

# The finite element method for elliptic problems (Studies in mathematics and its applications)



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The Finite Element Method for Elliptic Problems is the only book available that fully analyzes the mathematical foundations of the finite element method. It is a valuable reference and introduction to current research on the numerical analysis of the finite element method, and also a working textbook for graduate courses in numerical analysis. It includes many useful figures, as well as exercises of varying difficulty. Although nearly 25 years have passed since this book was first published, the majority of its content remains up-to-date. Chapters 1 through 6, which cover the basic error estimates for elliptic problems, are still the best available sources for material on this topic. The material covered in Chapters 7 and 8, however, has undergone considerable progress in terms of new applications of the finite element method. As such the author has provided a bibliography of recent texts that complement the classic material in these chapters.

作者介绍:

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