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Official Certified SOLIDWORKS Professional Certification Guide (2018, 2019, 2020) Official Certified SolidWorks Professional (CSWP) Certification Guide and Video Instruction Certified SOLIDWORKS Professional Advanced Preparation Material (SOLIDWORKS 2023)
Official Certified SolidWorks Professional (CSWP) Certification Guide with Video Instruction Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSWA-SD, CSWSA-S, CSWA-AM (SOLIDWORKS 2019 - 2021) Official Certified SolidWorks Associate (CSWA) Examination Guide Official Certified SOLIDWORKS Professional Certification Guide (SOLIDWORKS 2020 - 2023) Certified Solidworks Professional Advanced Sheet Metal Exam Preparation: Cswpa-SM Certified SOLIDWORKS Professional Advanced Preparation Material (2022) Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSWA-SD, CSWSA-FEA (SOLIDWORKS 2015 - 2017) Certified SOLIDWORKS Professional Advanced Preparation Material Certified SOLIDWORKS Professional Advanced Preparation Material (SOLIDWORKS 2021)

Certified SOLIDWORKS Professional Advanced Weldments (CSWPA-WD) Exam Preparation Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSWA-SD, CSWSA-FEA, CSWA-AM (2017-2019) Certified Solidworks Professional Advanced Surface Modeling Exam Preparation Certified Solidworks Expert Preparation Materials (2019) Learn SOLIDWORKS 2020 Certified Solidworks Professional Advanced Surface Modeling Exam Preparation Certified SOLIDWORKS Professional Advanced Preparation Material (SOLIDWORKS 2020) Learn SOLIDWORKS Certified SOLIDWORKS Professional Advanced Preparation Material (SOLIDWORKS 2019) Commands Guide Tutorial for SolidWorks 2013 Beginner's Guide to SOLIDWORKS 2019 - Level I Beginner's Guide to SOLIDWORKS 2021 - Level I CSWE - Certified SolidWorks Expert Preparation Materials - SolidWorks 2010-2015 Official Certified Solidworks Associate CSWA Exam Book SOLIDWORKS 2020 Advanced Techniques SOLIDWORKS 2022 Quick Start Learn SOLIDWORKS 2022 - Second Edition Beginner's Guide to SOLIDWORKS 2022 - Level II Drawing and

Detailing with SOLIDWORKS 2022 Official Certified SOLIDWORKS Professional Certification Guide (SOLIDWORKS 2015 - 2017) Certified SOLIDWORKS Professional Advanced Preparation Material (SOLIDWORKS 2018) CSWP Exam Preparation Teach Yourself SolidWorks SOLIDWORKS 2020 Intermediate Skills SOLIDWORKS SolidWorks 2010 Engineering Design with SOLIDWORKS 2022 SolidWorks Surfacing and Complex Shape Modeling Bible

The CSWPA is a set of exams designed to demonstrate your advanced abilities in five distinct areas of SOLIDWORKS. By passing the CSWPA exams you prove to potential employers that you have an advanced skill set within SOLIDWORKS, and you become more desirable in the job market. Certified SOLIDWORKS Professional Advanced Preparation Material is intended for the SOLIDWORKS user who has already passed the CSWP exam, and is ready to advance to the next level. This book covers the five CSWPA examinations: Sheet Metal, Weldments, Surfacing, Mold Tools, and Drawing Tools. The lessons in this book were created based on the actual CSWPA

examinations. Each of these projects has been broken down and developed into easy and comprehensible steps for the reader. Every challenge is explained very clearly in short chapters, ranging from 30 to 50 pages. Each step comes with a screen shot to help you understand the main concept of each design more easily. Learn the CSWP Advanced Preparation Materials at your own pace, as you progress from Parts, Assemblies, Drawings and then to more complex design challenges. To get the most out of this CSWPA-Certification Preparation book it is strongly recommended that you have studied and completed all the lessons in the Basic Tools, Intermediate Skills and Advanced Techniques books. 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. This book is a great resource to prepare for and pass the CSWPA exams which will prove your expertise and further your career. After completing at least four of the five CSWPA exams you will become eligible to try for the highest level SOLIDWORKS certification, the Certified SOLIDWORKS Expert. Table of Contents 1. Drawing Tools 2. Mold Tools 3. Weldments 4. Sheet Metal 5. Surfacing Glossary Index SOLIDWORKS Quick-Guide SOLIDWORKS 2022 Quick Start introduces new users to the basics of using SOLIDWORKS 3D CAD software in five easy lessons. This book is intended for the student or designer who needs to learn

SOLIDWORKS quickly and effectively. This book is perfect for engineers in industry who are expected to have SOLIDWORKS skills for their company's next project or students who need to learn SOLIDWORKS without taking a comprehensive CAD course. Based on years of teaching SOLIDWORKS to engineering students, SOLIDWORKS 2022 Quick Start concentrates on the areas where new users can improve efficiency in the design modeling process. By learning the correct SOLIDWORKS skills and file management techniques, you gain the most knowledge in the shortest period of time. This book begins with an overview of SOLIDWORKS and the User Interface (UI), its menus, toolbars and commands. With a quick pace, you learn the essentials of 2D sketching, part and assembly creation, perform motion study, develop detailed part and assembly drawings and much more. Throughout this book you develop a mini Stirling Engine and investigate the proper design intent and constraints. Bonus Chapters Two bonus chapters are included with this book. Chapter six is a review of the Certified SOLIDWORKS Associate (CSWA) exam. It will help you understand the curriculum and categories of the CSWA exam and the required model knowledge needed to successfully take and pass the exam. Chapter seven is an introduction to additive manufacturing (3D printing). It covers the difference between additive and subtractive manufacturing, 3D printer terminology, knowledge of preparing, saving,

and printing a model on a Fused Filament Fabrication 3D printer and much more. This chapter also includes information on the Certified SOLIDWORKS Additive Manufacturing Certification (CSWA-AM) exam. The Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSDA, CSWSA-FEA is written to assist the SOLIDWORKS user to pass the associate level exams. Information is provided to aid a person to pass the Certified SOLIDWORKS Associate (CSWA), Certified SOLIDWORKS Sustainable Design Associate (CSDA) and the Certified SOLIDWORKS Simulation Associate Finite Element Analysis (CSWSA FEA) exam. There are three goals for this book. The primary goal is not only to help you pass the CSWA, CSDA and CSWSA-FEA exams, but also to ensure that you understand and comprehend the concepts and implementation details of the three certification processes. The second goal is to provide the most comprehensive coverage of CSWA, CSDA and CSWSA-FEA exam related topics available, without too much coverage of topics not on the exam. The third and ultimate goal is to get you from where you are today to the point that you can confidently pass the CSWA, CSDA and the CSWSA-FEA exam. The Certified SOLIDWORKS Associate (CSWA) certification indicates a foundation in and apprentice knowledge of 3D CAD design and engineering practices and principles. Passing this exam provides students the chance to prove their knowledge and expertise and to be part of a worldwide

industry certification standard. The Certified SOLIDWORKS Sustainable Design Associate (CSDA) certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of environmental assessment and sustainable design. The Certified SOLIDWORKS Simulation Associate - Finite Element Analysis (CSWSA-FEA) certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of stress analysis and the Finite Element Method (FEM). The CSWPA is a set of exams designed to demonstrate your advanced abilities in five distinct areas of SOLIDWORKS. By passing the CSWPA exams you prove to potential employers that you have an advanced skill set within SOLIDWORKS, and you become more desirable in the job market. Certified SOLIDWORKS Professional Advanced Preparation Material is intended for the SOLIDWORKS user who has already passed the CSWP exam, and is ready to advance to the next level. This book covers the five CSWPA examinations: Sheet Metal, Weldments, Surfacing, Mold Tools, and Drawing Tools. The lessons in this book were created based on the actual CSWPA examinations. Each of these projects has been broken down and developed into easy and comprehensible steps for the reader. Every challenge is explained very clearly in short chapters, ranging from 30 to 50 pages. Each step comes with a screen shot to help you understand the main concept of each design

more easily. Learn the CSWP Advanced Preparation Materials at your own pace, as you progress from Parts, Assemblies, Drawings and then to more complex design challenges. To get the most out of this CSWPA-Certification Preparation book it is strongly recommended that you have studied and completed all the lessons in the Basic Tools, Intermediate Skills and Advanced Techniques books. It is also a great resource for the more CAD literate individuals who want to expand their knowledge of the different features that SOLIDWORKS 2022 has to offer. This book is a great resource to prepare for and pass the CSWPA exams which will prove your expertise and further your career. After completing at least four of the five CSWPA exams you will become eligible to try for the highest level SOLIDWORKS certification, the Certified SOLIDWORKS Expert. The only continuous, step-by-step tutorial for SolidWorks SolidWorks is a 3D CAD manufacturing software package that has been used to design everything from aerospace robotics to bicycles. This book teaches beginners to use SolidWorks through a step-by-step tutorial, letting you build, document, and present a project while you learn. Tools and functionality are explained in the context of professional, real-world tasks and workflows. You will learn the essential functions and gain the skills to use the software at once. SolidWorks is a popular design software for manufacturing, and this book introduces it in the context of actually creating

an object Begins with an overview of SolidWorks conventions and the interface Explains how to create models and drawings, create a revolved part and subassembly, and model parts within a subassembly Explores modification capabilities and drawing and Bill of Materials templates Moves on to top-level assembly models and drawings, Toolbox components and the Design Library, mates, export and printing capabilities, and creating renderings Includes a glossary, a foreword from the SolidWorks product manager, and downloadable tutorial files SolidWorks 2010: No Experience Required quickly turns beginners into confident users of SolidWorks. The Commands Guide Tutorial for SolidWorks 2013 is a comprehensive reference book written to assist the beginner to intermediate user of SolidWorks 2013. SolidWorks is an immense software package, and no one book can cover all topics for all users. This book provides a centralized reference location to address many of the tools, features and techniques of SolidWorks 2013. This book covers the following: System and Document properties FeatureManagers PropertyManagers ConfigurationManagers RenderManagers 2D and 3D Sketch tools Sketch entities 3D Feature tools Motion Study Sheet Metal Motion Study Sustainability Sustainability Xpress FlowXpress PhotoView 360 Pack and Go Intelligent Modeling techniques and more. Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using

SolidWorks 2013 software. If you are completely new to SolidWorks, you should read Chapter 1 in detail and complete Lesson 1, Lesson 2 and Lesson 3 in the SolidWorks Tutorials. If you are familiar with an earlier release of SolidWorks, you still might want to skim Chapter 1 to become acquainted with some of the commands, menus and features that you have not used; or you can simply jump to any section in any chapter. Each chapter (18 total) provides detailed PropertyManager information on key topics with individual stand alone short tutorials to reinforce and demonstrate the functionality and ease of the SolidWorks tool or feature. All models for the 240 plus tutorials are located on the enclosed book CD with their solution (initial and final). Learn by doing, not just by reading! Formulate the skills to create, modify and edit sketches and solid features. Learn the techniques to reuse features, parts and assemblies through symmetry, patterns, copied components, design tables, configurations and more. The book is design to compliment the Online Tutorials and Online Help contained in SolidWorks 2013. The goal is to illustrate how multiple design situations and systematic steps combine to produce successful designs. The authors developed the tutorials by combining their own industry experience with the knowledge of engineers, department managers, professors, vendors and manufacturers. These professionals are directly involved with SolidWorks everyday. Their responsibilities go far beyond the creation

of just a 3D model. The CSWPA is a set of exams designed to demonstrate your advanced abilities in five distinct areas of SOLIDWORKS. By passing the CSWPA exams you prove to potential employers that you have an advanced skill set within SOLIDWORKS, and you become more desirable in the job market. Certified SOLIDWORKS Professional Advanced Preparation Material is intended for the SOLIDWORKS user who has already passed the CSWP exam, and is ready to advance to the next level. This book covers the five CSWPA examinations: Sheet Metal, Weldments, Surfacing, Mold Tools, and Drawing Tools. The lessons in this book were created based on the actual CSWPA examinations. Each of these projects has been broken down and developed into easy and comprehensible steps for the reader. Every challenge is explained very clearly in short chapters, ranging from 30 to 50 pages. Each step comes with a screen shot to help you understand the main concept of each design more easily. Learn the CSWP Advanced Preparation Materials at your own pace, as you progress from Parts, Assemblies, Drawings and then to more complex design challenges. To get the most out of this CSWPA-Certification Preparation book it is strongly recommended that you have studied and completed all the lessons in the Basic Tools, Intermediate Skills and Advanced Techniques books. 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. This book is a great resource to prepare for and pass the CSWPA exams which will prove your expertise and further your career. After completing at least four of the five CSWPA exams you will become eligible to try for the highest level SOLIDWORKS certification, the Certified SOLIDWORKS Expert. The CSWPA is a set of exams designed to demonstrate your advanced abilities in five distinct areas of SOLIDWORKS. By passing the CSWPA exams you prove to potential employers that you have an advanced skill set within SOLIDWORKS, and you become more desirable in the job market. Certified SOLIDWORKS Professional Advanced Preparation Material is intended for the SOLIDWORKS user who has already passed the CSWP exam, and is ready to advance to the next level. This book covers the five CSWPA examinations: Sheet Metal, Weldments, Surfacing, Mold Tools, and Drawing Tools. The lessons in this book were created based on the actual CSWPA examinations. Each of these projects has been broken down and developed into easy and comprehensible steps for the reader. Every challenge is explained very clearly in short chapters, ranging from 30 to 50 pages. Each step comes with a screen shot to help you understand the main concept of each design more easily. Learn the CSWP Advanced Preparation Materials at your own pace, as you progress from Parts, Assemblies, Drawings and then to more complex design challenges. To get the most out of this CSWPA-Certification

Preparation book it is strongly recommended that you have studied and completed all the lessons in the Basic Tools, Intermediate Skills and Advanced Techniques books. It is also a great resource for the more CAD literate individuals who want to expand their knowledge of the different features that SOLIDWORKS 2023 has to offer. This book is a great resource to prepare for and pass the CSWPA exams which will prove your expertise and further your career. After completing at least four of the five CSWPA exams you will become eligible to try for the highest level SOLIDWORKS certification, the Certified SOLIDWORKS Expert.

- 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. 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 CSWPA is a set of exams designed to demonstrate your advanced abilities in five distinct areas of SOLIDWORKS. By passing the CSWPA exams you prove to potential employers that you have an advanced skill set within SOLIDWORKS, and you become more desirable in the job market. Certified SOLIDWORKS Professional Advanced Preparation Material is intended for the SOLIDWORKS user who has already passed the CSWP exam, and is ready to advance to the next level. This book covers the five CSWPA examinations: Sheet Metal, Weldments, Surfacing, Mold Tools, and Drawing Tools. The lessons in this book were created based on the actual CSWPA examinations. Each of these projects has been broken down and developed into easy and comprehensible steps for the reader. Every challenge is explained very

clearly in short chapters, ranging from 30 to 50 pages. Each step comes with a screen shot to help you understand the main concept of each design more easily. Learn the CSWP Advanced Preparation Materials at your own pace, as you progress from Parts, Assemblies, Drawings and then to more complex design challenges. To get the most out of this CSWPA-Certification Preparation book it is strongly recommended that you have studied and completed all the lessons in the Basic Tools, Intermediate Skills and Advanced Techniques books. It is also a great resource for the more CAD literate individuals who want to expand their knowledge of the different features that SOLIDWORKS 2019 has to offer. This book is a great resource to prepare for and pass the CSWPA exams which will prove your expertise and further your career. After completing at least four of the five CSWPA exams you will become eligible to try for the highest level SOLIDWORKS certification, the Certified SOLIDWORKS Expert. Get to grips with leading 3D engineering and product design application to design robust 3D models and achieve CSWA and CSWP certification Key FeaturesGain comprehensive insights into the core aspects of 3D modeling's mechanical partsLearn how to generate assembly designs with both standard and advanced matesDiscover design practices for both 2D as well as 3D modeling and prepare to achieve CSWP and CSWA certificationBook Description SOLIDWORKS is the leading choice for 3D engineering and product design

applications across industries such as aviation, automobile, and consumer product design. This book helps you to get up and running with SOLIDWORKS and understand each new concept and tool with the help of easy-to-follow exercises. You'll begin with the basics, exploring the software interface and finding out how to work 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 prepare you to take on any design project. You'll also work with practical exercises to get hands-on experience 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 to understand the concepts and exercises more easily. Finally, you'll also work on projects for 3D modeling objects inspired by everyday life. By the end of this SOLIDWORKS book, you'll have gained the skills you need to create professional 3D mechanical models using SOLIDWORKS and 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 assembliesJoin different parts together to form static and dynamic assembliesDiscover 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, makers, draftsmen, and hobbyists looking to get started with SOLIDWORKS and explore the software. Individuals who are interested in becoming Certified SOLIDWORKS Associates (CSWAs) or Certified SOLIDWORKS Professionals (CSWPs) will also find this book useful. No specific background is needed to follow the concepts in the book as it starts from the basics of SOLIDWORKS. However, basic theoretical knowledge of 3D modeling will be helpful to get the most out of this book. A comprehensive introduction to SOLIDWORKS using tutorial style, step-by-step instructions Designed for beginning or intermediate SOLIDWORKS users Learn to create parts and assemblies using machined, plastic and sheet metal components Also covers Simulation, Sustainability, and Intelligent Modeling techniques Includes bonus chapters on the CSWA exam and 3D printing Engineering Design with SOLIDWORKS 2022 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. This book is written to assist you with passing the SOLIDWORKS associate level exams. It provides you with detailed information and exercises that will aid you in passing the following exams: Certified SOLIDWORKS Associate (CSWA), Certified SOLIDWORKS Associate Sustainable Design (CSWA-SD), Certified SOLIDWORKS Associate Simulation (CSWSA-S) and the Certified SOLIDWORKS Associate Additive Manufacturing (CSWA-AM) exam. There are three goals for this book. The primary goal of this book is not only to help you pass the CSWA, CSWA-SD, CSWSA-S and CSWA-AM exams, but also to ensure that you understand and comprehend the concepts and implementation details of the four certification processes. The second goal is to provide the most comprehensive coverage of CSWA, CSWA-SD, CSWSA-S and CSWA-AM exam related

topics available, without too much coverage of topics not on the exam. The third and ultimate goal is to get you from where you are today to the point that you can confidently pass the CSWA, CSWA-SD, CSWSA-S and CSWA-AM exams. CSWA Exam The CSWA certification indicates a foundation in and apprentice knowledge of 3D CAD design and engineering practices and principles. The intended audience for this section of the book is anyone trying to take and pass the CSWA exam with a minimum of 6 - 9 months of SOLIDWORKS experience and basic knowledge of engineering fundamentals and practices. SOLIDWORKS recommends that you review their SOLIDWORKS Tutorials on Parts, Assemblies and Drawings as a prerequisite and have at least 45 hours of classroom time learning SOLIDWORKS or using SOLIDWORKS with basic engineering design principles and practices. CSWA-SD Exam The Certified SOLIDWORKS Associate Sustainable Design (CSWA-SD) certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of environmental assessment and sustainable design. This section of the book is intended for anyone interested in Sustainable design as well as life cycle assessment and trying to take and pass the CSWA-SD exam. Although no hands-on usage of SOLIDWORKS is required for the CSWA-SD certification exam, it is a good idea to review the SOLIDWORKS SustainabilityXpress and SOLIDWORKS Sustainability tutorials

inside of SOLIDWORKS to better understand the actual workflow. The CSWA-SD is based off the SOLIDWORKS Sustainable Design Guide that incorporates concepts including sustainability, environmental assessment and life cycle impact assessment. CSWSA-S Exam The Certified SOLIDWORKS Associate Simulation (CSWSA-S) certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of stress analysis and the Finite Element Method (FEM). The CSWSA-S section of the book is for anyone trying to take and pass the CSWSA-S with a minimum of 6 - 9 months of SOLIDWORKS experience and knowledge in the following areas: Engineering Mechanics - Statics, Strength of Materials, Finite Element Method/Finite Element Analysis Theory, Applied concepts in SOLIDWORKS Simulation: namely Static Analysis, Solid, Shell, and Beam elements, Connections and Applying loads and boundary conditions and interpreting results. The purpose of this section in the book is NOT to educate a new or intermediate user on SOLIDWORKS Simulation, but to cover and to inform you on the types of questions, layout and what to expect when taking the CSWSA-S exam. CSWA-AM Exam The Certified SOLIDWORKS Associate Additive Manufacturing (CSWA-AM) certification indicates a foundation in and apprentice knowledge of today's 3D printing technology and market. The intended audience for this section of the book is anyone trying to take and

pass the CSWA-AM exam and an interest in Additive Manufacturing. The CSWA-AM exam is meant to be taken after the completion of the 10-part learning path located on MySOLIDWORKS.com. The CSWA-AM exam fundamentally covers two 3D printing technologies: Fused Filament Fabrication (FFF) and STereoLithography (SLA). There are a few questions on Selective Laser Sintering (SLS) technology and available software-based printing aids. This book is based on the actual CSWPA-SM exam. It is the most complete and comprehensive book on CSWPA-SM available, and it will thoroughly prepare you to take and pass the CSWPA-SM exam. The CSWPA-SM exam is one of the most challenging of the CSWPA exams and this book will help you prepare for this exam. There 15 Questions in the exam as is in this book and the exam length is 90 minutes. Each and every step comes with actual exam screen captures and step by step solutions with screen captures from solidworks. Solidworks is one of the most widely used MCAD packages on the planet and it is an excellent example of how certification can distinguish a standout designer or design engineer from the rest of the crowd. The completion of the Certified SOLIDWORKS Professional Advanced Sheet Metal (CSWPA-SM) exam shows that you have successfully demonstrated your ability to use SOLIDWORKS Sheet Metal tools and employers can be confident that an individual with this certification understands the set of

SOLIDWORKS tools that aid in the design of sheet metal components. A journey of a thousand miles begins with the first step, take the step today by purchasing this eBook or in fact a roadmap to passing your Certified SOLIDWORKS Professional Advanced Sheet Metal (CSWPA-SM) Exam and joining a family of thousands of Certified Solidworks Professionals across the Globe. This book is not only for someone who wants to write and pass the Certified SOLIDWORKS Professional Advanced Sheet Metal (CSWPA-SM) exam but it is also for those who want to learn the best practice in using sheet metal tools in Solidworks as well as those who want to keep their skills honed and or maintain their ingenuity and proficiency with the software. To write the CSWPA-SM exam, one should have passed the CSWA and CSWP exams. This book, CSWP exam preparation: All-in-one guidebook with practice exams, is written to assist students in college and universities, engineers, and professionals who are interested in getting a certification of CSWP (Certified SOLIDWORKS Professional). There are so many books available for learning SOLIDWORKS, while there are very few books to help for CSWP exam preparation. To prepare for exams efficiently, future exam takers essentially need exam-oriented preparation books. There are some online/offline training programs. However, those are very expensive to prepare a CSWP exam. This book is divided into four parts. Part I covers introductory principles of

CSWP, including fundamental knowledge of the CSWP exam. Part II covers the first segment of the CSWP exam mainly focusing on part modeling, including six practice exam sets. Also, key skills for passing the segment one exam are explained with various hands-on examples. Part III covers the second segment of the CSWP exam focusing on the configuration and design intent. Part IV covers the third segment focusing on the assemblies and mates. Organizing the book in this way is to help the students, engineers, and professionals to prepare the CSWP exam efficiently. This book has a significant number of pictorial descriptions of the steps with screenshots that a student should follow. Since 2018, the format of the CSWP exam has been updated. However, the problem pattern covered by the exam and the required SOLIDWORKS skill does not change significantly. To help adapt to this new format, two sets of updated tests form are included in each part. The first practice test set for each part is provided with a walkthrough instruction that includes a step-by-step problem-solving process, and the rest of the practice test sets are provided with the answers in the end-of-section with video tutorials. Time management is essential in CSWP, so it is recommended that you practice by completing the test within the specified time. It is hoped that students and engineers will find this edition useful for passing the CSWP exam in the first attempt. The most complete and comprehensive book on CSWPA-WD Exam

available based on the actual CSWPA-WD Exam with easy and comprehensible steps with screen captures from Solidworks. This book is not only for someone who wants to write and pass the Certified SOLIDWORKS Professional Advanced Weldments (CSWPA-WD) exam but it is also for those who want to learn the best practice in using Weldment tools in Solidworks as well as those who want to keep their skills honed and or maintain their ingenuity and proficiency with the software. The completion of the Certified SOLIDWORKS Professional Advanced Weldments (CSWPA-WD) exam shows that you have successfully demonstrated your ability to use SOLIDWORKS Weldments tools and employers can be confident that an individual with this certification understands the set of SOLIDWORKS tools that aid in the design of Weldments. A journey of a thousand miles begins with the first step, take the step today by purchasing this Book or in fact a roadmap to passing your Certified SOLIDWORKS Professional Advanced Weldments (CSWPA-WD) Exam and joining a family of thousands of Certified Solidworks Professionals across the Globe. Get to grips with leading 3D engineering and product design application to design robust 3D models and achieve CSWA and CSWP certification Key Features: Gain comprehensive insights into the core aspects of 3D modeling's mechanical parts Learn how to generate assembly designs with both standard and advanced mates Discover design practices for both 2D as well as 3D

modeling and prepare to achieve CSWP and CSWA certification Book Description: SOLIDWORKS is the leading choice for 3D engineering and product design applications across industries such as aviation, automobile, and consumer product design. This book helps you to get up and running with SOLIDWORKS and understand each new concept and tool with the help of easy-to-follow exercises. You'll begin with the basics, exploring the software interface and finding out how to work 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 prepare you to take on any design project. You'll also work with practical exercises to get hands-on experience 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 to understand the concepts and exercises more easily. Finally, you'll also work on projects for 3D modeling objects inspired by everyday life. By the end of this SOLIDWORKS book, you'll have gained the skills you need to create professional 3D mechanical models using SOLIDWORKS and 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 Join different parts together to form static and dynamic assemblies 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, makers, draftsmen, and hobbyists looking to get started with SOLIDWORKS and explore the software. Individuals who are interested in becoming Certified SOLIDWORKS Associates (CSWAs) or Certified SOLIDWORKS Professionals (CSWPs) will also find this book useful. No specific background is needed to follow the concepts in the book as it starts from the basics of SOLIDWORKS. However, basic theoretical knowledge of 3D modeling will be helpful to get the most out of this book. • 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. The Certified SOLIDWORKS Expert (CSWE) examination is meant to distinguish those individuals who demonstrate the ability to utilize advanced functions and features to solve complex modeling challenges. Becoming a Certified SOLIDWORKS Expert is a great way to distinguish yourself amongst your colleagues. The CSWE exam is the most challenging exam offered by SOLIDWORKS, and it has been almost impossible to find an authoritative guide on passing the exam - until now. This manual is the most complete and comprehensive book on the CSWE exam available, and it will thoroughly prepare you to take and pass the exam. Every lesson in this

book was created based on the actual CSWE examination. Each of these projects have been broken down and developed into easy and comprehensible steps for the reader. Furthermore, every challenge is explained very clearly in short chapters, ranging from 10 to 20 pages. Each step comes with the exact screen shot to help you understand the main concept of each design more easily. If you want to gain proficiency and expertise with SolidWorks surface modeling, this is the resource for you. You'll learn how to apply concepts, utilize tools, and combine techniques and strategies in hands-on tutorials. This Bible covers the range from sketching splines and shelling to modeling blends and decorative features. Complete with professional tips and real-world examples, this inclusive guide enables you to coax more out of SolidWorks surfacing tools. This book, along with the companion disc that accompanies it, 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. This book comes with a companion disc containing segment videos for you to follow while you use the book. Each

segment video provides valuable information, tips and tricks to successfully pass the CSWP CORE exam. SolidWorks model files, in both their initial and final state, are provided on this disc for SolidWorks 2012, 2013 and 2014. 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. 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. This book is based on the actual CSWPA-SU exam. It is the most complete and comprehensive book on CSWPA-SU available, and it will thoroughly prepare you to take and pass the CSWPA-SU exam. Each and every step comes with actual exam screen captures and step by step solutions with screen captures from solidworks. Solidworks is one of the most widely used MCAD packages on the planet and it is an excellent example of how certification can distinguish a standout designer or design engineer from the rest of the crowd. The completion of the Certified SOLIDWORKS Professional Advanced Surface Modeling(CSWPA-SU) exam shows that you have successfully demonstrated your ability to use SOLIDWORKS Surface Modeling tools and employers can be confident that an individual with this certification understands the set of SOLIDWORKS tools that aid in the design of Surface Models. A journey of a thousand miles begins with the first step, take the step today by purchasing this Book or infact a roadmap to passing your Certified SOLIDWORKS

Professional Advanced Surface Modeling (CSWPA-SU) Exam and joining a family of thousands of Certified Solidworks Professionals across the Globe. If you want to advance your SOLIDWORKS skills to a professional level, this course is for you. About This Video Grasp important concepts with a learning-by-doing approach Gain a clear understanding of SOLIDWORKS tools and related concepts Solve the exercises bundle provided with each section to reinforce the skills learned In Detail This CSWP course is streamlined to take you from the basics of SOLIDWORKS all the way to developing the skills expected of a Certified SOLIDWORKS Professional (CSWP). You'll learn how to use SOLIDWORKS to design complex innovations and draft complex models confidently. By the end of this course, you'll proudly be able to list your advanced SOLIDWORKS skills in your resume. With over 50 lectures containing both learning material and exercises to reinforce your SOLIDWORKS skills, this course adopts a learning-by-doing approach. You can use this course as an advanced continuation of SOLIDWORKS: Become a Certified Associate Today (CSWA). Basic knowledge of how SOLIDWORKS tools are used will help you understand the concepts covered easily. All you need is access to the SOLIDWORKS software and hands-on training to transform you from a beginner to a CSWP. Drawing and Detailing with SOLIDWORKS 2022 is written to educate and assist students, designers, engineers, and professionals in the

drawing and detailing tools of SOLIDWORKS. Explore the learning process through a series of design situations, industry scenarios, projects, and objectives target towards the beginning to intermediate SOLIDWORKS user. Work through numerous activities to create multiple-view, multiple-sheet, detailed drawings, and assembly drawings. Develop Drawing templates, Sheet formats, and Custom and Link Properties. Construct drawings that incorporate part configurations, assembly configurations, and design tables with equations. Manipulate annotations in parts, drawings, assemblies, Revision tables, and Bills of Materials. Drawing and Detailing with SOLIDWORKS 2022 is not a reference book for all drafting and drawing techniques and tools. The book provides information and examples in the following areas:

- History of engineering graphics, manual sketching techniques, orthographic projection, isometric projection, multi-view drawings, dimensioning practices, fasteners in general, tolerance and fit and the history of CAD leading to the development of SOLIDWORKS.
- Start a SOLIDWORKS 2022 session and to understand the following interfaces: Menu bar toolbar, Menu bar menu, Drop-down menus, Context toolbars, Consolidated drop-down toolbars, System feedback icons, Confirmation Corner, Heads-up View toolbar, Document Properties and more.
- Provide an understanding of how SOLIDWORKS drawing documents and templates are created and used. Create an

awareness on the structure of a Drawing document.

- General knowledge of the ASME Y14.5 Engineering Drawing and Related Documentation Practices.
- Create multi-sheet drawings from various part configurations and develop the following drawing views: Standard, Isometric, Auxiliary, Section, Broken Section, Detail, Half Section (Cut-away), Crop, Projected Back, with a Bill of Materials (using equations) and a Revision Table.
- Insert and edit: Dimensions, Feature Control Frames, Datums, Geometric Tolerancing, Surface Finishes, and Weld Symbols using Model Based Definitions (MBD), DimXpert and manual techniques.

Chapter 10 provides a section to 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 and pass the exam. Chapter 11 provides a section on the Certified SOLIDWORKS Professional - Advanced Drawing tools (CSWPA-DT) exam with sample exam questions and initial and final SOLIDWORKS models. Understand the curriculum and categories of the exam and the required model knowledge needed to successfully take and pass 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. The CSWPA is a set of exams designed to demonstrate your advanced

abilities in five distinct areas of SOLIDWORKS. By passing the CSWPA exams you prove to potential employers that you have an advanced skill set within SOLIDWORKS, and you become more desirable in the job market. Certified SOLIDWORKS Professional Advanced Preparation Material is intended for the SOLIDWORKS user who has already passed the CSWP exam, and is ready to advance to the next level. This book covers the five CSWPA examinations: Sheet Metal, Weldments, Surfacing, Mold Tools, and Drawing Tools. The lessons in this book were created based on the actual CSWPA examinations. Each of these projects has been broken down and developed into easy and comprehensible steps for the reader. Every challenge is explained very clearly in short chapters, ranging from 30 to 50 pages. Each step comes with a screen shot to help you understand the main concept of each design more easily. Learn the CSWP Advanced Preparation Materials at your own pace, as you progress from Parts, Assemblies, Drawings and then to more complex design challenges. To get the most out of this CSWPA-Certification Preparation book it is strongly recommended that you have studied and completed all the lessons in the Basic Tools, Intermediate Skills and Advanced Techniques books. It is also a great resource for the more CAD literate individuals who want to expand their knowledge of the different features that SOLIDWORKS 2018 has to offer. This book is a great resource to prepare for and pass the

CSWPA exams which will prove your expertise and further your career. After completing at least four of the five CSWPA exams you will become eligible to try for the highest level SOLIDWORKS certification, the Certified SOLIDWORKS Expert. 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. Beginner's Guide to SOLIDWORKS 2022 - 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 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. If you're looking for an authorized, reliable guide to prepare you to pass the Certified SolidWorks Associate (CSWA) exam, look no further-this is the only authorized CSWA preparation exam guide on the market today. Official Certified SolidWorks Associate CSWA Exam Guide covers the key topics contained on the exam with the aim of helping readers to master each topic as well as the exam itself. The book is more than a collection of practice exam questions because it also devotes attention to the concepts and implementation details that underlie the CSWA process, providing readers with a thorough and comprehensive foundation in SolidWorks. Each

chapter includes specially crafted features that introduce key CSWA exam topics, explain them in detail, give the reader an opportunity to apply them in short tutorials, and identify areas of weakness. Ideal for anyone with a basic knowledge of SolidWorks and engineering fundamentals, this book will help you get the certification you need to land the best jobs, get the best promotions, and become a successful professional.

Contents: Chapter 1: Basic Theory and Drawing Theory Chapter 2: Part Modeling Chapter 3: Advanced Part Modeling Chapter 4: Assembly Modeling Chapter 5: Advanced Modeling Theory and Analysis

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. 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. This book is written to assist you with passing the SOLIDWORKS associate level exams. It provides you with detailed information and exercises that will aid you in passing the following exams: Certified SOLIDWORKS Associate (CSWA), Certified SOLIDWORKS Associate Sustainable Design (CSWA-SD), Certified SOLIDWORKS Simulation Associate Finite Element Analysis (CSWSA-FEA) and the Certified SOLIDWORKS Associate Additive Manufacturing (CSWA-AM) exam. There are three goals for this book. The primary goal of this book is not only to help you pass the CSWA, CSWA-SD, CSWSA-FEA and CSWA-AM exams, but also to ensure that you understand and comprehend the concepts and implementation details of the four certification processes. The second goal is to provide the most comprehensive coverage of CSWA, CSWA-

SD, CSWSA-FEA and CSWA-AM exam related topics available, without too much coverage of topics not on the exam. The third and ultimate goal is to get you from where you are today to the point that you can confidently pass the CSWA, CSWA-SD, CSWSA-FEA and CSWA-AM exams. 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 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 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 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. -The most complete and comprehensive book on CSWPA-SU Exam available

Based on the actual CSWPA-SU Exam-Easy and comprehensible steps with screen captures

Description: This book is based on the actual CSWPA-SU exam. It is the most complete and comprehensive book on CSWPA-

SU available, and it will thoroughly prepare you to take and pass the CSWPA-SU exam. Each and every step comes with actual exam screen captures and step by step solutions with screen captures from solidworks .Solidworks is one of the most widely used MCAD packages on the planet and it is an excellent example of how certification can distinguish a standout designer or design engineer from the rest of the crowd. The completion of the Certified SOLIDWORKS Professional Advanced Surface Modeling(CSWPA-SU) exam shows that you have successfully demonstrated your ability to use SOLIDWORKS Surface Modeling tools and employers can be confident that an individual with this certification understands the set of SOLIDWORKS tools that aid in the design of Surface Models. A journey of a thousand miles begins with the first step, take the step today by purchasing this Book or infact a roadmap to passing your Certified SOLIDWORKS Professional Advanced Surface Modeling (CSWPA-SU) Exam and joining a family of thousands of Certified Solidworks Professionals across the Globe.

This book is not only for someone who wants to write and pass the Certified SOLIDWORKS Professional Advanced Surface Modeling (CSWPA-SU) exam but it is also for those who want to learn the best practice in using Surface Modeling tools in Solidworks as well as those who want to keep their skills honed and or maintain their ingenuity and proficiency with the software.

This a black and white print version -

a colour print version of the Book is also available. This book, along with the companion disc that accompanies it, 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. This book comes with a companion DVD containing segment videos for you to follow while you use the book. Each segment video provides valuable information, tips and tricks to successfully pass the CSWP CORE exam. SolidWorks model files, in both their initial and final state, are provided on this DVD for both SolidWorks 2012 and 2013. 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. Most CAD professionals today recognize the need to become certified to prove their skills, prepare for new job searches, and to learn new skills while at their existing job. Specifying a Certified SolidWorks Associate (CSWA) certification on your resume is a great way to increase your chances of landing a new job, getting a promotion, or looking more qualified when representing your company on a

consulting job. The primary goal of this book is not only to help you pass the CSWA exam, but also to ensure that you understand and comprehend the concepts and implementation details of the CSWA process. The second goal is to provide the most comprehensive coverage of CSWA exam related topics available, without too much coverage of topics not on the exam. The third and ultimate goal is to get you from where you are today to the point that you can confidently pass the CSWA exam. DS SolidWorks Corp. offers various stages of certification. Each stage represents increasing levels of expertise in 3D CAD design as it applies to engineering: Certified SolidWorks Associate CSWA, Certified SolidWorks Professional CSWP and Certified SolidWorks Expert CSWE along with specialty fields in Simulation, Sheet Metal, and Surfacing. The CSWA Certification indicates a foundation in and apprentice knowledge of 3D CAD design and engineering practices and principles. The main requirement for obtaining the CSWA certification is to take and pass the on-line proctored 180 minute exam (minimum of 165 out of 240 points). The new CSWA exam consists of fourteen questions in five categories. Passing this exam provides students the chance to prove their knowledge and expertise and to be part of a worldwide industry certification standard.

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