ronald H. W. Hoppe, Carsten Carstensen  
A Steepest Descent Algorithm for Control Problems with Switches: Application to the Optimization of Peritoneal Dialysis Diego Mastalli, Alfio Quarteroni, Paolo Zunino  
Numerical Simulation of Rayleigh-Taylor Problems by an Energy-Stable Finite Element Scheme Masahisa Tabata  
Variational Principles and Large Scale Effective Quantities Jack Xin  
Some Iterative Schemes for Finite Element Eigenvalue Approximations Aihui Zhou  
Short communications  
Spectral Method for Black-Scholes Equation Benyu Guo, Xiaoyong Zhang  
Vibration Analysis of Kirchhoff Plates by the Morley Element Method Liang Guo, Jianguo Huang, Zhongci Shi  
Fast Legendre Collocation Algorithms for Two-dimensional Helmholtz Equation Liping He  
The Coupled NBEM and FEM for Three-Dimensional Exterior Problem with a Prolate Spherical Artificial Boundary Hongying Huang, Dehao Yu  
Numerical Calculations of Composite Solid Propellant Combustion Muhammad Mazhar Iqbal, Wang Liang  
A Stabilized Mixed Finite Element Method for a Thermally Nonlinear Coupled Problem Gang Li, Jiang Zhu, Xijun Yu  
An Efficient Splitting Numerical Method for the Convection-Diffusion Problems Dong Liang, Chuanbin Du, Hong Wang  
A Shift Hermite Spectral Method for the Generalized Korteweg-de Vries Equation Heping Ma, Weiwei Sun  
Uniform Asymptotically Stable Set of Delay Differential Equations and its Runge-Kutta Discretization Hongjiong Tian  
Compact Schemes and Sixth Order Incremental Unknowns: Matrix Construction Yujiang Wu, Yuhong Ran, Xingxing Jia, Jiangping Hu  
Mass Conserved Navier-Stokes Solvers Based on Pressure Poisson Equation Yunxin Zhang, Yongji Tan

版权说明

本站所提供下载的PDF图书仅提供预览和简介, 请支持正版图书。

更多资源请访问:<http://www.tushu007.com>