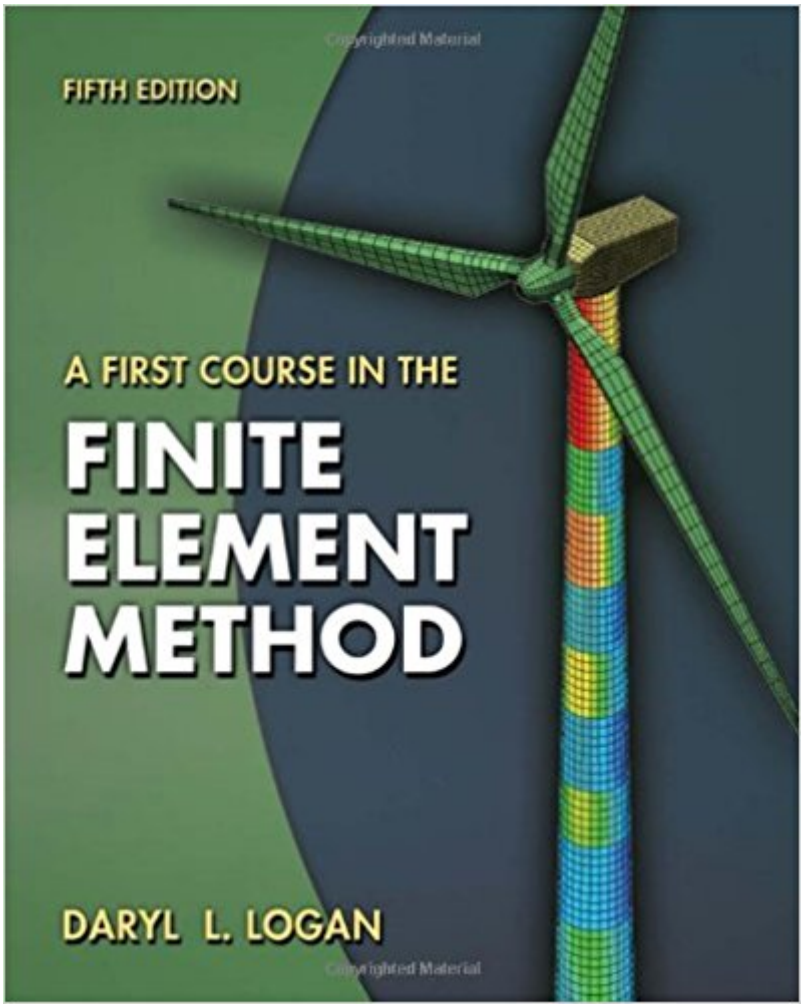
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A First Course In The Finite Element Method



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Synopsis

A FIRST COURSE IN THE FINITE ELEMENT METHOD provides a simple, basic approach to the course material that can be understood by both undergraduate and graduate students without the usual prerequisites (i.e. structural analysis). The book is written primarily as a basic learning tool for the undergraduate student in civil and mechanical engineering whose main interest is in stress analysis and heat transfer. The text is geared toward those who want to apply the finite element method as a tool to solve practical physical problems.

Book Information

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Customer Reviews

"Logan does a very good job of keeping things simple and straight forward. Fairly well written using a simple approach without extensive theoretical and mathematical theory. The text is very complete.""Logan has a very easy-to-read style, while retaining the precision and clarity of engineering topics without being dry.""The author presented topics in a simple and easy-to-follow way and provided subsequently proper derivation or illustration to enhance students' understanding. I cannot find a textbook which is better than this one in the field of finite element method."

Daryl L. Logan is Professor of Mechanical Engineering at the University of Wisconsin-Platteville. He received his Ph.D. in 1972 from the University of Illinois -- Chicago. He has been a member of the American Society of Mechanical Engineers (ASME), Tau Beta Pi - National Honor Society, and the American Society for Engineering Education (ASEE). He holds a Professional Engineer's License in

the state of Indiana.

As far as textbooks go, this one is better than most. It includes not just examples of hand calculations, but figures and problems utilizing CAE tools and modern computer programs as well. Equations are well explained and laid out, and especially matrix equations are well-defined unlike many other books that I've seen. I will definitely keep this textbook with me throughout my career as an engineer as it is an excellent reference for anyone using FEM/FEA tools or running simplified analysis in programs such as MatLab. Many of the concepts in this book can be applied to modern CAE problems as well. I was required to use this textbook for a class, but I will definitely hang onto it.

More than likely you are looking at buying this book because it's required for a class. First things first, the book itself is chock full of great examples, with more examples for the more challenging sections. It explains several types of solution methods for each type of element. The only problem with this book, and I feel it is significant, is that there are a fairly large number of mistakes. Answers are provided in the back of the book but are regularly incorrect. Some of the examples also are off because they randomly multiply by a constant that shouldn't be there or raise a term to the third when it should be the second. The book also suffers slightly from formatting when it reduces the size of a matrix to make it fit more easily, leaving you to wonder what happened to the rest of it.

Explains things in exhausting detail. At the same time neglects key information. Your usual textbook. Not that students have a choice. However, it is designed for the undergraduate level. My rating may also be influenced by a terrible professor that lectures from PowerPoint that was an abridged word-for-word od the text.

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makes colored FEA diagrams useless, and the page weight is so light the paper is nearly transparent.That being said the book itself is well done and I don’t care where and how it was published since it’s still legible. You don’t really need the few colored diagrams the book has so the book still servers it purpose.In hindsight it would have been worth the extra money to get a used hardcover. 3 Starts for a good book but bad format.

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Excellent Text Book on Finite Element, it is very well written it can be agood reference for an undergraduate starting in Finite Element Method, there are plenty of examples. If you are looking for a more exhaustive text book, I suggest you first go into this text book and then start digging in far more complex topics.

The sheets are a little flimsy but other than that is great

This is a really good textbook. I never understood my professor’s lectures, so I would go home and read the book and then it would all make sense. And there are lots of examples that walk you through all the steps on how to solve these types of problems. I couldn’t have passed the class without this book.

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