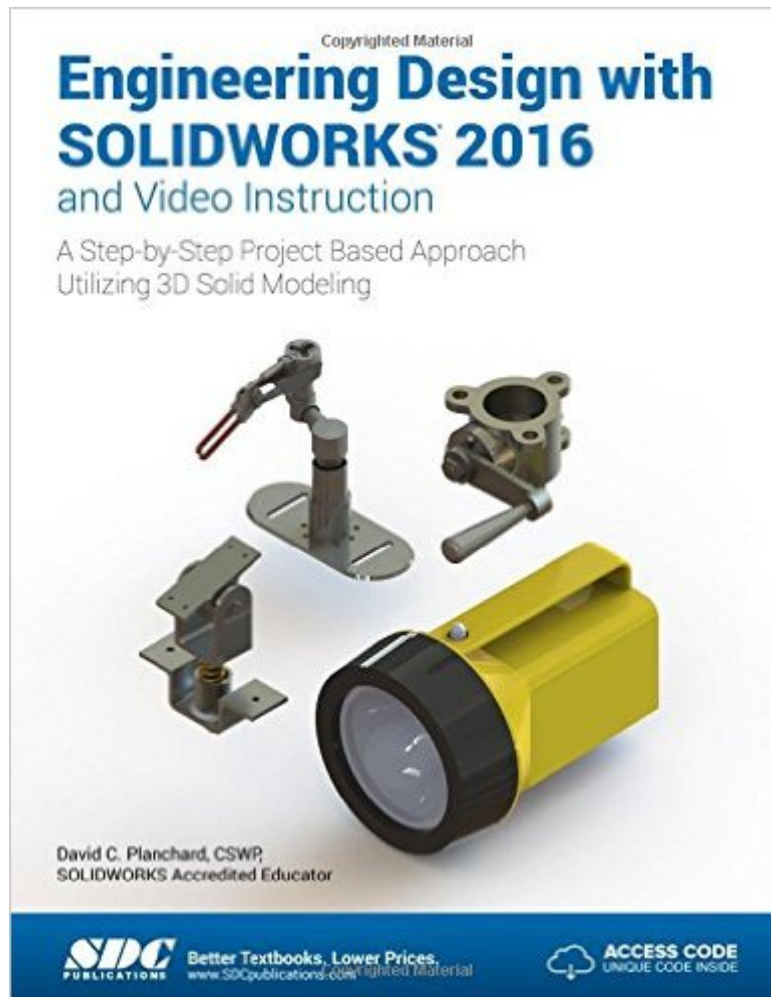


The book was found

Engineering Design With SOLIDWORKS 2016 And Video Instruction



Synopsis

Engineering Design with SOLIDWORKS 2016 and video instruction is written to assist students, designers, engineers and professionals. The book provides a solid foundation in SOLIDWORKS by utilizing projects with step-by-step instructions for the beginner to intermediate SOLIDWORKS user. Explore the user interface, CommandManager, menus, toolbars and modeling techniques to create parts, assemblies and drawings in an engineering environment. Follow the step-by-step instructions and develop multiple parts and assemblies that combine machined, plastic and sheet metal components. Formulate the skills to create, modify and edit sketches and solid features. Learn the techniques to reuse features, parts and assemblies through symmetry, patterns, copied components, Design Tables, Bills of Materials, Custom Properties and Configurations. Address various SOLIDWORKS analysis tools and Intelligent Modeling techniques along with Additive Manufacturing (3D printing). Learn by doing not just by reading. Desired outcomes and usage competencies are listed for each project. Know your objective up front. Follow the steps in Projects 1 - 9 to achieve the design goals. Review Project 10 on Additive Manufacturing (3D printing) and its benefits and features. Understand the terms and technology used in low cost 3D printers. Work between multiple documents, features, commands and custom properties that represent how engineers and designers utilize SOLIDWORKS in industry. Review individual features, commands and tools with the Video Instruction. The projects contain exercises. The exercises analyze and examine usage competencies. Collaborate with leading industry suppliers such as SMC Corporation of America, Boston Gear and 80/20 Inc. Collaborative information translates into numerous formats such as paper drawings, electronic files, rendered images and animations. On-line intelligent catalogs guide designers to the product that meets both their geometric requirements and performance functionality. The author developed the industry scenarios by combining his own industry experience with the knowledge of engineers, department managers, vendors and manufacturers. These professionals are directly involved with SOLIDWORKS every day. Their responsibilities go far beyond the creation of just a 3D model. The book is designed to compliment the SOLIDWORKS Tutorials contained in SOLIDWORKS 2016.

Table of Contents

Introduction

1. Overview of SOLIDWORKS and the User Interface

2. Fundamentals of Part Modeling

3. Fundamentals of Assembly Modeling

4. Fundamentals of Drawing

5. Extrude and Revolve Features

6. Swept, Lofted and Additional Features

7. Top Down Assembly Modeling and Sheet Metal Parts

8. SOLIDWORKS Simulation

9. Intelligent Modeling Techniques

10. Additive Manufacturing - 3D Printing

Appendix

Glossary

Index

Book Information

Perfect Paperback: 852 pages

Publisher: SDC Publications; Pap/Psc edition (December 17, 2015)

Language: English

ISBN-10: 1585039969

ISBN-13: 978-1585039968

Product Dimensions: 1.5 x 8.2 x 10.8 inches

Shipping Weight: 3.5 pounds (View shipping rates and policies)

Average Customer Review: 3.7 out of 5 stars Â Â See all reviews Â (3 customer reviews)

Best Sellers Rank: #57,456 in Books (See Top 100 in Books) #1 in Â Books > Computers & Technology > Graphics & Design > CAD > Solidworks #35 in Â Books > Computers & Technology > Graphics & Design > Computer Modelling #59 in Â Books > Arts & Photography > Architecture > Drafting & Presentation

Customer Reviews

The perfect book. The perfect way to teach a subject. First the book tells you what they are going to teach you, then you practice the various exercises and after you are finished with the " hands-on " experience then you review what you were taught.

Very good book for beginners.

This book is neither engineering and nor SolidWorks. It puts you at a position where you cannot learn SolidWorks as well as Engineering

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

Engineering Design with SOLIDWORKS 2016 and Video Instruction Engineering Design with SolidWorks 2014 and Video Instruction Official Certified SolidWorks Professional (CSWP) Certification Guide with Video Instruction: SolidWorks 2012-2014 Engineering Graphics with SOLIDWORKS 2016 and Video Instruction Engineering Graphics with SolidWorks 2015 and Video Instruction Engineering Graphics with SolidWorks 2014 and Video Instruction SOLIDWORKS 2016 Tutorial with Video Instruction SOLIDWORKS 2016 in 5 Hours with Video Instruction SolidWorks 2015 Tutorial with Video Instruction SolidWorks 2013 Tutorial with Video Instruction Certified SOLIDWORKS Expert Preparation Materials SOLIDWORKS 2016 Genetic Algorithms and Engineering Design (Engineering Design and Automation) Official Guide to Certified SolidWorks Associate Exams - CSWA, CSDA, CSWSA-FEA (SolidWorks 2015, 2014, 2013, and 2012) Official

Guide to Certified SolidWorks Associate Exams - CSWA, CSDA, CSWSA-FEA (SolidWorks 2012 - 2013) CSWE - Certified SolidWorks Expert Preparation Materials SolidWorks 2010 - 2015 Engineering Design with SolidWorks 2013 SOLIDWORKS 2016 and Engineering Graphics: An Integrated Approach Engineering Analysis with SOLIDWORKS Simulation 2016 Engineering & Computer Graphics Workbook Using SOLIDWORKS 2016 Drawing Basics and Video Game Art: Classic to Cutting-Edge Art Techniques for Winning Video Game Design

[Dmca](#)