Engineering Analysis with ANSYS Software
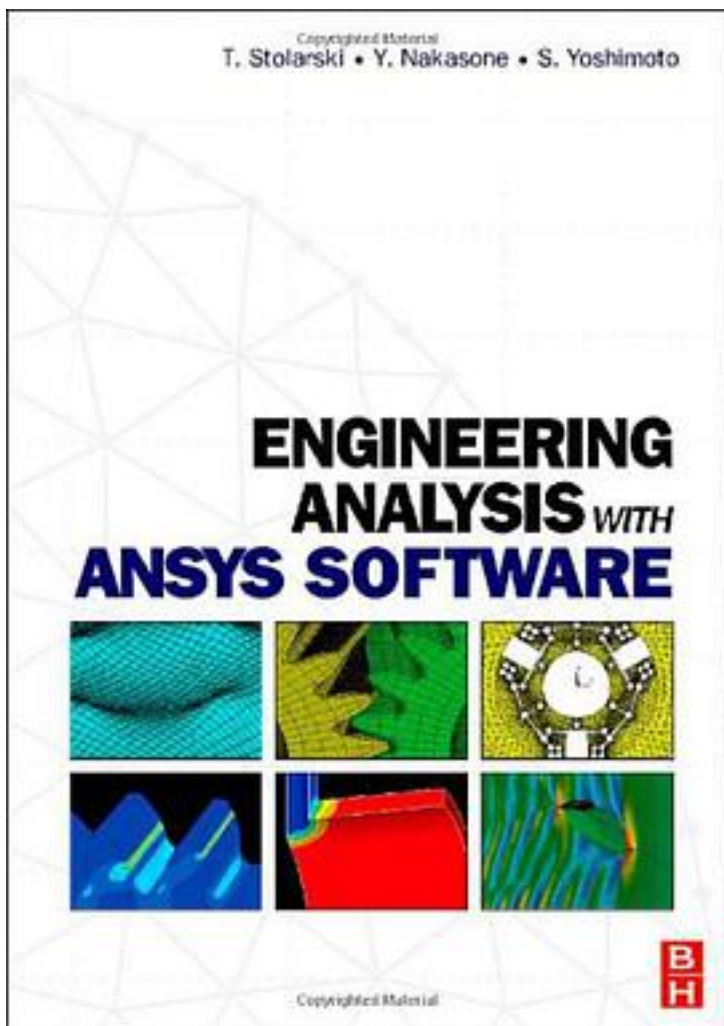
Engineering Analysis with ANSYS Software_下载链接1_

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For all engineers and students coming to finite element analysis or to ANSYS software

for the first time, this powerful hands-on guide develops a detailed and confident understanding of using ANSYS's powerful engineering analysis tools.

The best way to learn complex systems is by means of hands-on experience. With an innovative and clear tutorial based approach, this powerful book provides readers with a comprehensive introduction to all of the fundamental areas of engineering analysis they are likely to require either as part of their studies or in getting up to speed fast with the use of ANSYS software in working life.

Opening with an introduction to the principles of the finite element method, the book then presents an overview of ANSYS technologies before moving on to cover key applications areas in detail.

Key topics covered:

Introduction to the finite element method

Getting started with ANSYS software

stress analysis

dynamics of machines

fluid dynamics problems

thermo mechanics

contact and surface mechanics

exercises, tutorials, worked examples

With its detailed step-by-step explanations, extensive worked examples and sample problems, this book will develop the reader's understanding of FEA and their ability to use ANSYS's software tools to solve their own particular analysis problems, not just the ones set in the book.

* Develops a detailed understanding of finite element analysis and the use of ANSYS software by example

* Develops a detailed understanding of finite element analysis and the use of ANSYS software by example

* Exclusively structured around the market leading ANSYS software, with detailed and clear step-by-step instruction, worked examples, and detailed, screen-by-screen illustrative problems to reinforce learning

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目录:

Engineering Analysis with ANSYS Software_下载链接1_

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