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# Engineering Graphics With SolidWorks 2014 And Video Instruction



## Synopsis

Engineering Graphics with SolidWorks 2014 and Video Instruction is written to assist 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 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, 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. 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 80 activities to develop eight parts, four sub-assemblies, three drawings, and six document templates. Formulate the skills to create and modify solid features to model a FLASHLIGHT assembly. Chapter 9 provides a bonus section on the Certified Associate - Mechanical Design (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 using the video instruction and SolidWorks Help. The chapter exercises analyze and examine usage competencies based on the project 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 History of Engineering Graphics Isometric Projection and Multi View Drawings Dimensioning Practices, Scales, Tolerancing and Fasteners Introduction to SolidWorks Part Modeling Revolved Features Swept, Lofted, and Additional Features Assembly Modeling Fundamentals of Drawing Introduction to the Certified

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## Customer Reviews

This is an excellent resource for any beginner learning SolidWorks along with the SolidWorks Tutorial book. Both books are clear, concise, and well illustrated using proper traditional design techniques. Presently; I'm using the SolidWorks Tutorial book but I think I will switch to this one. It's amazing to me the amount of useful information in these books. Both have great step-bystep procedures with support materials for the instructor. The new videos are great. There are separate videos on the interface, sketching, part, assembly and drawing creation. For the price and quality, you can not beat it!

Excellent price and quality that didn't reek of college bookstore highway robbery via \$75+ textbook for something new.

Using it for solidworks class, its great , also great for learning by yourself as well

Very informative step by step directions that build towards a fairly complicated final project.

Ok. On time delivered

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