



# Engineering Design with SolidWorks 2005 & MultiMedia CD

*Marie P. Planchard David C. Planchard*

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**Engineering Design with SolidWorks 2005 & MultiMedia CD** Marie P. Planchard David C. Planchard

This text focuses on providing a solid foundation in SolidWorks along with a competency based project approach. Commands are introduced in a step-by-step manner. Each chapter addresses a progressive learning approach, lists desired outcomes and usage competencies, and identifies a project with reflective information on the previous project situation. The book complements the on-line tutorials contained within SolidWorks.

Engineering Design with SolidWorks covers parts, assemblies and drawings. The part section covers all the major solid features in SolidWorks. There are 3 assemblies.

The first assembly, GUIDE-ROD utilizes industry components and simple extruded parts. Individual part drawings and assembly drawings with Bill of Materials are developed for the GUIDE-ROD assembly.

The FLASHLIGHT assembly utilizes 8 parts made up of Extrude, Revolve, Sweep and Loft features. The parts are combined into small subassemblies and the final FLASHLIGHT assembly.

The BOX assembly utilizes a top down assembly modeling approach with layout sketches and parts developed in context. The BOX works through sheet metal features and introduces design tables and configurations.

This edition covers enhancements to the User Interface section, Design Intent area and Sheet Metal features.

The Multimedia CD includes 4 hours of movie files, 1/2 hour on individual feature tips and creation.

New in Engineering Design with SolidWorks 2005:

Updated for SolidWorks 2005 and SolidWorks 2005/2006 Educational Edition focusing on machined, plastic and sheet metal parts, assemblies and drawings.

New activity layout to distinguish step-by-step instructions in the text.

New instructions utilizing Mold Tools to modify plastic parts and to develop a cavity mold for the Batteryplate part.

New flash movies for Mold Tools and MoldflowXpress on the MultiMedia CD.

New math exercises on the Instructor's CD for Science, Technology Engineering and Math (STEM) programs including examples in algebra, geometry, vectors and calculus.

New flash movies on the Instructor's CD to summarize the differences between SolidWorks 2004/2005 Education Edition and SolidWorks 2005/2006 Education Edition.

Separate editions of this textbook are available for SolidWorks 99, 2000, 2001, 2001Plus, 2003, 2004 and 2006.

**Table of Contents**

1. Fundamentals of Part Modeling
2. Fundamentals of Assembly Modeling
3. Fundamentals of Drawing
4. Extrude and Revolve Features
5. Sweep and Loft and Additional Features
6. Top Down Assembly Modeling

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