

## Solidworks Step By Guide

Beginner's Guide to SOLIDWORKS 2021 - Level II Design Workbook Using SOLIDWORKS 2020 Solidworks 2019: A Power Guide for Beginners and Intermediate User Beginner's Guide to SolidWorks 2014 - Level III Introduction to SolidWorks SOLIDWORKS 2020 Intermediate Skills The Complete Guide to Mold Making with SOLIDWORKS 2021 Beginner's Guide to SOLIDWORKS 2020 - Level II Solidworks for Designers: Guide to Step-by-Step SolidWorks. Engineering Design with SOLIDWORKS 2019 SOLIDWORKS 2019 Basic Tools Creating Animations with SolidWorks Step-by-step Official Certified SOLIDWORKS Professional Certification Guide (2018, 2019, 2020) Engineering Design with SOLIDWORKS 2017 and Video Instruction Beginner's Guide to SOLIDWORKS 2018 - Level I Engineering Design with SolidWorks 2011 Beginner's Guide to SOLIDWORKS 2019 - Level I SolidWorks 2019 Step-By-Step Guide SOLIDWORKS 2021 Tutorial SOLIDWORKS 2018 Tutorial with Video Instruction Introduction to Static Analysis Using SolidWorks Simulation Learn SOLIDWORKS 2020 SOLIDWORKS 2021 Intermediate Skills SOLIDWORKS 2018: A Tutorial Approach, 4th Edition SOLIDWORKS Simulation 2020 Mastering SolidWorks SolidWorks 2014 Reference Guide Solidworks 2020 Engineering Design with SOLIDWORKS 2018 and Video Instruction SolidWorks 2019 Training Guide SOLIDWORKS 2021 Advanced Techniques SOLIDWORKS 2020 Advanced Techniques SOLIDWORKS Simulation 2020: A Power Guide for Beginners and Intermediate Users Beginner's Guide to SOLIDWORKS 2020 - Level I Solidworks 2016 Solidworks 2015 SOLIDWORKS 2020 and Engineering Graphics SOLIDWORKS 2020: A Step-By-Step Tutorial Guide for Beginners (Mixed Units) The Complete Guide to Mold Making with SOLIDWORKS 2020 Engineering Design with SolidWorks 2012

### Beginner's Guide to SOLIDWORKS 2021 - Level II

Beginner's Guide to SolidWorks 2014 - Level II starts where Beginner's Guide - Level I ends, following the same easy to read style and companion video instruction, but this time covering advanced topics and techniques. The purpose of this book is to teach advanced techniques including sheet metal, surfacing, how to create components in the context of an assembly and reference other components (Top-down design), propagate design changes with SolidWorks' parametric capabilities, mold design, welded structures, and more while explaining the basic concepts of each trade to allow you to understand the how and why of each operation. The author uses simple examples to allow you to better understand each command and environment, as well as to make it easier to explain the purpose of each step, maximizing the learning time by focusing on one task at a time. This book is focused 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. At the end of this book, you will have acquired enough skills to be highly competitive when it comes to designing with SolidWorks, and while there are many less frequently used commands and options available that will not be covered in this book, rest assured that those covered are most of the commands used every day by SolidWorks designers. The author strived hard to include the commands required in the Certified SolidWorks Associate test as listed on the SolidWorks website, and some, as well as several more.

## **Design Workbook Using SOLIDWORKS 2020**

The Complete Guide to Mold Making with SOLIDWORKS 2021 is a quick paced book written to provide experienced SOLIDWORKS users with in-depth knowledge of the mold tools provided by SOLIDWORKS. Throughout this book you will learn the procedures necessary for using these tools to create and analyze effective mold designs. Utilizing step-by-step instructions, each chapter of this book will guide you through different tasks, from designing or repairing a mold, to developing complex parting lines; from making a core in the part mode to advancing through more complex tasks in the assembly mode. Throughout this book you will be introduced to using surfacing tools to repair models and prepare them for the mold making process. Towards the end of this book, you will learn how to work with SOLIDWORKS Plastics and Flow Simulation to simulate the way melted plastics flow during the injection molding process. You will also learn to analyze the thick-thin wall regions to predict defects on plastic parts and molds. Learning how to analyze plastic parts for errors and correct them early in the design stage is a valuable skill, which can save a significant amount of time throughout the span of the entire design process. Every project in this book is based on real world products. Each of these projects have been broken down and developed into simple, comprehensible steps. Furthermore, every mold design is explained very clearly in short chapters, ranging from 15 to 25 pages. Each step comes with the exact screen shot to help you understand the main concept of the design. Learn the mold designs at your own pace, as you progress from simple core and cavity creation to more complex mold design challenges. This book will also teach you to use various surfacing tools such as: • Ruled Surface • Planar Surface • Knit Surface • Filled Surface • Extend Surface • Trim Surface • Lofted Surface Who This Book Is For This book is for users already familiar with SOLIDWORKS who want to expand their knowledge of mold design. To get the most out of this mold design book, it is strongly recommended that you have completed all the lessons in the SOLIDWORKS Advanced Techniques book or have comparable knowledge. More CAD literate individuals, who want to expand their knowledge of the different features that SOLIDWORKS 2021 has to offer, will also find this book to be a great resource.

## **Solidworks 2019: A Power Guide for Beginners and Intermediate User**

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.

### **Beginner's Guide to SolidWorks 2014 - Level II**

Revised and refreshed for SOLIDWORKS 2020, Design Workbook Using SOLIDWORKS 2020 is an exercise-based book that guides you through a series of easy to understand, step-by-step tutorials that cover basic SOLIDWORKS commands. The 2020 edition includes updated SOLIDWORKS processes and methods to create models more efficiently than ever before. The intended audience is undergraduate engineering majors, but it can also be used in pre-college engineering courses. The engaging and straightforward lab exercises in this workbook are also ideal for self-learners. The text takes an educational approach where you learn through repetition, starting with simple models, and introducing more complex models and commands as the book progresses, leading you to create assemblies, make Finite Element Analyses, detail manufacturing drawings, complete dynamic simulations, and learn the basics of rapid prototyping. The principles of engineering graphics are also incorporated into the lessons throughout the text. The commands and functions learned throughout this book will help a new user understand their use, how to apply them in different situations, and design ever more complex components.

### **Introduction to SolidWorks**

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 2020 Intermediate Skills**

Engineering Design with SolidWorks 2011 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 beginning 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: SimulationXpress, Sustainability / SustainabilityXpress and DFMXpress and Intelligent Modeling techniques. 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 Project 1 - 8 to achieve the design goals. 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 enclosed Multi-media CD. 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 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. Their responsibilities go far beyond the creation of just a 3D model. The book is designed to compliment the SolidWorks Tutorials contained in SolidWorks 2011.

### **The Complete Guide to Mold Making with SOLIDWORKS 2021**

Beginner's Guide to SOLIDWORKS 2020 - Level II starts where Beginner's Guide - Level I ends, following the same easy to read style and companion videoinstruction, but this time covering advanced topics and techniques. The purpose of this book is to teach advanced techniques including sheet metal, surfacing, how to create components in the context of an assembly and reference other components (Top-down design), propagate design changes with SOLIDWORKS' parametric capabilities, mold design, welded structures and more while explaining the basic concepts of each trade to allow you to understand the how and why of each operation. The author uses simple examples to allow you to better understand each command and environment, as well as to make it easier to explain the purpose of each step, maximizing the learning time by focusing on one task at a time. This book is focused 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. At the end of this book, you will have acquired enough skills to be highly competitive when it comes to designing with SOLIDWORKS, and while there are many less frequently used commands and options available that will not be covered in this book, rest assured that those covered are most of the commands used every day by SOLIDWORKS designers. The author strived hard to include many of the commands required in the Certified SOLIDWORKS Professional Advanced and Expert exams as listed on the SOLIDWORKS website.

### **Beginner's Guide to SOLIDWORKS 2020 - Level II**

### **Solidworks for Designers: Guide to Step-by-Step SolidWorks.**

The complete SolidWorks reference-tutorial for beginner to advanced techniques Mastering SolidWorks is the reference-tutorial for all users. Packed with step-by-step instructions, video tutorials for over 40 chapters, and coverage of little-known techniques, this book takes you from novice to power user with clear instruction that goes beyond the basics. Fundamental techniques are detailed with real-world examples for hands-on learning, and the companion website provides tutorial files for all exercises. Even veteran users will find value in new techniques that make familiar tasks faster, easier, and more organized, including advanced file management tools that simplify and streamline pre-flight checks. SolidWorks is the leading 3D CAD program, and is an essential tool for engineers, mechanical designers, industrial designers, and drafters around the world. User friendly features such as drag-and-drop, point-and-click, and cut-and-paste tools belie the software's powerful capabilities that can help you create cleaner, more precise, more polished designs in a fraction of the time. This book is the comprehensive reference every SolidWorks user needs, with tutorials, background, and more for beginner to advanced techniques. Get a grasp on fundamental SolidWorks 2D and 3D tasks using realistic examples with text-based tutorials Delve into advanced functionality and capabilities not commonly covered by how-to guides Incorporate improved search, Pack-and-Go and other file management tools into your workflow Adopt best practices and exclusive techniques you won't find anywhere else Work through this book beginning-to-end as a complete SolidWorks course, or dip in as needed to learn new techniques and time-saving tricks on-demand. Organized for efficiency and designed for practicality, these tips will remain useful at any stage of expertise. With exclusive coverage and informative detail, Mastering SolidWorks is the tutorial-reference for users at every level of expertise.

### **Engineering Design with SOLIDWORKS 2019**

### **SOLIDWORKS 2019 Basic Tools**

SOLIDWORKS 2019 Basic Tools is the first book in a three part series. It introduces new users to the SOLIDWORKS interface, SOLIDWORKS tools and basic modeling techniques. It provides you with a strong understanding of SOLIDWORKS and covers the creation of parts, assemblies and drawings. Every lesson and exercise in

this book was created based on real world projects. Each of these projects has been broken down and developed into easy and comprehensible steps. Furthermore, at the end of every chapter there are self test questionnaires to ensure that you have gained sufficient knowledge from each section before moving on to more advanced lessons. This book takes the approach that in order to understand SOLIDWORKS, inside and out, you should create everything from the beginning and take it step by step.

### **Creating Animations with SolidWorks Step-by-step**

- Picks up where SOLIDWORKS Basic Tools leaves off
- Uses a step by step tutorial approach with real world projects
- Comprehensive coverage of intermediate SOLIDWORKS tools and techniques
- Expands on Solids, Surfaces, Multibodies, Configurations, Drawings, Sheet Metal and Assemblies
- Features a quick reference guide
- This edition includes a new chapter on plastic parts

SOLIDWORKS 2020 Intermediate Skills is part of a three part series which builds on the SOLIDWORKS features learned in SOLIDWORKS 2020 Basic Tools. SOLIDWORKS 2020 Intermediate Skills broadens your SOLIDWORKS knowledge base by covering such features as surveys, lofts and boundaries, the use of multibodies, generating engineering drawings and other SOLIDWORKS functions that are critical for the effective use of this powerful software. This book helps prepare you for the advanced features of SOLIDWORKS which are covered in SOLIDWORKS Advanced Techniques. It uses a step by step tutorial approach with real world projects. This book also features a Quick-Reference-Guide to the SOLIDWORKS 2020 commands, icons, and customized hotkeys. Who's this book for? This book is for the mid-level user, who is already familiar with the SOLIDWORKS program. It is also a great resource for the more CAD literate individuals who want to expand their knowledge of the different features that SOLIDWORKS 2020 has to offer.

### **Official Certified SOLIDWORKS Professional Certification Guide (2018, 2019, 2020)**

Black & White Edition. The Full Color Edition is also available

SOLIDWORKS Simulation 2020: A Power Guide for Beginners and Intermediate Users textbook is designed for instructor-led courses as well as for self-paced learning. It is intended to help engineers and designers interested in learning finite element analysis (FEA) using SOLIDWORKS Simulation. This textbook benefits new SOLIDWORKS Simulation users and is a great teaching aid in classroom training. It consists of 10 chapters, a total of 390 pages covering various types of finite element analysis (FEA) such as Linear Static Analysis, Buckling Analysis, Fatigue Analysis, Frequency Analysis, Drop Test Analysis, and Non-linear Static Analysis. This textbook covers important concepts and methods used in finite element analysis (FEA) such as Preparing Geometry, Boundary Conditions (load and fixture), Element Types, Contacts, Connectors, Meshing, Mesh Controls, Mesh Check (Aspect Ratio check and Jacobian check), Adaptive Meshing (H-Adaptive and P-Adaptive), Iterative Methods (Newton-Raphson Scheme and Modified Newton-Raphson Scheme), Incremental Methods (Force, Displacement, or Arc Length), and so on. This textbook not only focuses on the usages of the tools of SOLIDWORKS Simulation but also on the fundamentals of finite element analysis (FEA) through various real-

world Case Studies. The Case Studies used in this textbook allow users to solve various real-world engineering problems by using SOLIDWORKS Simulation step-by-step. Also, the Hands-on Test Drives are given at the end of chapters that allow users to experience themselves the ease-of-use and immense capacities of SOLIDWORKS Simulation. Every chapter begins with learning objectives related to the topics covered in that chapter. Moreover, every chapter ends with a summary which lists the topics learned in that chapter followed by questions to assess the knowledge. Table of Contents: Chapter 1. Introduction to FEA and SOLIDWORKS Simulation Chapter 2. Introduction to Analysis Tools and Static Analysis Chapter 3. Case Studies of Static Analysis Chapter 4. Contacts and Connectors Chapter 5. Adaptive Mesh Methods Chapter 6. Buckling Analysis Chapter 7. Fatigue Analysis Chapter 8. Frequency Analysis Chapter 9. Drop Test Analysis Chapter 10. Non-Linear Static Analysis Main Features of the Textbook Comprehensive coverage of tools Step-by-step real-world case studies Hands-on test drives to enhance the skills at the end of chapters Additional notes and tips Customized content for faculty (PowerPoint Presentations) Free learning resources for students and faculty Technical support for the book: [info@cadartifex.com](mailto:info@cadartifex.com)

## **Engineering Design with SOLIDWORKS 2017 and Video Instruction**

SOLIDWORKS 2021 Tutorial is written to assist students, designers, engineers and professionals who are new to SOLIDWORKS. The text provides a step-by-step, project based learning approach. It also contains information and examples on the five categories in the CSWA exam. The book is divided into four sections. Chapters 1 - 5 explore the SOLIDWORKS User Interface and CommandManager, Document and System properties, simple and complex parts and assemblies, proper design intent, design tables, configurations, multi-sheet, multi-view drawings, BOMs, and Revision tables using basic and advanced features. In chapter 6 you will create the final robot assembly. The physical components and corresponding Science, Technology, Engineering and Math (STEM) curriculum are available from Gears Educational Systems. All assemblies and components for the final robot assembly are provided. 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. Chapter 11 covers the benefits of additive manufacturing (3D printing), how it differs from subtractive manufacturing, and its features. You will also learn 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.

## **Beginner's Guide to SOLIDWORKS 2018 - Level I**

Designed to provide an insight into the Mechanical Design concept DESCRIPTION The book promises to make you understand and practice the SolidWorks framework. The aim of this book is to take you on a journey to all the phases of SolidWorks. SolidWorks is an innovative, next-generation industry software that allows you to solve and understand the designing and mechanical problems. SolidWorks uses a technical implementation approach for sketching, surfacing, and sheet metal drafting in an incremental and easy way. The main objective of this book is to make the reader understand the concepts of design based on practical knowledge rather than theoretical knowledge. KEY FEATURES Each command is explained in a simple and understandable manner Step-by-step explanation Practical knowledge rather than theoretical knowledge Covers all the modules of SolidWorks 2019 WHAT WILL YOU LEARN SolidWorks and its GUI Sketches (Line, Rectangle, Slot, Circle, ARC, Polygon, and Spline) Extrude, Revolved, Swept, Loft, Boundary, Fillet, and Chamfer) Surface (Extruded, Revolved, Swept, Lofted, Boundary, Filled, and Planner) Sheet metal (Base flange/tab, Edge flange, Miter flange, and Hem) Weldments (Structural member, Trim/Extend, End cap, and Gusset) Curves Mold design Drafting Assembly WHO THIS BOOK IS FOR Mechanical engineers and designers, automobile engineers, product designers, heavy vehicle designers. Table of Contents 1. Introduction and Overview 2. Sketch 3. Features 4. Surface 5. Sheet Metal 6. Weldments 7. Curves 8. Mold Design 9. Assembly 10. Drafting

## **Engineering Design with SolidWorks 2011**

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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.

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### **SolidWorks 2019 Step-By-Step Guide**

Uses Finite Element Analysis (FEA) as Implemented in SolidWorks Simulation Outlining a path that readers can follow to ensure a static analysis that is both accurate and sound, Introduction to Static Analysis using SolidWorks Simulation effectively applies one of the most widely used software packages for engineering design to the concepts of static analysis. This text utilizes a step-by-step approach to introduce the use of a finite element simulation within a computer-aided design

(CAD) tool environment. It does not center on formulae and the theory of FEM; in fact, it contains essentially no theory on FEM other than practical guidelines. The book is self-contained and enables the reader to progress independently without an instructor. It is a valuable guide for students, educators, and practicing professionals who wish to forego commercial training programs, but need to refresh or improve their knowledge of the subject. Classroom Tested with Figures, Examples, and Homework Problems The book contains more than 300 illustrations and extensive explanatory notes covering the features of the SolidWorks (SW) Simulation software. The author presents commonly used examples and techniques highlighting the close interaction between CAD modelling and FE analysis. She describes the stages and program demands used during static analysis, details different cases, and explores the impact of selected options on the final result. In addition, the book includes hands-on exercises, program commands, and a summary after each chapter. Explores the static studies of simple bodies to more complex structures Considers different types of loads and how to start the loads property managers Studies the workflow of the run analysis and discusses how to assess the feedback provided by the study manager Covers the generation of graphs Determines how to assess the quality of the created mesh based on the final results and how to improve the accuracy of the results by changing the mesh properties Examines a machine unit with planar symmetrical geometry or with circular geometry exposed to symmetrical boundary conditions Compares 3D FEA to 2D FEA Discusses the impact of the adopted calculating formulation by comparing thin-plate results to thick-plate results Introduction to Static Analysis using SolidWorks Simulation equips students, educators, and practicing professionals with an in-depth understanding of the features of SW Simulation applicable to static analysis (FEA/FEM).

### **SOLIDWORKS 2021 Tutorial**

SOLIDWORKS 2020 and Engineering Graphics: An Integrated Approach combines an introduction to SOLIDWORKS 2020 with a comprehensive coverage of engineering graphics principles. Not only will this unified approach give your course a smoother flow, your students will also save money on their textbooks. What's more, the exercises in this book cover the performance tasks that are included on the Certified SOLIDWORKS Associate (CSWA) Examination. Reference guides located at the front of the book and in each chapter show where these performance tasks are covered. The primary goal of SOLIDWORKS 2020 and Engineering Graphics: An Integrated Approach is to introduce the aspects of Engineering Graphics with the use of modern Computer Aided Design package - SOLIDWORKS 2020. This text is intended to be used as a training guide for students and professionals. The chapters in this text proceed in a pedagogical fashion to guide you from constructing basic shapes to making complete sets of engineering drawings. This text takes a hands-on, exercise-intensive approach to all the important concepts of Engineering Graphics, as well as in-depth discussions of parametric feature-based CAD techniques. This textbook contains a series of sixteen chapters, with detailed step-by-step tutorial style lessons, designed to introduce beginning CAD users to the graphics language used in all branches of technical industry. This book does not attempt to cover all of SOLIDWORKS 2020's features, only to provide an introduction to the software. It is intended to help you establish a good basis for exploring and growing in the exciting field of Computer

Aided Engineering.

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instead of focusing on individual software commands or operations, which are generally simple enough to learn. At the end of this book, you will have acquired enough skills to be highly competitive when it comes to designing with SOLIDWORKS, and while there are many less frequently used commands and options available that will not be covered in this book, rest assured that those covered are most of the commands used every day by SOLIDWORKS designers. The author strived hard to include many of the commands required in the Certified SOLIDWORKS Professional Advanced and Expert exams as listed on the SOLIDWORKS website. 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.

### **Learn SOLIDWORKS 2020**

Engineering Design with SolidWorks 2012 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 beginning 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: SimulationXpress, Sustainability / SustainabilityXpress and DFMXpress and Intelligent Modeling techniques. 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 - 8 to achieve the design goals. 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 enclosed multimedia DVD. 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 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. Their responsibilities go far beyond the creation of just a 3D model. The book is designed to compliment the SolidWorks Tutorials contained in SolidWorks 2012.

### **SOLIDWORKS 2021 Intermediate Skills**

The Complete Guide to Mold Making with SOLIDWORKS 2020 is a quick paced book written to provide experienced SOLIDWORKS users with in-depth knowledge of the mold tools provided by SOLIDWORKS. Throughout this book you will learn the procedures necessary for using these tools to create and analyze effective mold designs. Utilizing step-by-step instructions, each chapter of this book will guide you through different tasks, from designing or repairing a mold, to developing complex parting lines; from making a core in the part mode to advancing through more complex tasks in the assembly mode. Throughout this book you will be introduced to using surfacing tools to repair models and prepare them for the mold making process. Towards the end of this book, you will learn how to work with SOLIDWORKS Plastics and Flow Simulation to simulate the way melted plastics flow during the injection molding process. You will also learn to analyze the thick-thin wall regions to predict defects on plastic parts and molds. Learning how to analyze plastic parts for errors and correct them early in the design stage is a valuable skill, which can save a significant amount of time throughout the span of the entire design process. Every project in this book is based on real world products. Each of these projects have been broken down and developed into simple, comprehensible steps. Furthermore, every mold design is explained very clearly in short chapters, ranging from 15 to 25 pages. Each step comes with the exact screen shot to help you understand the main concept of the design. Learn the mold designs at your own pace, as you progress from simple core and cavity creation to more complex mold design challenges. This book will also teach you to use various surfacing tools such as: Ruled Surface Planar Surface Knit Surface Filled Surface Extend Surface Trim Surface Lofted Surface Who This Book Is For This book is for users already familiar with SOLIDWORKS who want to expand their knowledge of mold design. To get the most out of this mold design book, it is strongly recommended that you have completed all the lessons in the SOLIDWORKS Advanced Techniques book or have comparable knowledge. More CAD literate individuals, who want to expand their knowledge of the different features that SOLIDWORKS 2020 has to offer, will also find this book to be a great resource.

### **SOLIDWORKS 2018: A Tutorial Approach, 4th Edition**

SOLIDWORKS 2015: A Power Guide for Beginner and Intermediate Users textbook is designed for instructor-led courses as well as for self-paced learning. This textbook is intended to help engineers and designers who are interested in learning SOLIDWORKS for creating 3D mechanical design. It will be a great starting point for new SOLIDWORKS users and a great teaching aid in classroom training. This textbook contains of 13 chapters covering major environments of SOLIDWORKS: Part, Assembly, and Drawing which teaches you how to use the SOLIDWORKS mechanical design software to build parametric models and assemblies, and how to make drawings of those parts and assemblies. This textbook is not only focuses on the uses of tools/commands of SOLIDWORKS but also on the concept of design. Every chapter of this textbook contains tutorials which intend to help user to experience how things can be done in SOLIDWORKS step by step. Moreover, every chapter ends with hands-on test drives which allow users of this textbook to experience themselves the ease-of-use and powerful capabilities of SOLIDWORKS. Table of Contents: Chapter 1. Introduction to SOLIDWORKS Chapter 2. Drawing Sketches with SOLIDWORKS Chapter 3. Editing and Modifying Sketches Chapter 4. Applying Geometric Relations and Dimensions

Chapter 5. Creating First/Base Feature of a Solid Model Chapter 6. Creating Reference Geometries Chapter 7. Advanced Modeling I Chapter 8. Advanced Modeling II Chapter 9. Patterning and Mirroring Chapter 10. Advanced Modeling III Chapter 11. Working with Assemblies I Chapter 12. Working with Assemblies II Chapter 13. Working with Drawing

### **SOLIDWORKS Simulation 2020**

Engineering Design with SOLIDWORKS 2019 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 featuring machined, plastic and sheet metal components. Desired outcomes and usage competencies are listed for each project. The book is divided into five sections with 11 projects. Project 1 - Project 6: Explore the SOLIDWORKS User Interface and CommandManager, Document and System properties, simple and complex parts and assemblies, proper design intent, design tables, configurations, multi-sheet, multi-view drawings, BOMs, and Revision tables using basic and advanced features. Additional techniques include the edit and reuse of features, parts, and assemblies through symmetry, patterns, configurations, SOLIDWORKS 3D ContentCentral and the SOLIDWORKS Toolbox. Project 7: Understand Top-Down assembly modeling and Sheet Metal parts. Develop components In-Context with InPlace Mates, along with the ability to import parts using the Top-Down assembly method. Convert a solid part into a Sheet Metal part and insert and apply various Sheet Metal features. Project 8 - Project 9: Recognize SOLIDWORKS Simulation and Intelligent Modeling techniques. Understand a general overview of SOLIDWORKS Simulation and the type of questions that are on the SOLIDWORKS Simulation Associate - Finite Element Analysis (CSWSA-FEA) exam. Apply design intent and intelligent modeling techniques in a sketch, feature, part, plane, assembly and drawing. Project 10: Comprehend the differences between additive and subtractive manufacturing. Understand 3D printer terminology along with a working knowledge of preparing, saving, and printing CAD models on a low cost printer. Project 11: Review the Certified SOLIDWORKS Associate (CSWA) program. Understand the curriculum and categories of the CSWA exam and the required model knowledge needed to successfully take the exam. 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.

### **Mastering SolidWorks**

Explore a practical and example-driven approach to understanding SOLIDWORKS 2020 and achieving CSWA and CSWP certification Key Features Gain comprehensive insights into the core aspects of mechanical part modeling Get up to speed with generating assembly designs with both standard and advanced mates Focus on design practices for both 2D as well as 3D modeling and prepare to achieve CWSP and CWSA certification Book 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 learn

- Understand the fundamentals of SOLIDWORKS and parametric modeling
- Create professional 2D sketches as bases for 3D models using simple and advanced modeling techniques
- Use SOLIDWORKS drawing tools to generate standard engineering drawings
- Evaluate mass properties and materials for designing parts and assemblies
- Understand the objectives and the formats of the CSWA and CSWP exams
- Discover expert tips and tricks to generate different part and assembly configurations for your mechanical designs

Who 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.

### **SolidWorks 2014 Reference Guide**

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.

### **Solidworks 2020**

SOLIDWORKS 2021 Advanced Techniques picks up where SOLIDWORKS 2021 Intermediate Skills leaves off. Its aim is to take you from an intermediate user with

a basic understanding of SOLIDWORKS and modeling techniques to an advanced user capable of creating complex models and able to use the advanced tools provided by SOLIDWORKS. The text covers parts, surfaces, SimulationXpress, sheet metal, top-down assemblies and core and cavity molds. Every lesson and exercise in this book was created based on real world projects. Each of these projects has been broken down and developed into easy and comprehensible steps. Furthermore, at the end of every chapter there are self test questionnaires to ensure that you have gained sufficient knowledge from each section before moving on to more advanced lessons. This book takes the approach that in order to understand SOLIDWORKS, inside and out, you should create everything from the beginning and take it step by step. Who this book is for This book is for the intermediate to advanced user who has already completed the SOLIDWORKS Basic Tools book and may have also completed the SOLIDWORKS Intermediate Skills book. People who are very familiar with SOLIDWORKS and its add ins will also find this book to be a valuable resource.

### **Engineering Design with SOLIDWORKS 2018 and Video Instruction**

SOLIDWORKS 2020: A Power Guide for Beginners and Intermediate User textbook is designed for instructor-led courses as well as for self-paced learning. It is intended to help engineers and designers interested in learning SOLIDWORKS for creating 3D mechanical design. This textbook is a great help for new SOLIDWORKS users and a great teaching aid in classroom training. This textbook consists of 14 chapters, total 800 pages covering the major environments of SOLIDWORKS such as Sketching environment, Part modeling environment, Assembly environment, and Drawing environment. This textbook teaches users to use SOLIDWORKS mechanical design software for creating parametric 3D solid components, assemblies, and 2D drawings. This textbook also includes a chapter on creating multiple configurations of a design. This textbook not only focuses on the usage of the tools and commands of SOLIDWORKS but also on the concept of design. Every chapter in this textbook contains tutorials that provide users with step-by-step instructions for creating mechanical designs and drawings with ease. Moreover, every chapter ends with hands-on test drives which allow users to experience the user friendly and technical capabilities of SOLIDWORKS. Table of Contents: Chapter 1. Introduction to SOLIDWORKS Chapter 2. Drawing Sketches with SOLIDWORKS Chapter 3. Editing and Modifying Sketches Chapter 4. Applying Geometric Relations and Dimensions Chapter 5. Creating First/Base Feature of Solid Models Chapter 6. Creating Reference Geometries Chapter 7. Advanced Modeling - I Chapter 8. Advanced Modeling - II Chapter 9. Patterning and Mirroring Chapter 10. Advanced Modeling - III Chapter 11. Working with Configurations Chapter 12. Working with Assemblies - I Chapter 13. Working with Assemblies - II Chapter 14. Working with Drawings Main Features of the Textbook Comprehensive coverage of tools Step-by-step real-world tutorials with every chapter Hands-on test drives to enhance the skills at the end of every chapter Additional notes and tips Customized content for faculty (PowerPoint Presentations) Free learning resources for faculty and students Additional student and faculty projects Technical support for the book by contacting [info@cadartifex.com](mailto:info@cadartifex.com)

## **SolidWorks 2019 Training Guide**

This book starts with SolidWorks 2019 using step-by-step examples. It begins with creating sketches and parts, assembling them, and then creating print ready drawings. This book gives you an idea about how you can design and document various mechanical components, and helps you to learn some advanced tools and techniques. This book also follows some of the best practices in creating parts. In addition to this, there are some additional chapters covering sheet metal and surface design. Each topic in this book has a brief introduction and a step-by-step example. This will help you to learn SolidWorks 2018 quickly and easily. - Go through with the User Interface - A step-by-step practice to create sketches and 3D models - Teach you about advance Part Modeling tools - Learn the procedure to create Multiple-body parts - Learn to modify components at each step - Learn to create assemblies - Learn Top-down assembly design - Learn to create 2D drawings - Learn basic tools available in Sheet Metal and Surface Environment - Create sheet metal drawings - Create complex shapes using surface modeling tools You can download Resource Files from: [www.cadfolks.com](http://www.cadfolks.com) (Available very soon)

## **SOLIDWORKS 2021 Advanced Techniques**

SOLIDWORKS 2020: A Step-By-Step Tutorial Guide for Beginners (Mixed Units) textbook is intended to help students, designers, engineers, and professionals who are interested in learning SOLIDWORKS step-by-step for creating real world 3D mechanical designs. It is a great starting point for new users of SOLIDWORKS and for those moving from other CAD software. This textbook contains tutorials that provide users with step-by-step instructions for creating parametric 3D solid components, assemblies, and 2D drawings with ease. Every tutorial in this textbook is created based on real-world projects. This textbook consists of 11 chapters, a total of 428 pages covering major environments of SOLIDWORKS such as Part modeling environment, Assembly environment, and Drawing environment including configurations. Every chapter ends with exercises that allow users to experience for themselves the user friendly and powerful capacities of SOLIDWORKS, which help users to assess their knowledge. Table of Contents: Chapter 1. Introduction to SOLIDWORKS Chapter 2. Creating and Editing Sketches Chapter 3. Creating Extrude and Revolve Features Chapter 4. Creating Multi-Feature 3D Models Chapter 5. Creating Sweep and Loft Features Chapter 6. Creating Holes, Threads, and Shell Features Chapter 7. Creating 3D Sketches and Helical Curves Chapter 8. Working with Configurations Chapter 9. Creating Assemblies Using Bottom-up Approach Chapter 10. Creating Assemblies Using Top-down Approach Chapter 11. Creating 2D Drawings

## **SOLIDWORKS 2020 Advanced Techniques**

SOLIDWORKS 2016: A Power Guide for Beginners and Intermediate Users textbook is designed for instructor-led courses as well as for self-paced learning. This textbook is intended to help engineers and designers who are interested in learning SOLIDWORKS for creating 3D mechanical designs. It will be a great starting point for new SOLIDWORKS users and a great teaching aid in classroom training. This textbook contains 13 chapters which consist of 758 pages covering

major environments of SOLIDWORKS: Part, Assembly, and Drawing, which teaches you how to use the SOLIDWORKS mechanical design software to build parametric models and assemblies, and how to make drawings of parts and assemblies. Every chapter of this textbook contains tutorials which intend to help users to experience how things can be done in SOLIDWORKS step by step. Moreover, every chapter ends with hands-on test drives which allow users to experience themselves the ease-of-use and powerful capabilities of SOLIDWORKS. Table of Contents: Chapter 1. Introduction to SOLIDWORKS Chapter 2. Drawing Sketches with SOLIDWORKS Chapter 3. Editing and Modifying Sketches Chapter 4. Applying Geometric Relations and Dimensions Chapter 5. Creating First/Base Feature of Solid Models Chapter 6. Creating Reference Geometries Chapter 7. Advanced Modeling - I Chapter 8. Advanced Modeling - II Chapter 9. Patterning and Mirroring Chapter 10. Advanced Modeling - III Chapter 11. Working with Assemblies - I Chapter 12. Working with Assemblies - II Chapter 13. Working with Drawing

### **SOLIDWORKS Simulation 2020: A Power Guide for Beginners and Intermediate Users**

This senior undergraduate level textbook is written for Advanced Manufacturing, Additive Manufacturing, as well as CAD/CAM courses. Its goal is to assist students in colleges and universities, designers, engineers, and professionals interested in using SolidWorks as the design and 3D printing tool for emerging manufacturing technology for practical applications. This textbook will bring a new dimension to SolidWorks by introducing readers to the role of SolidWorks in the relatively new manufacturing paradigm shift, known as 3D-Printing which is based on Additive Manufacturing (AM) technology. This new textbook: Features modeling of complex parts and surfaces Provides a step-by-step tutorial type approach with pictures showing how to model using SolidWorks Offers a user-Friendly approach for the design of parts, assemblies, and drawings, motion-analysis, and FEA topics Includes clarification of connections between SolidWorks and 3D-Printing based on Additive Manufacturing Discusses a clear presentation of Additive Manufacturing for Designers using SolidWorks CAD software "Introduction to SolidWorks: A Comprehensive Guide with Applications in 3D Printing" is written using a hands-on approach which includes a significant number of pictorial descriptions of the steps that a student should follow to model parts, assemble parts, and produce drawings.

### **Beginner's Guide to SOLIDWORKS 2020 - Level I**

- The perfect follow up to SOLIDWORKS Intermediate Skills
- Uses a step by step tutorial approach with real world projects
- Comprehensive coverage of advanced SOLIDWORKS tools and techniques
- Covers parts, surfaces, SimulationXpress, sheet metal, top-down assemblies and core and cavity molds
- Features a quick reference guide and a Certified SOLIDWORKS Professional practice exam

SOLIDWORKS 2020 Advanced Techniques picks up where SOLIDWORKS 2020 Intermediate Skills leaves off. Its aim is to take you from an intermediate user with a basic understanding of SOLIDWORKS and modeling techniques to an advanced user capable of creating complex models and able to use the advanced tools provided by SOLIDWORKS. The text covers parts, surfaces, SimulationXpress, sheet

metal, top-down assemblies and core and cavity molds. Every lesson and exercise in this book was created based on real world projects. Each of these projects has been broken down and developed into easy and comprehensible steps. Furthermore, at the end of every chapter there are self test questionnaires to ensure that you have gained sufficient knowledge from each section before moving on to more advanced lessons. This book takes the approach that in order to understand SOLIDWORKS, inside and out, you should create everything from the beginning and take it step by step.

### **Solidworks 2016**

SOLIDWORKS 2018: A Tutorial Approach introduces readers to SOLIDWORKS 2018 software, one of the world's leading parametric solid modeling packages. In this book, the author has adopted a tutorial-based approach to explain the fundamental concepts of SOLIDWORKS. This book has been written with the tutorial point of view and the learn-by-doing theme to help the users easily understand the concepts covered in it. The book consists of 12 chapters that are structured in a pedagogical sequence that makes the book very effective in learning the features and capabilities of the software. The book covers a wide range of topics such as Sketching, Part Modeling, Assembly Modeling, Drafting in SOLIDWORKS 2018. In addition, this book covers the basics of Mold Design, FEA, and SOLIDWORKS Simulation. Salient Features: Consists of 12 chapters that are organized in a pedagogical sequence. Tutorial approach to explain various concepts of SOLIDWORKS 2018. First page of every chapter summarizes the topics that are covered in it. Step-by-step instructions that guide the users through the learning process. Several real-world mechanical engineering designs as tutorials and projects. Additional information throughout the book in the form of notes and tips. Self-Evaluation Tests and Review Questions at the end of the chapters for the users to assess their knowledge. Technical support by contacting 'techsupport@cadcam.com'. Additional learning resources at <http://allaboutcadcam.blogspot.com>. Table of Contents Chapter 1: Introduction to SOLIDWORKS 2018 Chapter 2: Drawing Sketches for Solid Models Chapter 3: Editing and Modifying Sketches Chapter 4: Adding Relations and Dimensions to Sketches Chapter 5: Advanced Dimensioning Techniques and Base Feature Options Chapter 6: Creating Reference Geometries Chapter 7: Advanced Modeling Tools-I Chapter 8: Advanced Modeling Tools-II Chapter 9: Assembly Modeling Chapter 10: Working with Drawing Views Chapter 11: Introduction to FEA and SOLIDWORKS Simulation Chapter 12: Introduction to Mold Design Student Project Index

### **Solidworks 2015**

SOLIDWORKS 2018 Tutorial with video instruction is written to assist students, designers, engineers and professionals who are new to SOLIDWORKS. The text provides a step-by-step, project based learning approach. It also contains information and examples on the five categories, to take and understand the Certified Associate - Mechanical Design (CSWA) exam. The book is divided into four sections. Chapters 1 - 5 explore the SOLIDWORKS User Interface and CommandManager, Document and System properties, simple and complex parts and assemblies, proper design intent, design tables, configurations, multi-sheet, multi-view drawings, BOMs, and Revision tables using basic and advanced

features. In chapter 6 you will create the final robot assembly. The physical components and corresponding Science, Technology, Engineering and Math (STEM) curriculum are available from Gears Educational Systems. All assemblies and components for the final robot assembly are provided. 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. Chapter 11 covers the benefits of additive manufacturing (3D printing), how it differs from subtractive manufacturing, and its features. You will also learn 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.

## **SOLIDWORKS 2020 and Engineering Graphics**

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.

## **SOLIDWORKS 2020: A Step-By-Step Tutorial Guide for Beginners (Mixed Units)**

This book will provide you with a wealth of information about the three segments of the CSWP CORE exam. The intended audience for this book is a person who has passed the CSWA exam and who has eight or more months of SOLIDWORKS training and usage. This guide is not intended to teach you how to use SOLIDWORKS, but is written to provide you with CSWP exam tips, hints and information on sample questions and categories that are aligned with the exam. This guide is written to help you take and pass the CSWP exam. The book is organized into three chapters. Each chapter is focused on a segment of the CSWP CORE exam. This is not intended to be a step-by-step book. Goals of this book The primary goal is not only to help you pass the CSWP CORE exam, but also to ensure that you understand and comprehend the concepts and implementation details of the process. The second goal is to provide the most comprehensive coverage of CSWP CORE 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 all three segments of the CSWP CORE exam. Who this book is for The intended audience for this book and the CSWP exam is a person who has passed the CSWA exam and who has eight or more months of SOLIDWORKS training and usage. However, passing the CSWA exam is not a prerequisite for taking the CSWP exam if you are a commercial user in industry. For students that take the CSWP exam through their school, you must first pass the CSWA exam.

## **The Complete Guide to Mold Making with SOLIDWORKS 2020**

SOLIDWORKS 2019: A Power Guide for Beginners and Intermediate User textbook is designed for instructor-led courses as well as for self-paced learning. It is intended to help engineers and designers interested in learning SOLIDWORKS for creating 3D mechanical design. This textbook is a great help for new SOLIDWORKS users and a great teaching aid in classroom training. This textbook consists of 14 chapters (total 792 pages) covering the major environments of SOLIDWORKS; Sketching environment, Part modeling environment, Assembly environment, and Drawing environment, which assist you in using the SOLIDWORKS mechanical design software to build parametric 3D solid components and assemblies, and making 2D drawings of those parts and assemblies. This textbook also includes a chapter on creating multiple configurations of a design. This textbook not only focuses on the usages of the tools/commands of SOLIDWORKS but also on the concept of design. Every chapter of this textbook contains tutorials which help users to easily operate SOLIDWORKS step-by-step. Moreover, every chapter ends with hands-on test drives which allow users to experience the user friendly and technical capabilities of SOLIDWORKS. Table of Contents: Chapter 1. Introduction to SOLIDWORKS Chapter 2. Drawing Sketches with SOLIDWORKS Chapter 3. Editing and Modifying Sketches Chapter 4. Applying Geometric Relations and Dimensions Chapter 5. Creating First/Base Feature of Solid Models Chapter 6. Creating Reference Geometries Chapter 7. Advanced Modeling - I Chapter 8. Advanced Modeling - II Chapter 9. Patterning and Mirroring Chapter 10. Advanced Modeling - III Chapter 11. Working with Configurations Chapter 12. Working with Assemblies - I

Chapter 13. Working with Assemblies - II Chapter 14. Working with Drawings Main Features of the d104book Comprehensive coverage of tools Step-by-step real-world tutorials with every chapter Hands-on test drives to enhance the skills at the end of every chapter Additional notes and tips Customized content for faculty (PowerPoint Presentations) Free learning resources for faculty and students Additional student and faculty projects Technical support for the book by contacting [info@cadartifex.com](mailto:info@cadartifex.com)

### **Engineering Design with SolidWorks 2012**

- Picks up where SOLIDWORKS Basic Tools leaves off
- Uses a step by step tutorial approach with real world projects
- Comprehensive coverage of intermediate SOLIDWORKS tools and techniques
- Expands on Solids, Surfaces, Multibodies, Configurations, Drawings, Sheet Metal and Assemblies
- Features a quick reference guide

SOLIDWORKS 2021 Intermediate Skills is part of a three part series which builds on the SOLIDWORKS features learned in SOLIDWORKS 2021 Basic Tools. SOLIDWORKS 2021 Intermediate Skills broadens your SOLIDWORKS knowledge base by covering such features as surveys, lofts and boundaries, the use of multibodies, generating engineering drawings and other SOLIDWORKS functions that are critical for the effective use of this powerful software. This book helps prepare you for the advanced features of SOLIDWORKS which are covered in SOLIDWORKS Advanced Techniques. It uses a step by step tutorial approach with real world projects. This book also features a Quick-Reference-Guide to the SOLIDWORKS 2021 commands, icons, and customized hotkeys. Who's this book for? This book is for the mid-level user, who is already familiar with the SOLIDWORKS program. It is also a great resource for the more CAD literate individuals who want to expand their knowledge of the different features that SOLIDWORKS 2021 has to offer.

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