

Engineering Graphics with SolidWorks 2010 and Multimedia CD

By David C. Planchard, Marie P. Planchard

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Engineering Graphics with SolidWorks 2010 is written to assist a technical school, two year college, four year university instructor/student or industrial 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 an enclosed 1.5 hour multimedia CD. Learn by doing, not just reading!

The book is divided into two parts: Engineering Graphics and SolidWorks 3D CAD Software. In chapter 1 through chapter 3, you explore the history of engineering graphics, manual sketching techniques, orthographic projection, isometric projection, multi-view drawings, dimensioning practices and the history of CAD leading to the development of SolidWorks.

In chapter 4 through chapter 8, you apply engineering graphics fundamentals and learn the SolidWorks User Interface, Document and System properties, simple parts, simple and complex assemblies, design tables, configurations, multi-sheet, multi-view drawings, Bill of Materials, Revision tables, basic and advanced features. Follow the step-by-step instructions in over 70 activities to develop eight parts, four sub-assemblies, three drawings, and sex document properties. Formulate the skills to create and modify solid features to model a 3D FLASHLIGHT assembly. Chapter 9 provides a bonus section on the Certified SolidWorks Associate CSWA program with sample exam questions and initial and final SolidWorks Models. Passing the CSWA exam proves to employers that you have the necessary fundamental engineering graphics and SolidWorks competencies.

Review individual features, commands, and tools for each project with the book's 1.5 hour multimedia CD and SolidWorks Help. The project exercises analyze and examine usage competencies based on the project objectives. The book is designed to compliment the SolidWorks Tutorials located in the SolidWorks Help menu. Each section explores the SolidWorks Online User's Guide to build you working knowledge of SolidWorks.

Desired outcomes and usage competencies are listed for each project. Know you

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 authors developed the industry scenarios by combining their 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.

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Editorial Review

About the Author
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 and degrees. He holds five U.S. patents and one International patent. 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, CCNA, CCNP, and CSWA. David is a SolidWorks Solution Partner and an Adjunct Faculty member at Worcester Polytechnic Institute in the Mechanical Engineering department.

Marie Planchard is the Director of World Education Markets at SolidWorks Corporation. Before she joined SolidWorks, Marie spent over 10 years as an engineering professor at Mass Bay College in Wellesley Hills, MA. She has 14 plus years of industry software experience and held a variety of management and engineering positions. Marie holds a BSME, MSME and a Certified SolidWorks Professional (CSWP) Certification. She is an active member of the American Society of Mechanical Engineers (ASME) and the American Society for Engineering Education (ASEE).

David and Marie Planchard are co-authors of the following books:

- A Commands Guide for SolidWorks 2010, 2009, 2008, and 2007
- Assembly Modeling with SolidWorks 2010, 2008, 2006, 2005-2004, 2003 and 2001Plus
- Drawing and Detailing with SolidWorks 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002 and 2001/2001Plus
- Engineering Design with SolidWorks with Multimedia CD 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2001Plus, 2001 and 1999
- Engineering Graphics with SolidWorks 2010 with Multimedia CD
- SolidWorks: The Basics with Multimedia CD 2009, 2008, 2007, 2006, 2005, 2004 and 2003
- SolidWorks Tutorial with Multimedia CD 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003 and 2001/2001Plus
- The Fundamentals of SolidWorks: Featuring the VEXplorer robot, 2008 and 2007
- Official Certified SolidWorks Associate Examination Guide, Version 2, Version 1
- Applications in Sheet Metal Using Pro/SHEETMETAL & Pro/ENGINEER

Users Review

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