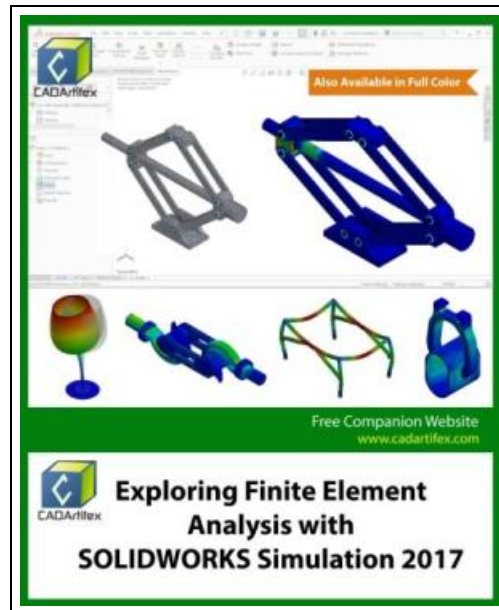


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Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Exploring Finite Element Analysis with SOLIDWORKS Simulation 2017 textbook is designed for instructor-led courses as well as for self-paced learning. It is intended to help engineers and designers interested in learning SOLIDWORKS Simulation for performing various types of finite element analysis (FEA). This textbook is a great help for new SOLIDWORKS Simulation users and a great teaching aid in a classroom training too. This textbook consists of 10 chapters, total 392 pages covering various types of analysis: Linear Static analysis, Buckling analysis, Fatigue analysis, Frequency analysis, and Non-linear Static analysis. This textbook covers important concepts and methods used in finite element analysis (FEA) such as Preparing Geometry, Boundary Conditions (load and fixture), Element Types, Contacts, Connectors, Meshing, Mesh Controls, Mesh Quality Check (Jacobian Check and Aspect Ratio), Adaptive Meshing (H-Adaptive and P-Adaptive), Iterative Methods (Newton-Raphson Scheme and Modified Newton-Raphson Scheme), Incremental Methods (Force, Displacement, or Arc Length), and so on. This textbook not only focuses on the usages of the tools of SOLIDWORKS Simulation but also on the fundamentals of Finite Element Analysis (FEA) through various real-world case studies. The case studies used in this textbook allow users to solve various real-world engineering problems in SOLIDWORKS Simulation step-by-step. Also, the Hands-on test drives are given at the end of chapters that allow users to experience themselves the ease-of-use and powerful capabilities of SOLIDWORKS Simulation. Every chapter begins with learning objectives related to the topics covered in that chapter. Moreover, every chapter ends with a summary which lists the topics learned in that chapter followed by questions to assess the knowledge. Table of Contents: Chapter 1. Introduction to FEA and SOLIDWORKS Simulation Chapter 2. Create, Import, and Prepare Geometry Chapter 3. Introduction to...



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