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<<椭圆方程有限元方法的整体超收>>

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内容概要

This book cove the advanced study on the global superconvegence of elliptic equatio in both theory and computation, where the main materials are adapted from our journal pape published. A deep and rather completed analysis of global supperconvergence is explored for bilinear, biquadratic, Adini's and bi-cubic Hermite elements, as well as for the finite difference method. Poisson's and the biharmonic equatio are included, and eigenvalue and semi-linear problems are discussed. The singularity problems, blending problems, coupling techniques, a posteriori interpolant techniques, and some physical and engineering problems are studied. Numerical examples are provided for verification of the analysis, and other numerical experiments can be found from our publicatio. This book has also summarized some important results of Lin, his colleagues and othe. This book is written for researche and graduate students of mathematics and engineering to study and apply the global superconvergence for numerical PDE.

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作者简介

Zi-Cai Li graduated in 1963 from Tsinghua University, and received the Ph. D. degree in 1986 from the University of Toronto. Since 1993, he has been a Professor in Department of Applied .Mathematics, Sun Yat-sen University, Kaohsiung, Taiwan. His research areas are numerical analysis, scientific computing, image processing and pattern recognition. Hung-Tsai Huang is a Professor at Department of Applied Mathematics, I-Shou University, Kaohsiung, Taiwan. He received the Ph.D. degree in 2003 from the Department of Applied Mathematics, Sun Yat-sen University, Kaohsiung, Taiwan. His research areas are numericalanalysis and scientific computing. Ningning Yan earned her Ph.D. from the Institute of Computational Mathematics, Chinese Academy of Sciences in 1990. She is currently the professor of Academy of Mathematics and Systems Science, Chinese Academy of Sciences. Her research interests are numerical methods for partial differential equations and optimal control problems.

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