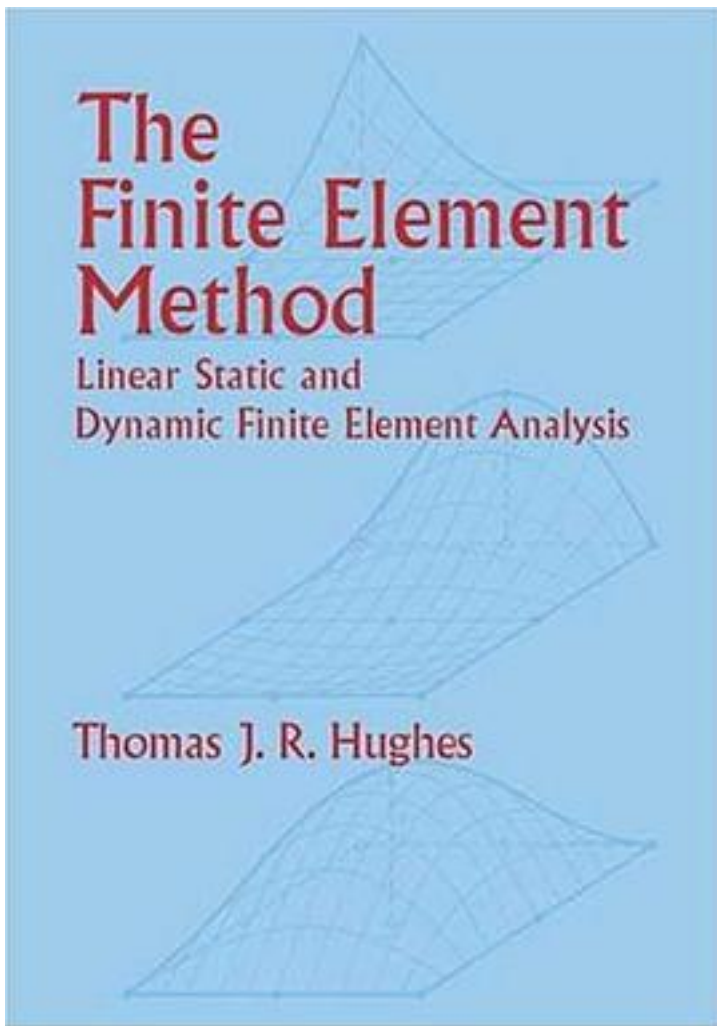


# The Finite Element Method



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著者:Thomas J. R. Hughes

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Directed towards students without in-depth mathematical training, this text cultivates

comprehensive skills in linear static and dynamic finite element methodology. Included are a comprehensive presentation and analysis of algorithms of time-dependent phenomena plus beam, plate, and shell theories derived directly from three-dimensional elasticity theory. Solution guide available upon request.

作者介绍:

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## 标签

FEM

机械

参考书

Mechanics

模拟受力分析

The

Method

Finite

## 评论

在FDM和BEM之外最重要的模拟进行材料受力分析的方法便是FEM，此书介绍极为全面具体.流程图、各种模式公式和材料数据一应俱全，图例也不在少..还包括针对不同的功能、复合材料进行不同的konte及单元选取的建议实例。不过在MPI进行的已经是基于C

OMSOL MULTIPHYSICS 3.3 (FEMLAB)版本的模拟研究，本书中的软件太旧供参考

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From Prof. Sirignano. This book is very grad-level based, so you need to know how to solve basic 2nd-O PDE and how to perform path integrals for example. This book is also aimed at people who would like to be able to write their own FEM solver. COMSOL is highly recommended since they even conduct CFD using FEM.

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我是Hughes 粉。

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觉得不如Bathe写得好

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经典教材没法不给五星。672页，还不包括非线性部分，很详细很到位，啃下这本FEM就算入门了，零基础来读简直欲仙欲死。建议泛函和线代基础打打好，算法最好也懂一点，备好弹性力学、固体力学最基础的知识。

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书评

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