

<<有限元超收敛分析及后验误差估计>>

图书基本信息

书名 : <<有限元超收敛分析及后验误差估计>>

13位ISBN编号 : 9787030212993

10位ISBN编号 : 7030212991

出版时间 : 1970-1

出版时间 : 科学出版社

作者 : Ningning Yan

页数 : 229

版权说明 : 本站所提供之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

Since the 1970s, Science press has published more than thirty volumes in its series Monographs in Computational Methods. This series was established and led by the late academician, Feng Kang, the founding director for Computing Center of the Chinese Academy of Sciences. The monograph series has provided timely information of the frontier directions and latest research results in computational mathematics. It has had great impact on young scientists and the entire research community, and has played a very important role in the development of computational mathematics in China.

书籍目录

Chapter 1 Basic framework 1.1 Preliminaries 1.2 Model problem 1.3 Integral identity 1.4 Global superconvergence analysis 1.5 Brief summary and notes
Chapter 2 Integral identities 2.1 Bilinear rectangular element 2.2 General results for bilinear element 2.3 Rectangular Lagrange elements of order p
2.4 Rectangular finite elements with derivative degrees of freedom 2.5 Rectangular mixed finite elements
2.6 Summary of integral identities
Chapter 3 Superconvergencne Analysis 3.1 Elliptic partial differential equations 3.2 Nonconforming finite elements 3.3 Evolution partial differential equations
3.4 Hyperbolic equation of order one 3.5 Mixed finite elements 3.6 Integral equations
Chapter 4 More discussions on high accuracy analysis 4.1 Global superconvergence 4.2 Extrapolation 4.3 Defect correction 4.4 Local superconvergence 4.5 Ultraconvergence 4.6 Eigenvalue problems 4.7 Numerical examples
Chapter 5 A posteriori error estimates 5.1 Introduction 5.2 Residual type a posteriori error estimate 5.3 Recovery type a posteriori error estimate 5.4 Equivalence of recovery type estimator 5.5 Asymptotically exactness of recovery type estimator 5.6 Some remarks on two kinds of estimators 5.7 A posteriori error estimate for optimal control problems 5.8 Numerical examples
Bibliography

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>