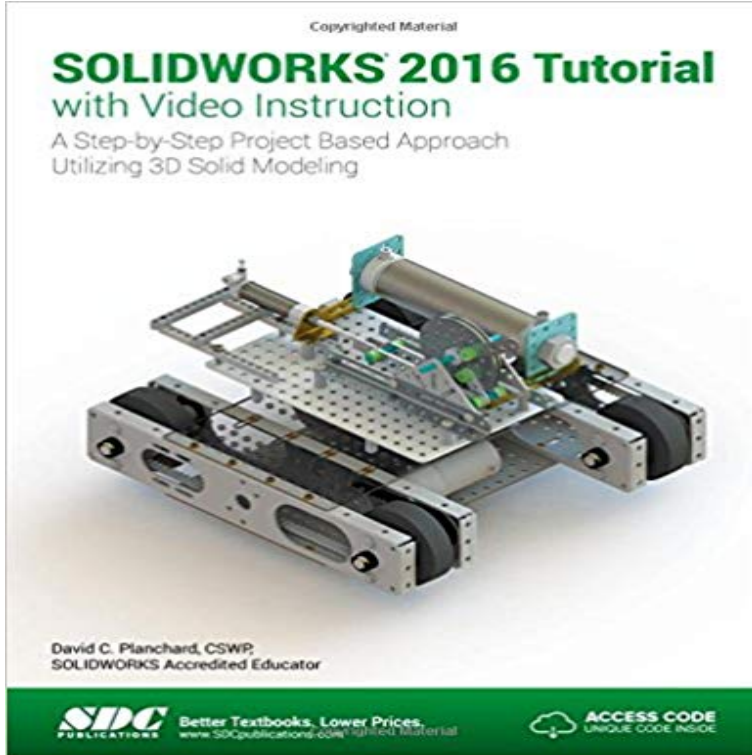


SOLIDWORKS 2016 Tutorial with Video Instruction



NOTE: This title does not have a CD with it. The videos can be downloaded from our website using the access code on the inside front cover of the book. Instructions for download are also included on the inside front cover. SOLIDWORKS 2016 Tutorial with video instruction is targeted towards a technical school, two year college, four year university or industry professional that is a beginner or intermediate CAD user. The text provides a student who is looking for a step-by-step project based approach to learning SOLIDWORKS with video instruction, SOLIDWORKS model files, and preparation for the Certified Associate - Mechanical Design (CSWA) exam. The book is divided into three sections. Chapters 1 - 6 explore the SOLIDWORKS User Interface and CommandManager, Document and System properties, simple machine parts, simple and complex assemblies, proper design intent, design tables, configurations, multi-sheet, multi-view drawings, BOMs, Revision tables using basic and advanced features. Chapters 7 - 10 prepare you for the Certified Associate - Mechanical Design (CSWA) exam. The certification indicates a foundation in and apprentice knowledge of 3D CAD and engineering practices and principles. Review Chapter 11 on Additive Manufacturing (3D printing) and its benefits and features. Understand the terms and technology used in low cost 3D printers. Follow the step-by-step instructions and develop multiple assemblies that combine over 100 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, copied components, apply proper design intent, design tables and configurations. Learn by doing not just by reading. Desired outcomes and usage competencies are listed for each chapter. Know your

objective up front. Follow the steps in each chapter 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. Table of Contents Introduction 1. Overview of SOLIDWORKS and the User Interface 2. Parts and Assembly Creation 3. Front Support Assembly 4. Fundamentals of Drawing 5. Advanced Features 6. Pneumatic Test Module and Final Robot Assembly 7. Introduction to the Certified Associate - Mechanical Design (CSWA) Exam and Drafting Competencies 8. CSWA Basic & Intermediate Part Creation and Modification 9. CSWA Advanced Part Creation and Modification 10. CSWA - Assembly Creation and Modification 11. Additive Manufacturing - 3D Printing Appendix Glossary Index

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