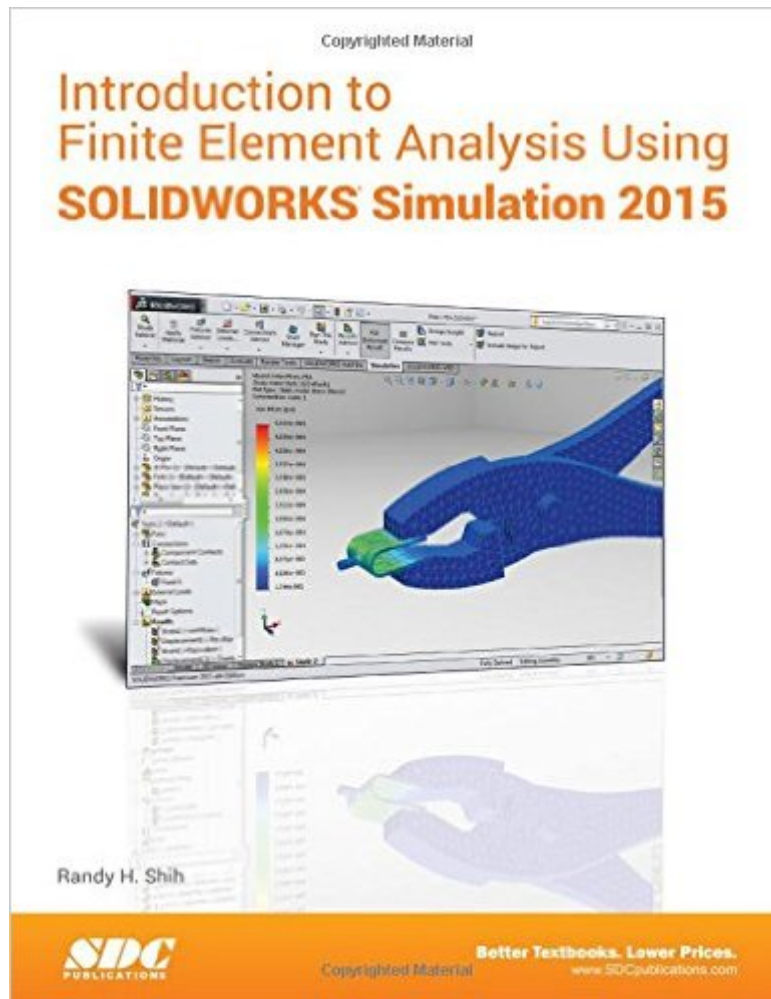


The book was found

Introduction To Finite Element Analysis Using SOLIDWORKS Simulation 2015



Synopsis

The primary goal of Introduction to Finite Element Analysis Using SOLIDWORKS Simulation 2015 is to introduce the aspects of Finite Element Analysis (FEA) that are important to engineers and designers. Theoretical aspects of FEA are also introduced as they are needed to help better understand the operation. The primary emphasis of the text is placed on the practical concepts and procedures needed to use SOLIDWORKS Simulation in performing Linear Static Stress Analysis and basic Modal Analysis. This text covers SOLIDWORKS Simulation and the lessons proceed in a pedagogical fashion to guide you from constructing basic truss elements to generating three-dimensional solid elements from solid models. This text takes a hands-on, exercise-intensive approach to all the important FEA techniques and concepts. This textbook contains a series of fourteen tutorial style lessons designed to introduce beginning FEA users to SOLIDWORKS Simulation. The basic premise of this book is that the more designs you create using SOLIDWORKS Simulation, the better you learn the software. With this in mind, each lesson introduces a new set of commands and concepts, building on previous lessons.

Table of Contents

1. The Direct Stiffness Method
2. Truss Elements in Two-Dimensional Spaces
3. 2D Trusses in MS Excel and the Truss Solver
4. Truss Elements in SOLIDWORKS Simulation
5. SOLIDWORKS Simulation Two-Dimensional Truss Analysis
6. Three-Dimensional Truss Analysis
7. Basic Beam Analysis
8. Beam Analysis Tools
9. Statically Indeterminate Structures
10. Two-Dimensional Surface Analysis
11. Three-Dimensional Solid Elements
12. 3D Thin Shell Analysis
13. FEA Contact Analysis
14. Dynamic Modal Analysis

Index

Book Information

Perfect Paperback: 512 pages

Publisher: SDC Publications (January 19, 2015)

Language: English

ISBN-10: 1585039314

ISBN-13: 978-1585039319

Product Dimensions: 1.2 x 8.8 x 11.2 inches

Shipping Weight: 2.6 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 starsÂ Â See all reviewsÂ (1 customer review)

Best Sellers Rank: #861,314 in Books (See Top 100 in Books) #83 inÂ Books > Computers & Technology > Graphics & Design > CAD > Solidworks #993 inÂ Books > Computers & Technology > Graphics & Design > Computer Modelling #1347 inÂ Books > Arts & Photography > Architecture

Customer Reviews

Easy to follow steps and as you do more chapters it stops repeating some steps so that you just automatically know how to do them

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

Introduction to Finite Element Analysis Using SOLIDWORKS Simulation 2015 Introduction to Finite Element Analysis Using SOLIDWORKS Simulation 2016 Introduction to Finite Element Analysis Using SolidWorks Simulation 2014 Introduction to Finite Element Analysis Using SolidWorks Simulation 2013 Thermal Analysis with SOLIDWORKS Simulation 2016 and Flow Simulation 2016 Analysis of Machine Elements Using SOLIDWORKS Simulation 2015 Concepts and Applications of Finite Element Analysis, 4th Edition Analysis of Machine Elements Using SolidWorks Simulation 2014 Analysis of Machine Elements Using SOLIDWORKS Simulation 2016 Engineering Analysis with SOLIDWORKS Simulation 2015 Vibration Analysis with SOLIDWORKS Simulation 2015 The Handbook of Five Element Practice (Five Element Acupuncture) Extended Finite Element Method: Tsinghua University Press Computational Mechanics Series How the Universe Got Its Spots: Diary of a Finite Time in a Finite Space Engineering Analysis with SOLIDWORKS Simulation 2016 Engineering Analysis with SolidWorks Simulation 2013 Engineering Analysis with SolidWorks Simulation 2014 Vibration Analysis with SolidWorks Simulation 2014 An Introduction to SOLIDWORKS Flow Simulation 2016 An Introduction to SolidWorks Flow Simulation 2014

[Dmca](#)