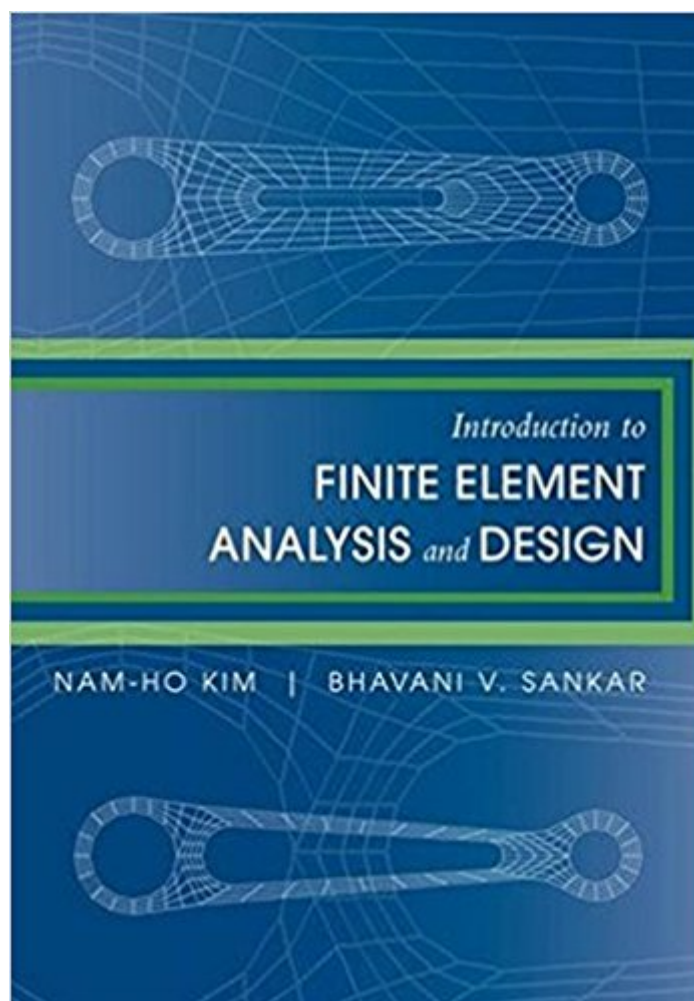


The book was found

Introduction To Finite Element Analysis And Design



Synopsis

Finite Element Method (FEM) is one of the numerical methods of solving differential equations that describe many engineering problems. This new book covers the basic theory of FEM and includes appendices on each of the main FEA programs as reference. It introduces the concepts so that engineers can use the method efficiently and interpret the results properly. They'll learn about one-dimensional finite elements, including truss and beam elements, as well as two and three dimensional finite elements. Numerous examples are also included using ANSYS, ABAQUS, NASTRAN, Pro/Engineer, and I-DEAS. This approach will help engineers develop a thorough understanding of the theory behind FEM as well as its application.

Book Information

Paperback: 432 pages

Publisher: Wiley; 1 edition (October 20, 2008)

Language: English

ISBN-10: 047012539X

ISBN-13: 978-0470125397

Product Dimensions: 6.9 x 0.6 x 9.9 inches

Shipping Weight: 1.3 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars 10 customer reviews

Best Sellers Rank: #129,946 in Books (See Top 100 in Books) #78 in Books > Science & Math > Mathematics > Applied > Differential Equations #80 in Books > Science & Math > Mathematics > Mathematical Analysis #590 in Books > Engineering & Transportation > Engineering > Mechanical

Customer Reviews

This is a great text for an introductory course for FEA. There seemed to be a few numerical errors or typos in some of the examples, but other than that I have no real complaints about the book. Used it for an FEA course this semester and it was straight forward to follow along with.

This is an excellently written textbook. I took a finite element course that the author Dr. Kim taught and he used this textbook. I enjoyed how the book used examples to illustrate the concepts in each chapter.

Very useful books.

A+. Thanks.

too expensive for what it has.

A++++

This book starts FEA from the very scratch. It is good for an undergraduate course and can be used as a quick review for graduate level. The chapters are very well organized. Every single procedures are illustrated clearly followed by good examples. There are several software package including ANSYS and MATLAB at the end of the book with explanation on how to do some of the chapter exercises and projects. The book level goes as far as to teach you how to optimize a design like a torque arm structure using FAE (that's what you see on the cover page). As a student who have read each single pages and lines of this book and did the exercises, I have found several typos which could be misleading if I was not familiar with concepts. All in all, the contents are good, BUT, BUT, BUT it is very expensive for what you get (around 90\$) AND it is VERY HARD to use. They have printed this 420 pages book on very thin papers (like onion skin) which makes it extremely hard to use. There is also no index at the end. Thanks to the authors for the good job.- Ramin Shamshiri, Dec.2009, Gainesville.

Love this product. just what I was looking for at a reasonable price. Delivery was very fast. i have bought one before, good product with high quality. would purchase again. helpful.

[Download to continue reading...](#)

The Finite Element Method: Linear Static and Dynamic Finite Element Analysis (Dover Civil and Mechanical Engineering) Introduction to Finite Element Analysis and Design Introduction to Finite Element Analysis Using SOLIDWORKS Simulation 2017 Introduction to Nonlinear Finite Element Analysis Introduction to Finite Element Analysis for Engineers Fundamental Finite Element Analysis and Applications: with Mathematica and Matlab Computations Concepts and Applications of Finite Element Analysis, 4th Edition The Finite Element Analysis of Shells - Fundamentals (Computational Fluid and Solid Mechanics) Finite Element Analysis (Engineering) Fundamentals of Finite Element Analysis Finite-Element Design of Concrete Structures, 2nd edition An Introduction to the Finite Element Method, 3rd Edition (McGraw Hill Series in Mechanical Engineering) An Introduction to the Finite Element Method (McGraw-Hill Mechanical Engineering) The Handbook of Five Element

Practice (Five Element Acupuncture) Finite Element Methods for Particle Transport: Applications to Reactor and Radiation Physics (Research Studies in Particle and Nuclear Technology) Extended Finite Element Method: Theory and Applications (Wiley Series in Computational Mechanics) Finite Element Simulations with ANSYS Workbench 17 Solder Joint Reliability Assessment: Finite Element Simulation Methodology (Advanced Structured Materials) A First Course in the Finite Element Method (Activate Learning with these NEW titles from Engineering!) The Mathematical Theory of Finite Element Methods (Texts in Applied Mathematics)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)