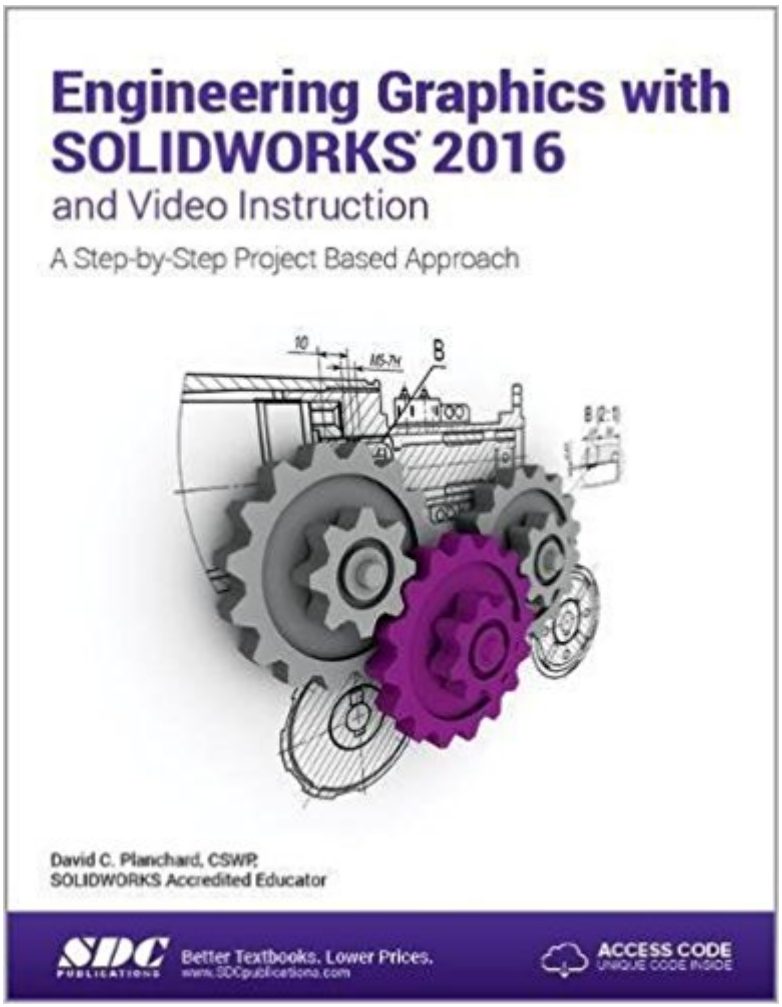
Engineering Graphics With SOLIDWORKS 2016 And Video Instruction



Synopsis

Engineering Graphics with SOLIDWORKS 2016 and video instruction is written to assist the technical school, two year college, four year university instructor/student or industry professional that is a beginner or intermediate SOLIDWORKS user. The book combines the fundamentals of engineering graphics and dimensioning practices with a step-by-step project based approach to learning SOLIDWORKS with video instructions. Learn by doing, not just by reading. The book is divided into four sections: Chapters 1 - 3 explore the history of engineering graphics, manual sketching techniques, orthographic projection, Third vs. First angle projection, multi-view drawings, dimensioning practices (ASME Y14.5-2009 standard), line type, fit type, tolerance, fasteners in general, general thread notes and the history of CAD leading to the development of SOLIDWORKS. Chapters 4 - 9 explore the SOLIDWORKS User Interface and CommandManager, Document and System properties, simple machine parts, simple and complex assemblies, proper design intent, design tables, configurations, multi-sheet, multi-view drawings, BOMs, and Revision tables using basic and advanced features. Follow the step-by-step instructions in over 80 activities to develop eight parts, four sub-assemblies, three drawings and six document templates. Chapter 10 provides a section on the Certified Associate - Mechanical Design (CSWA) program with sample exam questions and initial and final SOLIDWORKS models. Chapter 11 provides a section on Additive Manufacturing (3D printing) and its benefits and features. Understand the terms and technology used in low cost 3D printers. Review individual features, commands, and tools using the video instruction and SOLIDWORKS Help. The chapter exercises analyze and examine usage competencies based on the chapter objectives. The book is designed to complement the SOLIDWORKS Tutorials located in the SOLIDWORKS Help menu. Desired outcomes and usage competencies are listed for each project. Know your objectives up front. Follow the step-by step procedures to achieve your design goals. Work between multiple documents, features, commands, and properties that represent how engineers and designers utilize SOLIDWORKS in industry. 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. Table of Contents Introduction 1. History of Engineering Graphics 2. Isometric Projection and Multi View Drawings 3. Dimensioning Practices, Scales, Tolerancing and Fasteners 4. Overview of SOLIDWORKS and the User Interface 5. Introduction to SOLIDWORKS Part Modeling 6. Revolved Boss/Base Features 7. Swept, Lofted, Rib, Mirror and Additional Features 8. Assembly Modeling - Bottom up method 9. Fundamentals of Drawing 10. Introduction to the

Certified Associate - Mechanical Design (CSWA) Exam 11. Additive Manufacturing - 3D Printing Appendix Index

Book Information

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Customer Reviews

David Planchard is the founder of D&M Education LLC. Before starting D&M Education, he spent over 27 years in industry and academia holding various engineering, marketing, and teaching positions. He holds five U.S. patents. He has published and authored numerous papers on Machine Design, Product Design, Mechanics of Materials, and Solid Modeling. He is an active member of the SOLIDWORKS Users Group and the American Society of Engineering Education (ASEE). David holds a BSME, MSM with the following professional certifications: CCAI, CCNP, CSDA, CSWSA-FEA, CSWP, CSWP-DRWT and SOLIDWORKS Accredited Educator. David is a SOLIDWORKS Solution Partner, an Adjunct Faculty member and the SAE advisor at Worcester Polytechnic Institute in the Mechanical Engineering department. In 2012, David s senior Major Qualifying Project team (senior capstone) won first place in the Mechanical Engineering department at WPI. In 2014 and 2015, David s senior Major Qualifying Project team won the Provost award in Mechanical Engineering for design excellence. David Planchard is the author of the following books: SOLIDWORKS 2016 Reference Guide with Video Instruction, 2015, 2014 2013, 2012, 2011, 2010, 2009 and 2008 Engineering Design with SOLIDWORKS 2016 and Video Instruction, 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2001Plus, 2001 and 1999 Engineering Graphics with SOLIDWORKS 2016 and Video Instruction, 2015, 2014, 2013, 2012,

2011, 2010 SOLIDWORKS 2016 in 5 Hours with Video Instruction, 2015, 2014 SOLIDWORKS 2016 Tutorial with Video Instruction, 2015,2014, 2013, 2012, 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003 and 2001/2001Plus Drawing and Detailing with SOLIDWORKS 2014, 2012, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002 and 2001/2001Plus Official Certified SOLIDWORKS Professional (CSWP) Certification Guide with Video Instruction, Version 3: 2014-2012 Version 2, 2013-2012; Version 1, 2011, 2010 Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSDA, CSWSA-FEA Version 2: 2015 - 2012, Version 1: 2013, 2012 Assembly Modeling with SOLIDWORKS 2012, 2010, 2008, 2006, 2005-2004, 2003 and 2001Plus Applications in Sheet Metal Using Pro/SHEETMETAL & Pro/ENGINEER

great seller. AAAA+++

School book, what can I say....

very good

The only reason I bought this book was my professor required it. I would have thought the book would give a clear explanation of how do each function, and at first glance, it appears it does. The problem with the book is that it goes into too much detail that is very difficult to follow. You can learn much quicker and easier on youtube. In my opinion, this book would be fine if it was in the $15-20 range, but it is seriously overpriced.

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.

Engineering Graphics Essentials with AutoCAD 2017 Instruction A Practical Guide to Graphics Reporting: Information Graphics for Print, Web & Broadcast SOLIDWORKS 2016 Learn by doing-Part 1: Parts, Assembly, Drawings, and Sheet metal SOLIDWORKS 2016 Basic Tools Beginner's Guide to SOLIDWORKS 2016 - Level I Introduction to Solid Modeling Using SolidWorks 2016 SOLIDWORKS 2016 for Designers, 14th Edition The Groom's Instruction Manual: How to Survive and Possibly Even Enjoy the Most Bewildering Ceremony Known to Man (Owner's and Instruction Manual) The Newlywed's Instruction Manual: Essential Information, Troubleshooting Tips, and Advice for the First Year of Marriage (Owner's and Instruction Manual) The Bride's Instruction Manual: How to Survive and Possibly Even Enjoy the Biggest Day of Your Life (Owner's and Instruction Manual)