

# Official Certified Solidworks Associate Cswa Exam Book

Official Certified SolidWorks Associate (CSWA) Examination Guide  
Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSDA, CSWSA-FEA  
(SOLIDWORKS 2015 - 2017)  
Official Guide to Solidworks Associate Exams  
Official Certified Solidworks Associate CSWA Exam Book  
Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSWA-SD, CSWA-S, CSWA-AM (SOLIDWORKS 2022 - 2025)  
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Official Certified SolidWorks Professional (CSWP) Certification Guide with Video Instruction David C. Planchard  
David Planchard David Planchard David C. Planchard David Planchard Tayseer Almattar David Planchard Tayseer Almattar David C. Planchard Dean Kerste David Planchard Gabriel Corbett Tayseer Almattar David C. Planchard David Planchard Paul Tran Paul Tran Tayseer Almattar David Planchard  
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Learn SOLIDWORKS 2025 Official Certified SolidWorks Professional (CSWP) Certification Guide with Video Instruction *David C. Planchard David Planchard David C. Planchard David Planchard Tayseer Almattar David Planchard Tayseer Almattar David C. Planchard Dean Kerste David Planchard Gabriel Corbett Tayseer Almattar David C. Planchard David Planchard Paul Tran Paul Tran Tayseer Almattar David Planchard*

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 csdp 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

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 official guide to certified solidworks associate exams cswa csda and 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 sustainable design associate csda and the certified solidworks simulation associate finite element analysis cswsa fea exams 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 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 finite element analysis solidworks 2012 or higher is required to take the exam cswa exam audience the intended audience for this book trying to take and pass the cswa exam is anyone 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 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 csda exam audience the intended audience for this book trying to take and pass the csda exam is anyone interested in sustainable design and life cycle assessment although no hands on usage of solidworks is required for the csda 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 cswsa fea exam audience the intended audience for this book trying to take and pass the cswsa fea exam is anyone 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 required understanding types of questions layout and what to expect when taking the cswa fea exam

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

thoroughly prepares you for the cswa cswa sd cswa s and cswa am exams created in collaboration with the certification team at solidworks intended for anyone with 6-9 months of solidworks experience contains over 250 practice questions and examples as well as exam prep to help you get certified on your first try helps open doors to educational and career opportunities get hired and prepare for the demands of a job this edition covers additional material on the 3dexperince platform certification exams created in collaboration with the solidworks certification team the official guide to certified solidworks associate exams cswa cswa sd cswa s cswa am provides the most comprehensive coverage of solidworks associate exam related topics available this book is tailored for those with 6-9 months solidworks experience and basic knowledge of engineering fundamentals and practices a range of tutorials tips and over 250 examples and practice questions help you properly prepare for the exams chapters emphasize the most important information without too much coverage of topics not on the exams aligned with each of the exams the chapters explain implementation details of the four certification processes and what to expect when taking the exams from exam and question layout to question types and grading procedure for instructors guides are available to manage exam credits and student accounts the importance of solidworks certification cannot be overstated certification helps open doors to educational and career opportunities get hired and prepare for the demands of a job certification is a verifiable way to showcase students abilities and prove their skillset with an

obligatory waiting period of at least two weeks between exam attempts it is advantageous for students to pass the cswa cswa sd cswa s cswa am exams the first time around the official guide to certified solidworks associate exams gets you from where you are today to the point that you can confidently pass the cswa cswa sd cswa s and cswa am exams at the outset saving time and money and giving you a springboard for your career 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 sustainabilityexpress and solidworks sustainability tutorials inside of solidworks to better understand the actual workflow the cswa sd is based off the solidworks sustainable design guide that incorporates concepts including sustainability environmental assessment and life cycle impact assessment cswa s exam the certified solidworks associate simulation cswa s certification indicates a foundation in and apprentice knowledge of the principles of stress analysis and the finite element method fem the cswa s section of the book is for anyone trying to take and pass the cswa s with a minimum of 6 9 months of solidworks experience and knowledge in the following areas engineering mechanics statics strength of materials finite element method finite element analysis theory applied concepts in solidworks simulation namely static analysis solid shell and beam elements connections and applying loads and boundary conditions and interpreting results the purpose of this section in the book is not to educate a new or intermediate user on solidworks simulation but to cover the types of questions layout and what to expect when taking the cswa s exam 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 or anyone with 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

get to grips with leading 3d engineering and product design application to design robust 3d models and achieve cswa and cswp certification with solidworks

specialist tayseer almattar 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 csdp and cswa certification book descriptionsolidworks 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 csdp 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 csdps 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

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 cswa 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 cswa 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 cswa 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

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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 cswp and cswa 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

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the point that you can confidently pass the cswa cswa sd cswa s and cswa am exams cswa exam the cswa certification indicates a foundation in and apprentice knowledge of 3d cad design and engineering practices and principles the intended audience for this section of the book is anyone trying to take and pass the cswa exam with a minimum of 6 9 months of solidworks experience and basic knowledge of engineering fundamentals and practices solidworks recommends that you review their solidworks tutorials on parts assemblies and drawings as a prerequisite and have at least 45 hours of classroom time learning solidworks or using solidworks with basic engineering design principles and practices cswa sd exam the certified solidworks associate sustainable design cswa sd certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of environmental assessment and sustainable design this section of the book is intended for anyone interested in sustainable design as well as life cycle assessment and trying to take and pass the cswa sd exam although no hands on usage of solidworks is required for the cswa sd certification exam it is a good idea to review the solidworks sustainabilityexpress and solidworks sustainability tutorials inside of solidworks to better understand the actual workflow the cswa sd is based off the solidworks sustainable design guide that incorporates concepts including sustainability environmental assessment and life cycle impact assessment cswa s exam the certified solidworks associate simulation cswa s certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of stress analysis and the finite element method fem the cswa s section of the book is for anyone trying to take and pass the cswa s with a minimum of 6 9 months of solidworks experience and knowledge in the following areas engineering mechanics statics strength of materials finite element method finite element analysis theory applied concepts in solidworks simulation namely static analysis solid shell and beam elements connections and applying loads and boundary conditions and interpreting results the purpose of this section in the book is not to educate a new or intermediate user on solidworks simulation but to cover and to inform you on the types of questions layout and what to expect when taking the cswa s exam cswa am exam the certified solidworks associate additive manufacturing cswa am certification indicates a foundation in and apprentice knowledge of today s 3d printing technology and market the intended audience for this section of the book is anyone trying to take and pass the cswa am exam and an interest in additive manufacturing the cswa am exam is meant to be taken after the completion of the 10 part learning path located on mysolidworks com the cswa am exam fundamentally covers two 3d printing technologies fused filament fabrication fff and stereolithography sla there are a few questions on selective laser sintering sls technology and available software based printing aids

in this certified solidworks associate cswa exam preparation training course expert author dean kerste will teach you everything you need to know to successfully complete the exam and become a certified solidworks associate this course is designed for users that already have a fundamental understanding of solidworks you will start by learning about the certification such as what s covered on the exam hardware and software requirements and

how to purchase the exam dean will then teach you about basic intermediate and advanced part modeling and modification including creating cylinders create and revolving the sketch profile and creating the extruded part this video tutorial will also cover assembly modeling and drawing competencies finally you will learn how to access the certificate and prepare to take the exam resource description page

prepare for the certified solidworks associate cswa exam and master the techniques necessary to design parts and assemblies with the core features in solidworks

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

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 csdp 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 csaws or certified solidworks professionals csawps 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

solidworks 2007 tutorial was written to assist students designers engineers and professionals the book provides an introduction to the user interface menus toolbars concepts and modeling techniques of solidworks to create parts assemblies and drawings follow the step by step instructions and develop multiple assemblies that combine over 80 extruded machined parts and components formulate the skills to create modify and edit sketches and solid features learn the techniques to reuse features parts and assemblies through symmetry patterns copied components design tables and configurations review 2 hours of flash movie files that follow the steps in the book desired outcomes and usage competencies are listed for each project know your objective up front follow the steps in project 1 through project 4 to achieve your design goals work between multiple documents features commands and custom properties that represent how engineers and designers utilize solidworks in industry table of contents introduction 1 linkage assembly 2 front support assembly 3 fundamentals of drawing 4 pneumatic test module assembly appendix index

this book will provide you with a wealth of information about the three segments of the csdp 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 csdp 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 csdp exam the book is organized into three chapters each chapter is focused on a segment of the csdp 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 csdp 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 csdp 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 csdp core exam who this book is for the intended audience for this book and the csdp 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 csdp exam if you are a commercial user in industry for students that take the csdp 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 csdp 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 csdp 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

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 csdp 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 have 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 2017 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

elevate your engineering and product design skills with the latest 3d modeling techniques and attain cswa and cswp certification with solidworks specialist tayseer almattar key features get to grips with solidworks 3d modeling fundamentals via practical applications leverage the creation of assembly designs using both essential and complex mating techniques learn best practices for 2d and 3d design modeling setting the stage for cswp and cswa certification purchase of the print or kindle book includes a free pdf ebook book descriptiondiscover what makes solidworks 2025 the leading choice for 3d engineering and product design applications across industries such as aviation automobile and consumer product design drawing from his experience of teaching over 100 000 global learners and expertise in design thinking tayseer almattar brings a uniquely practical and learner focused approach to mastering solidworks starting with the fundamentals this new edition walks you through the software interface and introduces you to working with 3d files through easy to follow exercises and hands on examples you ll master essential skills such as sketching building complex 3d models generating dynamic and static assemblies and generating 2d engineering drawings each concept will build upon the last to prepare you to take on any design project with confidence to reinforce your understanding of solidworks the book includes downloadable resources and real world 3d modeling projects inspired by everyday objects by the end of this book you ll have the expertise to create professional 3d mechanical models using solidworks and be well prepared for the certified solidworks associate cswa and certified solidworks professional cswp exams what you will learn grasp the essentials of solidworks and the principles of parametric modeling craft precise 2d sketches that serve as the foundation for intricate 3d models utilize solidworks drawing tools to create standard engineering drawings analyze part and assembly designs by assessing mass properties and material choices assemble components to create both fixed and movable assembly structures gain proficiency in creating diverse configurations for your designs enhance your design process with the integration of solidworks cloud based services

who this book is for this book is for aspiring engineers designers makers draftsmen and hobbyists eager to get started with solidworks it is particularly beneficial for those who want to become certified solidworks associates cswas or certified solidworks professionals cswps no prior experience of solidworks is required as this book starts from the basics however foundational knowledge of 3d modeling will make it easier to follow along

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

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