#### 图书基本信息

书名: <<椭圆方程有限元方法的整体超收敛及其应用>>

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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.

#### 作者简介

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