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图书基本信息

书名：<<The mathematical theory of finite element methods有限元素方法的数学理论>>

13位ISBN编号：9780387954516

10位ISBN编号：0387954511

出版时间：2002-4

出版时间：Springer Verlag

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页数：361

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内容概要

This book develops the basic mathematical theory of the finite element method, the most widely used technique for engineering design and analysis. This expanded second edition contains new chapters on additive Schwarz preconditioners and adaptive meshes. New exercises have also been added throughout. The book will be useful to mathematicians as well as engineers and physical scientists. It can be used for a course that provides an introduction to basic functional analysis, approximation theory, and numerical analysis, while building upon and applying basic techniques of real variable theory. Different course paths can be chosen, allowing the book to be used for courses designed for students with different interests.

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