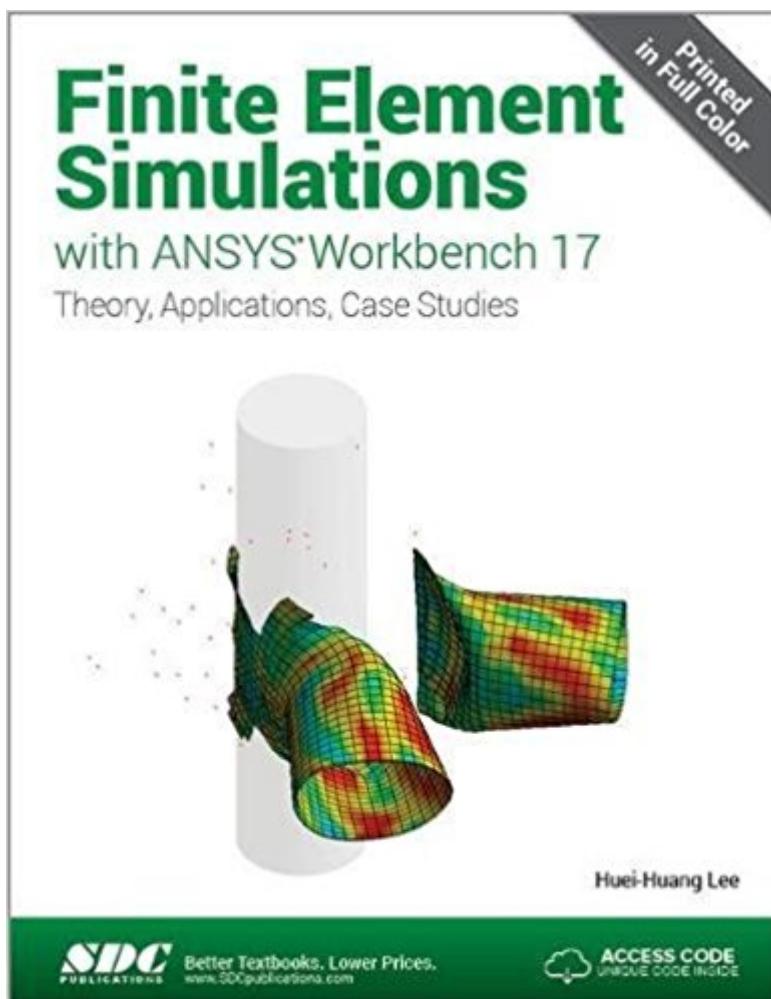The book was found

# Finite Element Simulations With ANSYS Workbench 17

# Synopsis

Finite Element Simulations with ANSYS Workbench 17 is a comprehensive and easy to understand workbook. Printed in full color, it utilizes rich graphics and step-by-step instructions to guide you through learning how to perform finite element simulations using ANSYS Workbench. Twenty seven real world case studies are used throughout the book. Many of these case studies are industrial or research projects that you build from scratch. Prebuilt project files are available for download should you run into any problems. Companion videos, that demonstrate exactly how to perform each tutorial, are also available. Relevant background knowledge is reviewed whenever necessary. To be efficient, the review is conceptual rather than mathematical. Key concepts are inserted whenever appropriate and summarized at the end of each chapter. Additional exercises or extension research problems are provided as homework at the end of each chapter. A learning approach emphasizing hands-on experiences spreads though this entire book. A typical chapter consists of 6 sections. The first two provide two step-by-step examples. The third section tries to complement the exercises by providing a more systematic view of the chapter subject. The following two sections provide more exercises. The final section provides review problems. Table of Contents 1. Introduction 2. Sketching 3. 2D Simulations 4. 3D Solid Modeling 5. 3D Simulations 6. Surface Models 7. Line Models 8. Optimization 9. Meshing 10. Buckling and Stress Stiffening 11. Modal Analysis 12. Transient Structural Simulations 13. Nonlinear Simulations 14. Nonlinear Materials 15. Explicit Dynamics Index

# Book Information

Perfect Paperback: 608 pages

Publisher: SDC Publications; Pap/Psc edition (March 1, 2017)

Language: English

ISBN-10: 1630570885

ISBN-13: 978-1630570880

Product Dimensions:  1 x 8.5 x 10.5 inches

Shipping Weight: 3 pounds (View shipping rates and policies)

Average Customer Review:    5.0 out of 5 stars     2 customer reviews

Best Sellers Rank: #86,125 in Books (See Top 100 in Books)   #48 inÃ Â Books > Computers & Technology > Graphics & Design > CAD   #73 inÃ Â Books > Computers & Technology > Graphics & Design > Computer Modelling   #122 inÃ Â Books > Arts & Photography > Architecture > Drafting & Presentation

# Customer Reviews

This book has pictures, step by step instruction down to what to button to press, and the book is in color. This book makes you do hands on tutorials first then it explains in another chapter what you just did and an explanation as to why.I have had ZERO frustrating experiences reading this book and working with ANSYS Workbench 17.1 student version. The book actually is designed around the student version's limitations of limited Nodes and Elements.Just take note of a couple things: first, the first chapter is just to read not actually do anything and second, the book assumes you know a couple very SIMPLE concepts of CAD.

Required for a college course

Download to continue reading...

Finite Element Simulations with ANSYS Workbench 17 The Finite Element Method: Linear Static and Dynamic Finite Element Analysis (Dover Civil and Mechanical Engineering) The Handbook of Five Element Practice (Five Element Acupuncture) Concepts and Applications of Finite Element Analysis, 4th Edition Introduction to Finite Element Analysis Using SOLIDWORKS Simulation 2017 Finite-Element Design of Concrete Structures, 2nd edition The Finite Element Analysis of Shells - Fundamentals (Computational Fluid and Solid Mechanics) Extended Finite Element Method: Theory and Applications (Wiley Series in Computational Mechanics) 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!) Introduction to Finite Element Analysis and Design The Mathematical Theory of Finite Element Methods (Texts in Applied Mathematics) Introduction to Nonlinear Finite Element Analysis Finite Element Analysis (Engineering) A First Course in the Finite Element Method An Introduction to the Finite Element Method, 3rd Edition (McGraw Hill Series in Mechanical Engineering) The Finite Element Method for Engineers Fundamentals of Finite Element Analysis An Introduction to the Finite Element Method (McGraw-Hill Mechanical Engineering) Fundamental Finite Element Analysis and Applications: with Mathematica and Matlab Computations