

Download Engineering Design with SOLIDWORKS 2018 and Video Instruction free David C. Planchard CSWP (PDF, ePub, Mobi)

Engineering Design with SOLIDWORKS 2018 and Video Instruction

A Step-by-Step Project Based Approach Utilizing 3D Solid Modeling



David C. Planchard, CSWP
SOLIDWORKS Accredited Educator

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- A comprehensive introduction to SOLIDWORKS using tutorial style, step-by-step instructions
- Comes with embedded training videos demonstrating all the basic tools needed to start using SOLIDWORKS
- Designed for beginning or intermediate SOLIDWORKS users
- Learn to create parts and assemblies using machined, plastic and sheet metal components
- Also covers Simulation, Sustainability, Intelligent Modeling techniques and 3D Printing
- This edition features a new bonus chapter on the CSWA exam and an expanded section on 3D printing

Engineering Design with SOLIDWORKS 2018 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 featuring machined, plastic and sheet metal components.

Desired outcomes and usage competencies are listed for each project. The book is divided into five sections with 11 projects.

Project 1 - Project 6: Explore the SOLIDWORKS User Interface and CommandManager, Document and System properties, simple and complex parts and assemblies, proper design intent, design tables, configurations, multi-sheet, multi-view drawings, BOMs, and Revision tables using basic and advanced features. Additional techniques include the edit and reuse of features, parts, and assemblies through symmetry, patterns, configurations, SOLIDWORKS 3D ContentCentral and the SOLIDWORKS Toolbox.

Project 7: Understand Top-Down assembly modeling and Sheet Metal parts. Develop components In-Context with InPlace Mates, along with the ability to import parts using the Top-Down assembly method. Convert a solid part into a Sheet Metal part and insert and apply various Sheet Metal features.

Project 8 - Project 9: Recognize SOLIDWORKS Simulation and Intelligent Modeling techniques. Understand a general overview of SOLIDWORKS Simulation and the type of questions that are on the SOLIDWORKS Simulation Associate - Finite Element Analysis (CSWSA-FEA) exam. Apply design intent and intelligent modeling techniques in a sketch, feature, part, plane, assembly and drawing.

Project 10: Comprehend the differences between additive and subtractive manufacturing.

Understand 3D printer terminology along with a working knowledge of preparing, saving, and printing CAD models on a low cost printer.

Project 11: Review the Certified Associate - Mechanical Design (CSWA) program. Understand the curriculum and categories of the CSWA exam and the required model knowledge needed to successfully take the exam.

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.

New in the 2018 Edition

A new bonus chapter on the CSWA - Mechanical Design exam has been added to the book. Chapter 10 on additive manufacturing was updated with new vendor and technology changes.

Video Tutorials

The embedded videos cover the following topics:

- Start a SOLIDWORKS 2018 session
- Understand the SOLIDWORKS 2018 Interface
- Create 2D Sketching, Sketch Planes and use Sketch tools
- Create 3D Features and apply Design Intent
- Create an Assembly
- Create fundamental Drawings Part 1 & Part 2

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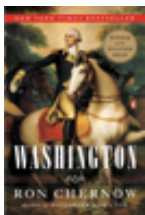
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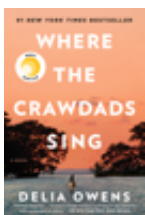
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