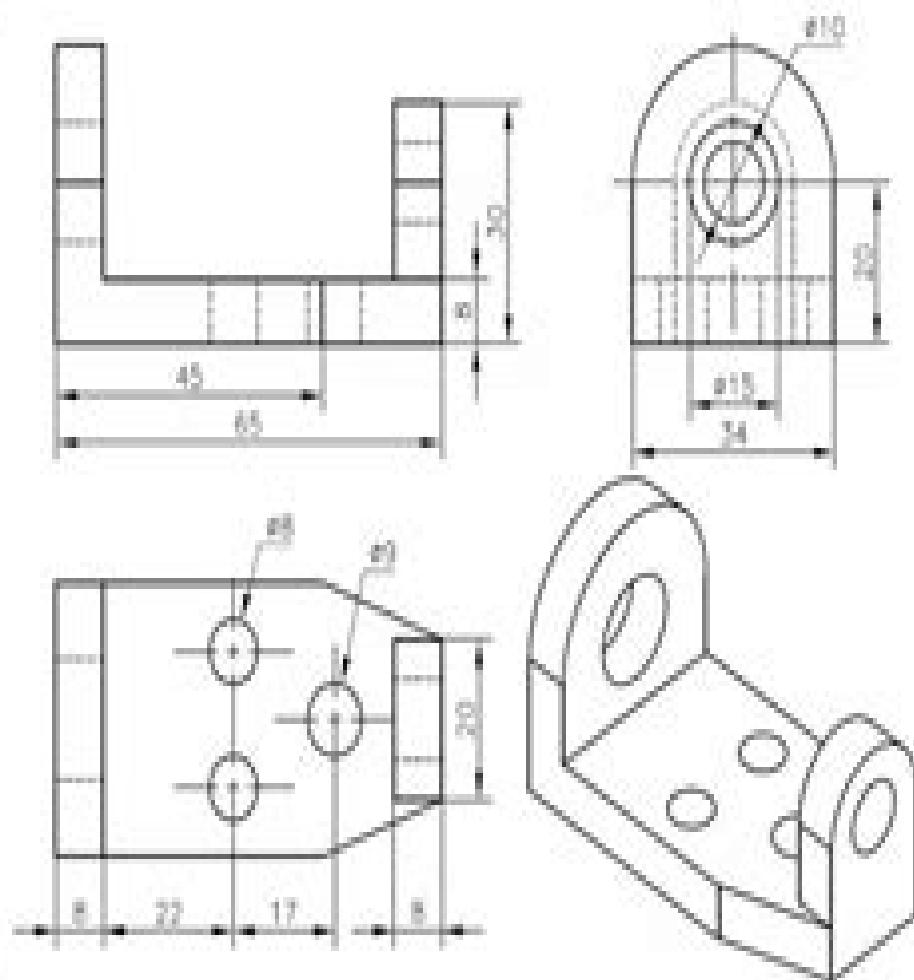
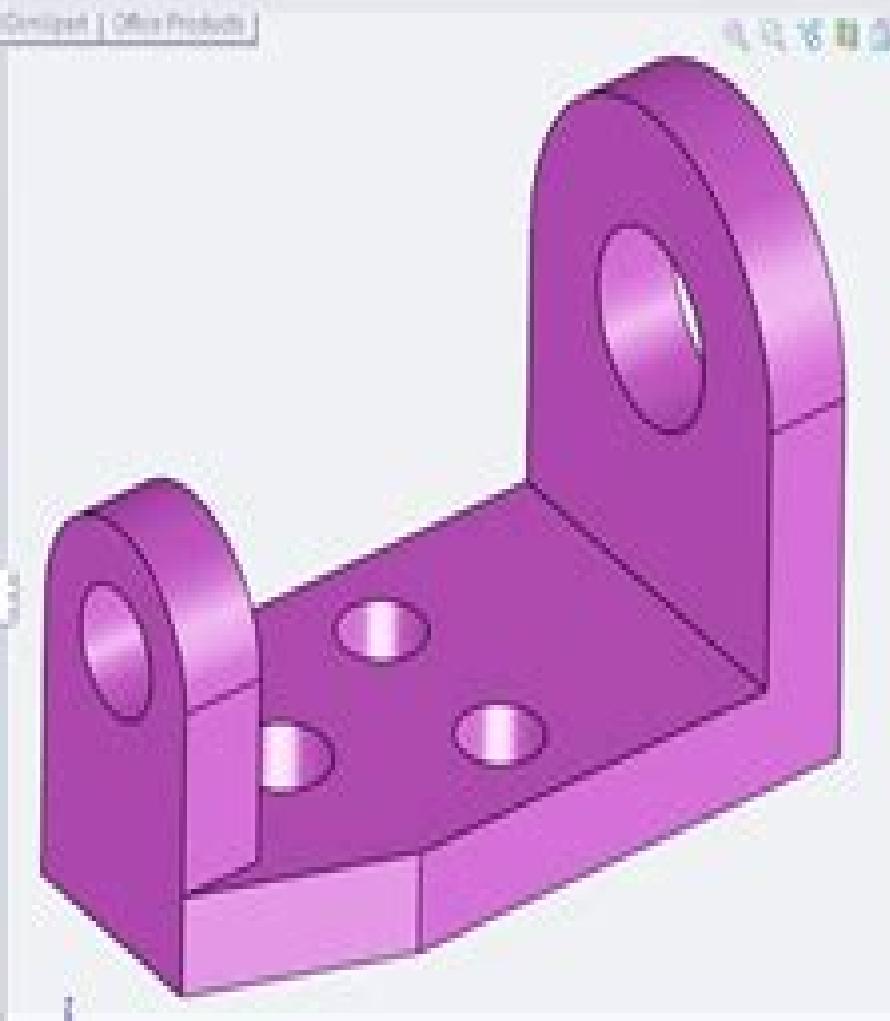


# SOLIDWORKS TUTORIAL



# Solidworks Tutorials Guide For Solid Modeling

**Alejandro Reyes**

## **Solidworks Tutorials Guide For Solid Modeling:**

**Beginner's Guide to SOLIDWORKS 2021 - Level I** Alejandro Reyes, 2021-01-29 This book is intended to help new users learn the basic concepts of SOLIDWORKS and good solid modeling techniques in an easy to follow guide that includes video instruction. It is a great starting point for those new to SOLIDWORKS or as a teaching aid in classroom training to become familiar with the software's interface basic commands and strategies as users complete a series of models while learning different ways to accomplish a particular task. At the end of this book you will have a fairly good understanding of the SOLIDWORKS interface and the most commonly used commands for part modeling assembly and detailing after completing a series of components and their 2D drawings complete with Bill of Materials. The book focuses on the processes to complete the modeling of a part instead of focusing on individual software commands or operations which are generally simple enough to learn. Throughout this book the author introduces you to new commands that are required to pass the Certified SOLIDWORKS Associate exam as listed on the SOLIDWORKS website. A dedicated chapter provides you with details about the exam as well as a practice test to help you prepare for the actual exam. SOLIDWORKS is an easy to use CAD software that includes many time saving tools that will enable new and experienced users to complete design tasks faster than before. Most commands covered in this book have advanced options which may not be covered in this book. This is meant to be a starting point to help new users to learn the basic and most frequently used commands.

**SOLIDWORKS 2025 Tutorial** David Planchard, Uses step by step project based tutorials designed for beginning or intermediate users. Will prepare you for the Certified SOLIDWORKS Associate Exam. Includes a chapter introducing you to 3D printing Features a bonus eBook on SOLIDWORKS and the 3DEXPERIENCE platform. Get ready to take your 3D CAD skills to the next level with SOLIDWORKS 2025 Tutorial. Whether you're a student designer engineer or professional who's new to SOLIDWORKS this book is the ultimate guide to mastering SOLIDWORKS impressive capabilities. And if you're preparing for the Certified SOLIDWORKS Associate Mechanical Design CSWA exam you're in luck because this book has got you covered. Featuring a project based learning approach and step by step instructions the first six chapters cover the User Interface, CommandManager, Document and System properties and beyond with exploration of everything from design intent and design tables to configurations multi sheet drawings BOMs and Revision tables. Use basic and advanced features to create simple and complex parts and assemblies. And for the grand finale chapter 6 takes you through the creation of a robot assembly complete with all the assemblies and components you'll need. Information and examples on the five categories in the CSWA exam are embedded throughout the book but chapters 7-10 specifically focus on preparation for the Certified SOLIDWORKS Associate Mechanical Design CSWA exam which will confirm you have a foundation in and apprentice knowledge of 3D CAD and engineering principles. And for those looking to explore the exciting world of additive manufacturing 3D printing chapter 11 presents the benefits of 3D printing how it differs from subtractive manufacturing and

the terminology and technology used in low cost 3D printers With clear concise instructions and desired outcomes listed for each chapter of the tutorial you ll know exactly what you re working towards every step of the way Work between multiple documents features and commands like a pro Build multiple assemblies that combine over 100 extruded machined parts and components and develop the skills to create modify and edit sketches and solid features Plus you ll learn how to reuse features parts and assemblies through symmetry patterns copied components and more Start learning by doing and become a 3D CAD expert with SOLIDWORKS 2025 Tutorial Includes a Bonus eBook Covering SOLIDWORKS and 3DEXPERIENCE Platform Included with your purchase of this book is a bonus eBook titled SOLIDWORKS and the 3DEXPERIENCE Platform This eBook is an insightful guide that introduces you to the 3DEXPERIENCE Platform and its integration with SOLIDWORKS This resource simplifies complex concepts allowing users to collaborate efficiently in a single modeling environment accessible through the SOLIDWORKS Task Pane The book features nine detailed step by step tutorials complete with models to practice and understand the tools and advantages of using SOLIDWORKS with the 3DEXPERIENCE platform This guide will help you understand the 3DEXPERIENCE Platform s capabilities demonstrating practical real world applications in educational and professional settings It s an essential resource for anyone looking to leverage the full potential of SOLIDWORKS in conjunction with the 3DEXPERIENCE platform [Engineering Design with SOLIDWORKS 2017 and Video Instruction](#) David Planchard,2017 Engineering Design with SOLIDWORKS 2017 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. He is directly involved with SOLIDWORKS every day. His responsibilities go far beyond the creation of just a 3D model. The book is designed to complement the SOLIDWORKS Tutorials contained in SOLIDWORKS.

**2017 Beginner's Guide to SolidWorks 2015 - Level I** Alejandro Reyes, 2015-01-14 This book is intended to help new users learn the basic concepts of SolidWorks and good solid modeling techniques in an easy to follow guide that includes video instruction. It is a great starting point for those new to SolidWorks or as a teaching aid in classroom training to become familiar with the software's interface basic commands and strategies as users complete a series of models while learning different ways to accomplish a particular task. At the end of this book you will have a fairly good understanding of the SolidWorks interface and the most commonly used commands for part modeling, assembly and detailing after completing a series of components and their 2D drawings complete with Bill of Materials. The book focuses on the processes to complete the modeling of a part instead of focusing on individual software commands or operations which are generally simple enough to learn. The author strived hard to include the commands required in the Certified SolidWorks Associate test as listed on the SolidWorks website as well as several more. SolidWorks is an easy to use CAD software that includes many time saving tools that will enable new and experienced users to complete design tasks faster than before. Most commands covered in this book have advanced options which may not be covered in this book. This is meant to be a starting point to help new users to learn the basic and most frequently used commands.

**Beginner's Guide to SOLIDWORKS 2017 - Level I** Alejandro Reyes, 2017-01-17 This book is intended to help new users learn the basic concepts of SOLIDWORKS and good solid modeling techniques in an easy to follow guide that includes video instruction. It is a great starting point for those new to SOLIDWORKS or as a teaching aid in classroom training to become familiar with the software's interface basic commands and strategies as users complete a series of models while learning different ways to accomplish a particular task. At the end of this book you will have a fairly good understanding of the SOLIDWORKS interface and the most commonly used commands for part modeling, assembly and detailing after completing a series of components and their 2D drawings complete with Bill of Materials. The book focuses on the processes to complete the modeling of a part instead of focusing on individual software commands or operations which are generally simple enough to learn. The author strived hard to include the commands required in the Certified SOLIDWORKS Associate and Certified SOLIDWORKS Professional Exams as listed on the SOLIDWORKS website. SOLIDWORKS is an easy to use CAD software that includes many time saving tools that will enable new and experienced users to complete design tasks faster than before. Most commands covered in this book have advanced options which may not be covered in this book. This is meant to be a starting point to help new users to learn the basic and most frequently used commands.

**Beginner's Guide to SOLIDWORKS 2018 - Level I** Alejandro Reyes, 2017-10 This book is

intended to help new users learn the basic concepts of SOLIDWORKS and good solid modeling techniques in an easy to follow guide that includes video instruction. It is a great starting point for those new to SOLIDWORKS or as a teaching aid in classroom training to become familiar with the software's interface basic commands and strategies as users complete a series of models while learning different ways to accomplish a particular task. At the end of this book you will have a fairly good understanding of the SOLIDWORKS interface and the most commonly used commands for part modeling assembly and detailing after completing a series of components and their 2D drawings complete with Bill of Materials. The book focuses on the processes to complete the modeling of a part instead of focusing on individual software commands or operations which are generally simple enough to learn. The author strived hard to include the commands required in the Certified SOLIDWORKS Associate and Certified SOLIDWORKS Professional Exams as listed on the SOLIDWORKS website.

SOLIDWORKS is an easy to use CAD software that includes many time saving tools that will enable new and experienced users to complete design tasks faster than before. Most commands covered in this book have advanced options which may not be covered in this book. This is meant to be a starting point to help new users to learn the basic and most frequently used commands. Includes Video Instruction. Each copy of this book includes access to video instruction. In these videos the author provides a visual presentation of tutorials found in the book. The videos reinforce the steps described in the book by allowing you to watch the exact steps the author uses to complete the exercises. *Introduction to Solid Modeling Using SolidWorks 2015* Joseph Musto, William Howard, 2015-05-21. The new edition of Introduction to Solid Modeling Using SolidWorks 2015 has been fully updated for the SolidWorks 2015 software package. All tutorials and figures have been modified for the new version of the software. The eleventh edition of this text primarily consists of chapter long tutorials which introduce both basic concepts in solid modeling and more advanced applications of solid modeling in engineering analysis and design. Each tutorial is organized as keystroke level instructions designed to teach the use of the software. While these tutorials offer a level of detail appropriate for new professional users this text was developed to be used as part of an introductory engineering course taught around the use of solid modeling as an integrated engineering design and analysis tool. Features such as Design Intent Boxes and Future Study Boxes help to integrate the concepts learned in solid modeling into the overall study of engineering. Additional resources are also available with this text at [www.mhhe.com/howard2015](http://www.mhhe.com/howard2015). Included on the website are tutorials for three popular SolidWorks Add Ins SolidWorks Simulation SolidWorks Motion and PhotoView 360 and the book figures in PowerPoint format. Instructors can also access PowerPoint files for each chapter and model files for all tutorials and end of chapter problems as well as a teaching guide. **Beginner's Guide to SolidWorks 2014 - Level I** Alejandro Reyes, 2014-02-26. This book is intended to help new users learn the basic concepts of SolidWorks and good solid modeling techniques in an easy to follow guide that includes video instruction. It is a great starting point for those new to SolidWorks or as a teaching aid in classroom training to become familiar with the software's interface basic commands and

strategies as the user completes a series of models while learning different ways to accomplish a particular task. At the end of this book you will have a fairly good understanding of the SolidWorks interface and the most commonly used commands for part modeling assembly and detailing after completing a series of components and their 2D drawings complete with Bill of Materials. The book focuses on the processes to complete the modeling of a part instead of focusing on individual software commands or operations which are generally simple enough to learn. The author strived hard to include the commands required in the Certified SolidWorks Associate test as listed on the SolidWorks website as well as several more. SolidWorks is an easy to use CAD software that includes many time saving tools that will enable new and experienced users to complete design tasks faster than before. Most commands covered in this book have advanced options which may not be covered in this book. This is meant to be a starting point to help new users to learn the basic and most frequently used commands.

*Beginner's Guide to SOLIDWORKS 2022 - Level I* Alejandro Reyes, 2022 This book is intended to help new users learn the basic concepts of SOLIDWORKS and good solid modeling techniques in an easy to follow guide that includes video instruction. It is a great starting point for those new to SOLIDWORKS or as a teaching aid in classroom training to become familiar with the software's interface basic commands and strategies as users complete a series of models while learning different ways to accomplish a particular task. At the end of this book you will have a fairly good understanding of the SOLIDWORKS interface and the most commonly used commands for part modeling assembly and detailing after completing a series of components and their 2D drawings complete with Bill of Materials. The book focuses on the processes to complete the modeling of a part instead of focusing on individual software commands or operations which are generally simple enough to learn. Throughout this book the author introduces you to new commands that are required to pass the Certified SOLIDWORKS Associate exam as listed on the SOLIDWORKS website. A dedicated chapter provides you with details about the exam as well as a practice test to help you prepare for the actual exam. SOLIDWORKS is an easy to use CAD software that includes many time saving tools that will enable new and experienced users to complete design tasks faster than before. Most commands covered in this book have advanced options which may not be covered in this book. This is meant to be a starting point to help new users to learn the basic and most frequently used commands. Includes Video Instruction. Each copy of this book includes access to video instruction. In these videos the author provides a clear presentation of tutorials found in the book. The videos reinforce the steps described in the book by allowing you to watch the exact steps the author uses to complete the exercises while he provides additional details along the way. Captioned versions of these videos are also available for customers who want or need video captions.

**SolidWorks 2014 Reference Guide** David Planchard, 2014 The SolidWorks 2014 Reference Guide is a comprehensive reference book written to assist the beginner to intermediate user of SolidWorks 2014. 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 2014. Chapter 1 provides a basic overview of the

concepts and terminology used throughout this book using SolidWorks 2014 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 Videos are provided to introduce the new user to the basics of using SolidWorks 3D CAD software 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 standalone 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 2014 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

### **Beginner's Guide to SOLIDWORKS**

**2023 - Level I** Alejandro Reyes, 2023-05-04 Designed to teach new users the basic concepts of SOLIDWORKS and good solid modeling techniques Uses a task oriented approach to learning SOLIDWORKS Focuses on the processes to complete the modeling of a part instead of individual commands Includes access to extensive video instruction Covers commands found on the CSWA exam and includes a practice test This edition features expanded content covering the CSWA exam This book is intended to help new users learn the basic concepts of SOLIDWORKS and good solid modeling techniques in an easy to follow guide that includes video instruction It is a great starting point for those new to SOLIDWORKS or as a teaching aid in classroom training to become familiar with the software's interface basic commands and strategies as users complete a series of models while learning different ways to accomplish a particular task At the end of this book you will have a fairly good understanding of the SOLIDWORKS interface and the most commonly used commands for part modeling assembly and detailing after completing a series of components and their 2D drawings complete with Bill of Materials The book focuses on the processes to complete the modeling of a part instead of focusing on individual software commands or operations which are generally simple enough to learn Throughout this book the author introduces you to new commands that are required to pass the Certified SOLIDWORKS Associate exam as listed on the SOLIDWORKS website A dedicated chapter provides you with details about the exam as well as a practice test to help you prepare for the actual exam SOLIDWORKS is an easy to use CAD software that includes many time saving tools that will enable new and experienced users to complete design tasks faster than before Most commands covered in this book have advanced options which may not be covered in this book This is

meant to be a starting point to help new users to learn the basic and most frequently used commands. Includes Video Instruction. Each copy of this book includes access to video instruction. In these videos the author provides a clear presentation of tutorials found in the book. The videos reinforce the steps described in the book by allowing you to watch the exact steps the author uses to complete the exercises while he provides additional details along the way. Captioned versions of these videos are also available for customers who want or need video captions.

*Introduction to Solid Modeling Using SolidWorks* William E. Howard, Joseph C. Musto, 2006. Geared toward an introductory course in solid modeling. *Introduction to Solid Modeling Using SolidWorks* by Edward Howard and Joseph Musto of East Carolina University and the Milwaukee School of Engineering respectively teaches solid modeling using SolidWorks. The text presents solid modeling not just as a communication tool but as an integral part of the design process. To this end the book explores design intent the use of solid models in engineering analysis and introduces techniques from manufacturing such as mold design and sheet metal patterning. Howard and Musto provide a student friendly presentation filled with easy to use tutorials. Their approach is also designed to help students understand how engineering is used in the real world. For instance modeling exercises are largely centered on examples drawn from industrial applications. As well Future Study boxes introduce students to different topics they will study in their engineering programs.

*A Commands Guide Tutorial for SolidWorks 2007* David C. Planchard, Marie P. Planchard, 2007.

*ANSYS Mechanical APDL for Finite Element Analysis* Mary Kathryn Thompson, John Martin Thompson, 2017-07-28. ANSYS Mechanical APDL for Finite Element Analysis provides a hands on introduction to engineering analysis using one of the most powerful commercial general purposes finite element programs on the market. Students will find a practical and integrated approach that combines finite element theory with best practices for developing, verifying, validating and interpreting the results of finite element models while engineering professionals will appreciate the deep insight presented on the program's structure and behavior. Additional topics covered include an introduction to commands, input files, batch processing and other advanced features in ANSYS. The book is written in a lecture/lab style and each topic is supported by examples, exercises and suggestions for additional readings in the program documentation. Exercises gradually increase in difficulty and complexity helping readers quickly gain confidence to independently use the program. This provides a solid foundation on which to build preparing readers to become power users who can take advantage of everything the program has to offer. Includes the latest information on ANSYS Mechanical APDL for Finite Element Analysis. Aims to prepare readers to create industry standard models with ANSYS in five days or less. Provides self study exercises that gradually build in complexity helping the reader transition from novice to mastery of ANSYS. References the ANSYS documentation throughout focusing on developing overall competence with the software before tackling any specific application. Prepares the reader to work with commands, input files and other advanced techniques.

**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 [Product Design Modeling using CAD/CAE](#) Kuang-Hua Chang,2014-01-20 Product Design Modeling using CAD CAE is the third part of a four part series It is the first book to integrate discussion of computer design tools throughout the design process Through this book you will Understand basic design principles and all digital design paradigms Understand computer aided design engineering and manufacturing CAD CAE CAM tools available for various design related tasks Understand how to put an integrated system together to conduct all digital design ADD Provides a comprehensive and thorough coverage of essential elements for product modeling using the virtual engineering paradigm Covers CAD CAE in product design including solid modeling mechanical assembly parameterization product data management and data exchange in CAD Case studies and tutorial examples at the end of each chapter provide hands on practice in implementing off the shelf computer design tools Provides two projects showing the use of Pro ENGINEER and SolidWorks to implement concepts discussed in the book [Learn SOLIDWORKS 2020](#) Tayseer Almattar,2019-12-02 Explore a practical and example driven approach to understanding SOLIDWORKS 2020 and achieving

CSWA and CSWP certification Key FeaturesGain comprehensive insights into the core aspects of mechanical part modelingGet up to speed with generating assembly designs with both standard and advanced matesFocus on design practices for both 2D as well as 3D modeling and prepare to achieve CWSP and CWSA certificationBook Description SOLIDWORKS is the leading choice for 3D engineering and product design applications across industries such as aviation automobiles and consumer product design This book takes a practical approach to getting you up and running with SOLIDWORKS 2020 You ll start with the basics exploring the software interface and working with drawing files The book then guides you through topics such as sketching building complex 3D models generating dynamic and static assemblies and generating 2D engineering drawings to equip you for mechanical design projects You ll also do practical exercises to get hands on with creating sketches 3D part models assemblies and drawings To reinforce your understanding of SOLIDWORKS the book is supplemented by downloadable files that will help you follow up with the concepts and exercises found in the book By the end of this book you ll have gained the skills you need to create professional 3D mechanical models using SOLIDWORKS and you ll be able to prepare effectively for the Certified SOLIDWORKS Associate CSWA and Certified SOLIDWORKS Professional CSWP exams What you will learnUnderstand the fundamentals of SOLIDWORKS and parametric modelingCreate professional 2D sketches as bases for 3D models using simple and advanced modeling techniquesUse SOLIDWORKS drawing tools to generate standard engineering drawingsEvaluate mass properties and materials for designing parts and assembliesUnderstand the objectives and the formats of the CSWA and CSWP examsDiscover expert tips and tricks to generate different part and assembly configurations for your mechanical designsWho this book is for This book is for aspiring engineers designers drafting technicians or anyone looking to get started with the latest version of SOLIDWORKS Anyone interested in becoming a Certified SOLIDWORKS Associate CSWA or Certified SOLIDWORKS Professional CSWP will also find this book useful Mastering SolidWorks Ibrahim Zeid,2021-05-12 Revised and Updated The Definitive Hands On Guide to Solid Modeling with SolidWorks 2021 Fully updated for SolidWorks 2021 Mastering SolidWorks Third Edition thoroughly illuminates solid modeling CAD techniques for developing parts assemblies and drawings Additional specializations SolidWorks toolboxes and manufacturing techniques are also covered including sheet metal injection molding and animation New illustrations reflect SolidWorks 2021 throughout and this edition fully reflects changes in workflow since SolidWorks 2014 Mastering SolidWorks can develop CAD skills in students with little or no solid modeling expertise help more advanced students hone specialized skills and prepare any SolidWorks user for SolidWorks Associate CSWA or Professional CSWP certification Written especially for beginners and intermediate users it will also be valuable to experienced users requiring specialized knowledge to companies training their own professionals and to all schools teaching engineering design or 3D modeling Understand SolidWorks as a powerful design manufacturing system not just a piece of software Learn key modeling concepts for working efficiently avoiding errors and transferring your skills

anywhere Rapidly create assemble document and visualize parts Embed design intelligence to make parts easier to edit and manufacture Master part modeling from basic features drawings and assemblies to advanced curves surfaces and sustainable designs Develop and analyze parts using tolerances and SolidWorks analysis tools Manufacture parts with rapid prototyping numerical control machining and injection molding    **Advanced Building Materials and Structural Engineering** B.

Xu,H.Y. Li,2012-02-10 Selected peer reviewed papers from the 2012 International Conference on Building Materials and Structural Engineering BMSE 2012 March 19 20 2012 Wuhan China    **NASA Tech Briefs** ,1997

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