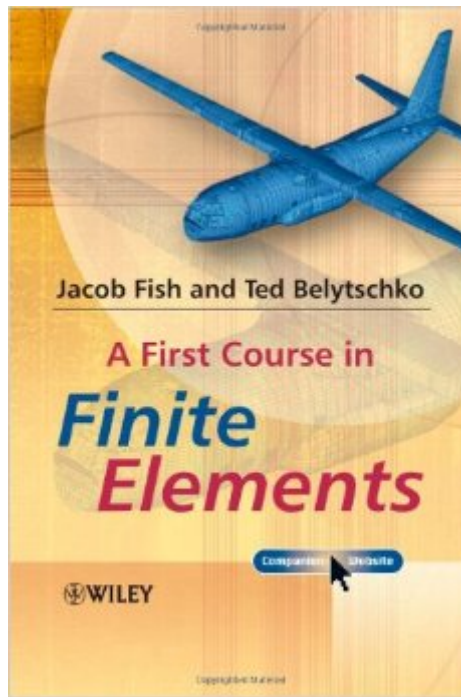


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# A First Course In Finite Elements



## Synopsis

Developed from the authors, combined total of 50 years undergraduate and graduate teaching experience, this book presents the finite element method formulated as a general-purpose numerical procedure for solving engineering problems governed by partial differential equations. Focusing on the formulation and application of the finite element method through the integration of finite element theory, code development, and software application, the book is both introductory and self-contained, as well as being a hands-on experience for any student. This authoritative text on Finite Elements: Adopts a generic approach to the subject, and is not application specific In conjunction with a web-based chapter, it integrates code development, theory, and application in one book Provides an accompanying Web site that includes ABAQUS Student Edition, Matlab data and programs, and instructor resources Contains a comprehensive set of homework problems at the end of each chapter Produces a practical, meaningful course for both lecturers, planning a finite element module, and for students using the text in private study. Accompanied by a book companion website housing supplementary material that can be found at <http://www.wileyurope.com/college/Fish> A First Course in Finite Elements is the ideal practical introductory course for junior and senior undergraduate students from a variety of science and engineering disciplines. The accompanying advanced topics at the end of each chapter also make it suitable for courses at graduate level, as well as for practitioners who need to attain or refresh their knowledge of finite elements through private study.

## Book Information

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## Customer Reviews

This is a great book for introductory finite elements. All the basic and fundamental stuff is there. Too bad, though, that it's an almost word for word copy of the book by Ottosen and Petersson (1992!). And, as is often the case, the original is just that little bit better - so minus one star.

This book makes many assumptions about the students previous knowledge. It assumes you know where equations come from and skips many steps when it is manipulating those equations. It took us hours to work through each example just trying to figure out how the author went from step 1 to step 3. After taking this class, I understand less about Finite Elements then I thought I did before the class.

Although this says it comes with an accompanying website which includes a student edition of ABAQUS, THIS IS WRONG!!!!!! bought the book brand new, which mean I paid \$78, and I got NO WEBSITE, NO SOFTWARE. You can save money by buying this book elsewhere!

Contains very solid theory, but it a little hard to understand. It could use to provide more examples of difficult concepts. Would recommend a more understandable book.

The book is intended as an introductory course on the finite element analysis for undergraduate and graduate students. It is written very clearly, so the material could be comprehended by the target audience. At the same time one of the chapters of the book is dedicated to the commercial finite element program, allowing students to understand how finite element method could be used for solving real life engineering problems. Student version of Abaqus is included in the book, which allows students to experience the entire process from creating a model to viewing and analyzing the results.

Author does a pretty poor job explaining just about anything in finite elements. He gives a generic suggestion, then blasts the reader with complex examples where steps are skipped.

Nice introductory course to FEM

As far as technical books go on somewhat advanced topics, this is about as easy to follow as they come. And, it has a wealth of very straight forward examples written in plain english.

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