



Engineering Design with SolidWorks 2010 and Multimedia CD

David C. Planchard, Marie P. Planchard

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Engineering Design with SolidWorks 2010 and Multimedia CD David C. Planchard, Marie P. Planchard
Engineering Design with SolidWorks 2010 & Multi-media CD 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 beginning 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, Properties and Configurations. Address various SolidWorks analysis tools: SimulationXpress, SustainabilityXpress and DFMXpress. 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 Project 1 through Project 7 to achieve the design goals. 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 for each project with the enclosed Multi-media CD. Each project contains 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 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 everyday. This book is designed to compliment the SolidWorks Tutorials contained in SolidWorks 2010. Separate editions of this textbook are available for SolidWorks 99, 2000, 2001, 2001Plus, 2003, 2004, 2005, 2006, 2007, 2008, and 2009.

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