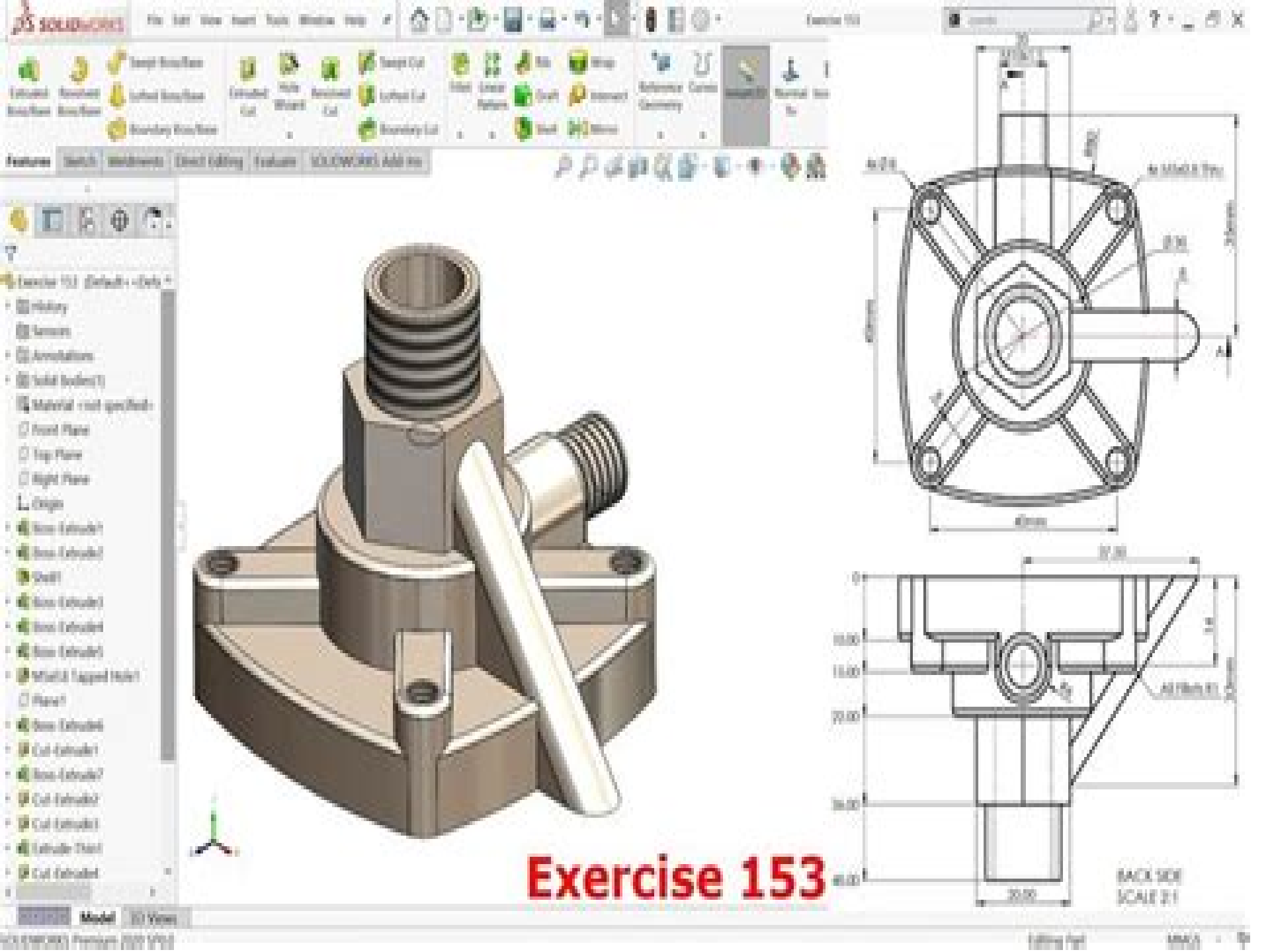




Solidworks Tutorials Guide For Part Modelling And Assembling

David C. Planchard, Marie P. Planchard



Solidworks Tutorials Guide For Part Modelling And Assembling:

Commands Guide Tutorial for SolidWorks 2013 David C. Planchard, Marie P. Planchard, 2012-12-27 The Commands Guide Tutorial for SolidWorks 2013 is a comprehensive reference book written to assist the beginner to intermediate user of SolidWorks 2013. SolidWorks is an immense software package and no one book can cover all topics for all users. This book provides a centralized reference location to address many of the tools, features, and techniques of SolidWorks 2013. This book covers the following: System and Document properties, FeatureManagers, PropertyManagers, ConfigurationManagers, RenderManagers, 2D and 3D Sketch tools, Sketch entities, 3D Feature tools, Motion Study, Sheet Metal, Motion Study, Sustainability, Sustainability Xpress, FlowXpress, PhotoView, 360 Pack and Go, Intelligent Modeling techniques, and more. Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SolidWorks 2013 software. If you are completely new to SolidWorks, you should read Chapter 1 in detail and complete Lesson 1, Lesson 2, and Lesson 3 in the SolidWorks Tutorials. If you are familiar with an earlier release of SolidWorks, you still might want to skim Chapter 1 to become acquainted with some of the commands, menus, and features that you have not used, or you can simply jump to any section in any chapter. Each chapter (18 total) provides detailed PropertyManager information on key topics with individual stand-alone short tutorials to reinforce and demonstrate the functionality and ease of the SolidWorks tool or feature. All models for the 240 plus tutorials are located on the enclosed book CD with their solution initial and final. Learn by doing, not just by reading. 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, configurations, and more. The book is designed to compliment the Online Tutorials and Online Help contained in SolidWorks 2013. The goal is to illustrate how multiple design situations and systematic steps combine to produce successful designs. The authors developed the tutorials by combining their own industry experience with the knowledge of engineers, department managers, professors, vendors, and manufacturers. These professionals are directly involved with SolidWorks everyday. Their responsibilities go far beyond the creation of just a 3D model.

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Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSWA-SD, CSWSA-FEA, CSWA-AM (2017-2019) David Planchard,2019-01-15 This book is written to assist you with passing the SOLIDWORKS associate level exams It provides you with detailed information and exercises that will aid you in passing the following exams Certified SOLIDWORKS Associate CSWA Certified SOLIDWORKS Associate Sustainable Design CSWA SD Certified SOLIDWORKS Simulation Associate Finite Element Analysis CSWSA FEA and the Certified SOLIDWORKS Associate Additive Manufacturing CSWA AM exam There are three goals for this book The primary goal of this book is not only to help you pass the CSWA CSWA SD CSWSA FEA and CSWA AM exams but also to ensure that you understand and comprehend the concepts and implementation details of the four certification processes The second goal is to provide the most comprehensive coverage of CSWA CSWA SD CSWSA FEA and CSWA AM exam related topics available without too much coverage of topics not on the exam The third and ultimate goal is to get you from where you are today to the point that you can confidently pass the CSWA CSWA SD CSWSA FEA and CSWA AM exams

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related topics available without too much coverage of topics not on the exam. The third and ultimate goal is to get you from where you are today to the point that you can confidently pass the CSWA, CSWA SD, CSWA S, and CSWA AM exams.

CSWA Exam The CSWA certification indicates a foundation in and apprentice knowledge of 3D CAD design and engineering practices and principles. The intended audience for this section of the book is anyone trying to take and pass the CSWA exam with a minimum of 6-9 months of SOLIDWORKS experience and basic knowledge of engineering fundamentals and practices. SOLIDWORKS recommends that you review their SOLIDWORKS Tutorials on Parts, Assemblies, and Drawings as a prerequisite and have at least 45 hours of classroom time learning SOLIDWORKS or using SOLIDWORKS with basic engineering design principles and practices.

CSWA SD Exam The Certified SOLIDWORKS Associate Sustainable Design (CSWA SD) certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of environmental assessment and sustainable design. This section of the book is intended for anyone interested in Sustainable design as well as life cycle assessment and trying to take and pass the CSWA SD exam. Although no hands-on usage of SOLIDWORKS is required for the CSWA SD certification exam, it is a good idea to review the SOLIDWORKS SustainabilityXpress and SOLIDWORKS Sustainability tutorials inside of SOLIDWORKS to better understand the actual workflow. The CSWA SD is based off the SOLIDWORKS Sustainable Design Guide that incorporates concepts including sustainability, environmental assessment, and life cycle impact assessment.

CSWA S Exam The Certified SOLIDWORKS Associate Simulation (CSWA S) certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of stress analysis and the Finite Element Method (FEM). The CSWA S section of the book is for anyone trying to take and pass the CSWA S with a minimum of 6-9 months of SOLIDWORKS experience and knowledge in the following areas: Engineering Mechanics, Statics, Strength of Materials, Finite Element Method, Finite Element Analysis Theory, Applied concepts in SOLIDWORKS Simulation (namely Static Analysis, Solid, Shell, and Beam elements, Connections, and Applying loads and boundary conditions and interpreting results). The purpose of this section in the book is NOT to educate a new or intermediate user on SOLIDWORKS Simulation but to cover and to inform you on the types of questions, layout, and what to expect when taking the CSWA S exam.

CSWA AM Exam The Certified SOLIDWORKS Associate Additive Manufacturing (CSWA AM) certification indicates a foundation in and apprentice knowledge of today's 3D printing technology and market. The intended audience for this section of the book is anyone trying to take and pass the CSWA AM exam and an interest in Additive Manufacturing. The CSWA AM exam is meant to be taken after the completion of the 10-part learning path located on MySOLIDWORKS.com. The CSWA AM exam fundamentally covers two 3D printing technologies: Fused Filament Fabrication (FFF) and STereoLithography (SLA). There are a few questions on Selective Laser Sintering (SLS) technology and available software-based printing aids.

Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSWA-SD, CSWA-S, CSWA-AM (SOLIDWORKS 2022 - 2025) David Planchard, 2025 Thoroughly prepares you for

the CSWA CSWA SD CSWA S and CSWA AM exams Created in collaboration with the certification team at SOLIDWORKS
Intended for anyone with 6 9 months of SOLIDWORKS experience Contains over 250 practice questions and examples as well
as exam prep to help you get certified on your first try Helps open doors to educational and career opportunities get hired
and prepare for the demands of a job This edition covers additional material on the 3DEXPERINCE Platform certification
exams Created in collaboration with the SOLIDWORKS Certification team the Official Guide to Certified SOLIDWORKS
Associate Exams CSWA CSWA SD CSWA S CSWA AM provides the most comprehensive coverage of SOLIDWORKS Associate
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S Exam The Certified SOLIDWORKS Associate Simulation CSWA S certification indicates a foundation in and apprentice knowledge of the principles of stress analysis and the Finite Element Method FEM The CSWA S section of the book is for anyone trying to take and pass the CSWA S with a minimum of 6 9 months of SOLIDWORKS experience and knowledge in the following areas Engineering Mechanics Statics Strength of Materials Finite Element Method Finite Element Analysis Theory Applied concepts in SOLIDWORKS Simulation namely Static Analysis Solid Shell and Beam elements Connections and Applying loads and boundary conditions and interpreting results The purpose of this section in the book is NOT to educate a new or intermediate user on SOLIDWORKS Simulation but to cover the types of questions layout and what to expect when taking the CSWA S exam

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which includes a significant number of pictorial descriptions of the steps that a student should follow to model parts assemble parts and produce drawings

SOLIDWORKS 2019 Reference Guide David Planchard,2018-12-05 The SOLIDWORKS 2019 Reference Guide is a comprehensive reference book written to assist the beginner to intermediate user of SOLIDWORKS 2019 SOLIDWORKS is an immense software package and no one book can cover all topics for all users This book provides a centralized reference location to address many of the tools features and techniques of SOLIDWORKS 2019 This book covers the following System and Document properties FeatureManagers PropertyManagers ConfigurationManagers RenderManagers 2D and 3D Sketch tools Sketch entities 3D Feature tools Motion Study Sheet Metal Motion Study SOLIDWORKS Simulation PhotoView 360 Pack and Go 3D PDFs Intelligent Modeling techniques 3D printing terminology and more Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SOLIDWORKS 2019 software If you are completely new to SOLIDWORKS you should read Chapter 1 in detail and complete Lesson 1 Lesson 2 and Lesson 3 in the SOLIDWORKS Tutorials If you are familiar with an earlier release of SOLIDWORKS you still might want to skim Chapter 1 to become acquainted with some of the commands menus and features that you have not used or you can simply jump to any section in any chapter Each chapter provides detailed PropertyManager information on key topics with individual stand alone short tutorials to reinforce and demonstrate the functionality and ease of the SOLIDWORKS tool or feature The book provides access to over 260 models their solutions and additional support materials Learn by doing not just by reading 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 configurations and more The book is designed to complement the Online Tutorials and Online Help contained in SOLIDWORKS 2019 The goal is to illustrate how multiple design situations and systematic steps combine to produce successful designs The author developed the tutorials by combining his own industry experience with the knowledge of engineers department managers professors vendors and manufacturers He is directly involved with SOLIDWORKS every day and his responsibilities go far beyond the creation of just a 3D model

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Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSDA, CSWSA-FEA (SOLIDWORKS 2015 - 2017) David Planchard,2017-02 The Official Guide to

Certified SOLIDWORKS Associate Exams CSWA CSDA CSWSA FEA is written to assist the SOLIDWORKS user to pass the associate level exams Information is provided to aid a person to pass the Certified SOLIDWORKS Associate CSWA Certified SOLIDWORKS Sustainable Design Associate CSDA and the Certified SOLIDWORKS Simulation Associate Finite Element Analysis CSWSA FEA exam There are three goals for this book The primary goal is not only to help you pass the CSWA CSDA and CSWSA FEA exams but also to ensure that you understand and comprehend the concepts and implementation details of the three certification processes The second goal is to provide the most comprehensive coverage of CSWA CSDA and CSWSA FEA exam related topics available without too much coverage of topics not on the exam The third and ultimate goal is to get you from where you are today to the point that you can confidently pass the CSWA CSDA and the CSWSA FEA exam The Certified SOLIDWORKS Associate CSWA certification indicates a foundation in and apprentice knowledge of 3D CAD design and engineering practices and principles Passing this exam provides students the chance to prove their knowledge and expertise and to be part of a worldwide industry certification standard The Certified SOLIDWORKS Sustainable Design Associate CSDA certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of environmental assessment and sustainable design The Certified SOLIDWORKS Simulation Associate Finite Element Analysis CSWSA FEA certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of stress analysis and the Finite Element Method FEM

SolidWorks 2013 Tutorial David C. Planchard, Marie P. Planchard, 2013 SolidWorks 2013 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 an enclosed 1 5 hour video instruction DVD SolidWorks model files and preparation for the CSWA exam The book is divided into two sections Chapters 1 7 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 Revision tables using basic and advanced features along with Intelligent Modeling Techniques SustainabilityXpress SimulationXpress and DFMXpress Chapters 8 11 prepare you for the new 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 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 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

Assembly Modeling

With Solidworks 2010 David C. Planchard, Marie P. Planchard, 2010-06-07 Assembly Modeling with SolidWorks 2010 is written to assist the beginning SolidWorks user with a few months of design experience to the intermediate SolidWorks user who desires to enhance their skill sets in assembly modeling. The book provides a solid foundation in assembly modeling using competency based projects. In step by step instructions the book provides examples to Start a SolidWorks session and to understand the following interfaces: Menu bar, toolbar, Menu bar menu, Drop down menus, Context toolbars, Consolidated drop down toolbars, System feedback icons, Confirmation Corner, Heads up View toolbar, CommandManager and more. Set System Options and Document Properties as they applied to a part and assembly template. Create new SolidWorks folder locations, Document Templates, Reference Documents and Design Library. Download components from 3D ContentCentral and rename and save components using SolidWorks Explorer. Apply the Bottom up assembly approach with two levels of configurations using the Configure component tool, the Configure dimension tool, Design Tables and the Add Configuration tool. Create new parts based on component features utilizing the Bottom up assembly approach. Apply Standard Mates, SmartMates and the Design Library Toolbox. Apply the Top down assembly approach with two levels of configurations with In Context components. Understand the following: Out of Context components, External References, InPlace Mates, redefining and replacing components and motion studies. Apply the Derived Feature, Component Pattern tool, Linear Component Pattern tool and the Mirror Component tool along with the Explode Line Sketch tool. Create a multi sheet multi view assembly drawing. Knowledge of Custom Properties in a part assembly and linked notes with the ability to incorporate configurations of an Exploded view, Bill of Materials, Revision tables and more. Address the Layout based assembly approach and Link Values and Equations to control relationships. Each chapter begins with the desired outcomes and usage competencies. Explore assembly modeling techniques through a series of design situations, industry scenarios, projects and objectives. Chapter 9 provides a bonus section on the Certified SolidWorks Associate 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. The book compliments and enhances the SolidWorks tutorials. Although over 150 SolidWorks tools and commands are utilized in Assembly Modeling with SolidWorks 2010, the book is not a reference guide. The book is a self paced tutorial in a realistic design setting. Complex models expose you to large assembly modeling techniques. You focus on the design process while learning the commands relative to assemblies. To obtain the most from this text you should be familiar with the SolidWorks User Interface or other parametric modeling software application. Your skill sets should include the ability to create simple parts, assemblies and drawings and manipulate documents through the Windows operating system. 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. They create assemblies with thousands of components and drawings with hundreds of sheets. Their

responsibilities go far beyond the creation of just a 3D model Initial and final models are provided on the CD accompanying the book *Engineering Design with SOLIDWORKS 2016 and Video Instruction* David Planchard,2015-12 Engineering Design with SOLIDWORKS 2016 and video instruction 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 beginner 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 Custom Properties and Configurations Address various SOLIDWORKS analysis tools and Intelligent Modeling techniques along with Additive Manufacturing 3D printing 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 Projects 1 9 to achieve the design goals Review Project 10 on Additive Manufacturing 3D printing and its benefits and features Understand the terms and technology used in low cost 3D printers 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 with the Video Instruction The projects contain 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 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 The book is designed to compliment the SOLIDWORKS Tutorials contained in SOLIDWORKS 2016 *SolidWorks 2016 Reference Guide* David Planchard,2015-12-16 The SOLIDWORKS 2016 Reference Guide is a comprehensive reference book written to assist the beginner to intermediate user of SOLIDWORKS 2016 SOLIDWORKS is an immense software package and no one book can cover all topics for all users This book provides a centralized reference location to address many of the tools features and techniques of SOLIDWORKS 2016 This book covers the following System and Document propertiesFeatureManagersPropertyManagersConfigurationManagersRenderManagers2D and 3D Sketch toolsSketch entities3D Feature toolsMotion StudySheet MetalMotion StudySolidWorks SimulationPhotoView 360Pack and Go3D PDFsIntelligent Modeling techniques3D printing terminology and more Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SOLIDWORKS 2016 software If you are completely new to SOLIDWORKS

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