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Concepts And Applications Of Finite Element Analysis, 4th Edition



Synopsis

This book has been thoroughly revised and updated to reflect developments since the third edition, with an emphasis on structural mechanics. Coverage is up-to-date without making the treatment highly specialized and mathematically difficult. Basic theory is clearly explained to the reader, while advanced techniques are left to thousands of references available, which are cited in the text.

Book Information

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Customer Reviews

Instructor's Manual available. -- The publisher, John Wiley & Sons --This text refers to an out of print or unavailable edition of this title.

A structural mechanical approach to finite element analysis, now in a new edition. Contains over 750 problems (many of them new), introduces matrix methods early on and includes Fortran algorithms for solving numerous problems. Emphasis is physical and practical, rather than mathematical, and advanced topics such as nonlinear material behavior and structural dynamics are given comprehensive treatment. --This text refers to an out of print or unavailable edition of this title.

As a graduate mechanical engineering student who has taken a few FEA courses and worked in industry for 5 years performing finite element analysis, I'm absolutely disgusted with this book. This book was used for an 'Intro to FEA' graduate course I recently took. It provides almost no examples

and has a lack of coherent, methodical process in the presentation of equations. The ordering of the book was not in typical fashion of how FEA is taught. Theory is great, but without examples, students are not going to be able to apply the theory well. I have never gotten rid of an engineering book including undergraduate and graduate course textbooks. This is the first book I've had to sell, that should tell you a lot. I will go back to referencing my undergraduate and other graduate FEA book I have as I did throughout most of the course since this book was useless. As someone else stated, the verbiage in this book is terrible, it's presented so over-the-top. The role of a textbook is to break down complex topics into useable information, not to over-complicate as this book has done so well. Avoid this book or any class that uses this book because you will basically not have a book to refer to.

I really tried to learn the finite element method by reading this book in great detail and is why I bought this book for an introduction Finite Element class. The organization and notation of symbols of the book was very odd, and therefore made it hard to read. Rather than talking about the theory first, the authors first state the equations, and then talk about "remarks" on the equations and underlying theory. The book contains very easy and introductory examples and problems, not practical examples that would help in the computer implementation of finite elements. For example, the book does not contain any examples on how to compute the stresses and strains from interconnected finite elements (which would help greatly when you want to write your own finite element program). Overall, a very confusing and brief presentation of the topics. I would not recommend this book.

This is a text book I needed for school. Because of a misunderstanding I ended up ordering this late but still got it in time for school. Fast shipping and tracking included. I love it!

My Professor calls this the 'Cook Book', it is a very good reference for Finite Elements, I use it a lot. Very professional looking and nice book.

Hard to understand.

I had a really hard time understanding anything in this book. I relied solely on my professor and his notes.

Straight forward and well written I only fell asleep a couple times while reading

Turned out to be the same Edition but a different Region for the book i ordered. Everything looks good and matches my buddies exactly. Just wasnt the expected the product i received

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