



SolidWorks 2010 Tutorial with Multimedia CD

By David C. Planchard, Marie P. Planchard

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SolidWorks 2010 Tutorial with Multimedia CD is written for students and instructors in a technical school, community college, college or university and also designers, engineers, and industry professionals that want to learn how to design with SolidWorks. Developed for the beginner to intermediate SolidWorks user, the book provides you a step-by-step project based approach to learning SolidWorks with 1.5 hours of video instruction and hundreds of SolidWorks models on the enclosed CD.

The Book is divided into two sections. Chapter one through six explore the SolidWorks User Interface and CommandManager, Document and System properties, simple machine parts, simple and complex assemblies, design tables, configurations, multi-sheet, multi-view drawings, BOMs and Revision tables using basic and advanced features.

Follow the step-by-step instructions and develop multiple assemblies that combine over 80 extruded machined parts and 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, copies components, design tables and configurations. Explore SolidWorks SimulationXpress, an introduction to Finite Element Analysis (FEA), SolidWorks SustainabilityXpress, an introduction to Life Cycle Assessment, and DFMXpress, an introduction to design for manufacturability. Learn by doing, not just reading!

Chapter seven through chapter eleven prepares you for the Certified SolidWorks Associate Exam (CSWA). The CSWA certification indicates a foundation in and apprentice knowledge of 3D CAD and engineering practices and principles. Follow the steps in these chapters to assist you in learning the skills required to pass the CSWA.

Desired outcomes and usage competencies are listed for each project. Know your objectives up front. Follow the step in each project to achieve your design goals. Work between multiple documents, features, commands, custom properties and document properties that represent how engineers and designers utilize SolidWorks in industry.

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Appendix

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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

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