

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) Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSWA-SD, CSWSA-FEA, CSWA-AM (2017-2019) Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSWA-SD, CSWA-S, CSWA-AM (SOLIDWORKS 2020 - 2023) Learn SOLIDWORKS 2020 Certified SolidWorks Associate (CSWA) Exam Training Learn SOLIDWORKS Assembly Modeling with SolidWorks 2012 SolidWorks 2010 Tutorial SolidWorks 2012 Tutorial Engineering Graphics with SolidWorks 2012 Assembly Modeling With Solidworks 2010 Cert Prep: Certified SOLIDWORKS Associate Cert Prep: Certified SOLIDWORKS Associate Learn SOLIDWORKS SOLIDWORKS 2017-19 Solidworks 2007 Tutorial with Multimedia CD David C. Planchard David Planchard David Planchard David C. Planchard David Planchard David Planchard David C. Planchard Tayseer Almattar Dean Kerste Tayseer Almattar David C. Planchard David C. Planchard David C. Planchard David Planchard David C. Planchard Gabriel Corbett Tayseer Almattar Tayseer Almattar David C. Planchard

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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

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

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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 cswsa 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 theorychapter 2 part modelingchapter 3 advanced part modelingchapter 4 assembly modelingchapter 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 3DEXPERIENCE 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 sustainabilityxpress and solidworks sustainability tutorials inside of solidworks to better understand the actual workflow the cswa sd is based off the solidworks sustainable design guide that incorporates concepts including sustainability environmental assessment and life cycle impact assessment cswa s exam the certified solidworks associate simulation cswa s certification indicates a foundation in and apprentice knowledge of 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

this book is written to assist you with passing the solidworks associate level exams it provides you with detailed information and exercises that will aid you in passing the following exams certified solidworks associate cswa certified solidworks associate sustainable design cswa sd certified solidworks simulation associate finite element analysis cswsa fea and the certified solidworks associate additive manufacturing cswa am exam there are three goals for this book the primary goal of this book is not only to help you pass the cswa cswa sd cswsa fea and cswa am exams but also to ensure that you understand and comprehend the concepts and implementation details of the four certification processes the second goal is to provide the most comprehensive coverage of

cswa cswa sd cswsa fea and cswa am exam related topics available without too much coverage of topics not on the exam the third and ultimate goal is to get you from where you are today to the point that you can confidently pass the cswa cswa sd cswsa fea and cswa am exams

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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

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

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

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 cswp 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 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

assembly modeling with solidworks 2012 is written to assist the beginning solidworks user with a few months of design experience to the intermediate solidworks user who desires to enhance their skill sets in assembly modeling the book provides a solid foundation in assembly modeling using competency based projects in step by step instructions the book provides examples to start a solidworks session and to understand the following interfaces menu bar toolbar menu bar menu drop down menus context toolbars consolidated drop down toolbars system feedback icons confirmation corner heads up view toolbar commandmanager and more set system options and document properties as they apply to a part and assembly template create new solidworks folder locations document templates reference documents and design library download components from 3d contentcentral and rename and save components using solidworks explorer apply the bottom up assembly approach with two levels of configurations using the configure component tool the configure dimension tool design tables and the add configuration tool create new parts based on component features utilizing the bottom up assembly approach apply standard mates smartmates and the design library toolbox apply the top down assembly approach with two levels of configurations with in context components understand the following out of context components external references inplace mates redefining and replacing components and motion studies apply the derived feature component pattern tool linear component pattern tool and the mirror component tool along with the explode line sketch tool create a multi sheet multi view assembly drawing knowledge of custom properties in a part assembly and linked notes with the ability to incorporate configurations of an exploded view bill of materials revision tables and more address the layout based assembly approach and global variables and equations to control relationships each chapter begins with the desired outcomes and usage competencies explore assembly modeling techniques through a series of design situations industry scenarios projects and objectives chapter 9 provides a bonus section on the certified solidworks associate cswa program with sample exam questions and initial and final solidworks models passing the cswa exam proves to employers that you have the necessary fundamental engineering graphics and solidworks competencies the book compliments and enhances the solidworks tutorials although over 150 solidworks tools and commands are utilized in assembly modeling with solidworks 2012 the book is not a reference guide the book is a self paced tutorial in a realistic design setting complex models expose you to large assembly modeling techniques you focus on the design process while learning the commands relative to assemblies to obtain the most from this text you should be familiar with the solidworks user interface or other parametric modeling software application your skill sets should include the ability to create simple parts assemblies and drawings and manipulate documents through the windows operating system the authors developed the industry scenarios by combining their own industry experience with the knowledge of engineers department managers vendors and manufacturers these professionals are directly involved with solidworks everyday they create assemblies with thousands of components and drawings with hundreds of sheets their responsibilities go far beyond the creation of just a 3d model

provides an introduction to solidworks 2010 through step by step tutorials that cover such topics as linkage assembly front support assembly the fundamentals of drawing and pneumatic test module assembly

solidworks 2012 tutorial with video instruction is target towards a technical school two year college four year university or industry professional that is a beginner or intermediate cad user the text provides a student who is looking for a step by step project based approach to learning solidworks with an enclosed 1 5 hour video instruction dvd solidworks model files and preparation for the cswa exam the book is divided into two sections chapters 1 7 explore the solidworks user interface and commandmanager document and system properties simple machine parts simple and complex assemblies design tables configurations multi sheet multi view drawings boms revision tables using basic and advanced features along with intelligent modeling techniques sustainabilityxpress simulationxpress and dfmexpress chapters 8 11 prepare you for the new certified solidworks associate exam cswa the cswa certification indicates a foundation in and apprentice knowledge of 3d cad and engineering practices and principles follow the step by step instructions and develop multiple assemblies that combine over 100 extruded machined parts and components formulate the skills to create modify and edit sketches and solid features learn the techniques to reuse features parts and assemblies through symmetry patterns copied components design tables and configurations learn by doing not just by reading desired outcomes and usage competencies are listed for each chapter know your objective up front follow the steps in each chapter to achieve your design goals work between multiple documents features commands custom properties and document properties that represent how engineers and designers utilize solidworks in industry

engineering graphics with solidworks 2012 and video instruction dvd is written to assist technical school two year college four year university instructor student or industry professional that is a beginner or intermediate solidworks user the book combines the fundamentals of engineering graphics and dimensioning practices with a step by step project based approach to learning solidworks with the enclosed 1 5 hour video instruction dvd learn by doing not just by reading the book is divided into two parts engineering graphics and solidworks 3d cad software in chapter 1 through chapter 3 you explore the history of engineering graphics manual sketching techniques orthographic projection isometric projection multi view drawings dimensioning practices and the history of cad leading to the development of solidworks in chapter 4 through chapter 8 you apply engineering graphics fundamentals and learn the solidworks user interface document and system properties simple parts simple and complex assemblies design tables configurations multi sheet multi view drawings bill of materials revision tables basic and advanced features follow the step by step instructions in over 70 activities to develop eight parts four sub assemblies three drawings and six document templates formulate the skills to create and modify solid features to model a 3d flashlight assembly chapter 9 provides a bonus

section on the certified solidworks associate cswa program with sample exam questions and initial and final solidworks models passing the cswa exam proves to employers that you have the necessary fundamental engineering graphics and solidworks competencies review individual features commands and tools for each project with the book s 1 5 hour video instruction dvd and solidworks help the chapter exercises analyze and examine usage competencies based on the project objectives the book is designed to compliment the solidworks tutorials located in the solidworks help menu each section explores the solidworks online user s guide to build your working knowledge of solidworks desired outcomes and usage competencies are listed for each project know your objectives up front follow the step by step procedures to achieve your design goals work between multiple documents features commands and properties that represent how engineers and designers utilize solidworks in industry the authors developed the industry scenarios by combining their own industry experience with the knowledge of engineers department managers vendors and manufacturers these professionals are directly involved with solidworks everyday their responsibilities go far beyond the creation of just a 3d model

assembly modeling with solidworks 2010 is written to assist the beginning solidworks user with a few months of design experience to the intermediate solidworks user who desires to enhance their skill sets in assembly modeling the book provides a solid foundation in assembly modeling using competency based projects in step by step instructions the book provides examples to start a solidworks session and to understand the following interfaces menu bar toolbar menu bar menu drop down menus context toolbars consolidated drop down toolbars system feedback icons confirmation corner heads up view toolbar commandmanager and more set system options and document properties as they applied to a part and assembly template create new solidworks folder locations document templates reference documents and design library download components from 3d contentcentral and rename and save components using solidworks explorer apply the bottom up assembly approach with two levels of configurations using the configure component tool the configure dimension tool design tables and the add configuration tool create new parts based on component features utilizing the bottom up assembly approach apply standard mates smartmates and the design library toolbox apply the top down assembly approach with two levels of configurations with in context components understand the following out of context components external references inplace mates redefining and replacing components and motion studies apply the derived feature component pattern tool linear component pattern tool and the mirror component tool along with the explode line sketch tool create a multi sheet multi view assembly drawing knowledge of custom properties in a part assembly and linked notes with the ability to incorporate configurations of an exploded view bill of materials revision tables and more address the layout based assembly approach and link values and equations to control relationships each chapter begins with the desired outcomes and usage competencies explore assembly modeling techniques through a series of design situations industry scenarios projects and objectives chapter 9 provides a bonus section on the certified solidworks associate cswa program

with sample exam questions and initial and final solidworks models passing the cswa exam proves to employers that you have the necessary fundamental engineering graphics and solidworks competencies the book compliments and enhances the solidworks tutorials although over 150 solidworks tools and commands are utilized in assembly modeling with solidworks 2010 the book is not a reference guide the book is a self paced tutorial in a realistic design setting complex models expose you to large assembly modeling techniques you focus on the design process while learning the commands relative to assemblies to obtain the most from this text you should be familiar with the solidworks user interface or other parametric modeling software application your skill sets should include the ability to create simple parts assemblies and drawings and manipulate documents through the windows operating system the authors developed the industry scenarios by combining their own industry experience with the knowledge of engineers department managers vendors and manufacturers these professionals are directly involved with solidworks everyday they create assemblies with thousands of components and drawings with hundreds of sheets their responsibilities go far beyond the creation of just a 3d model initial and final models are provided on the cd accompanying the book

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

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

achieve associate level certification in solidworks even if you are a complete beginner about this video discover solidworks tools and related concepts reinforce your knowledge through exercises that are bundled with each section in detail this is a streamlined course that will take you from the basics through to becoming a certified solidworks associate this interactive course will enable you to use solidworks to design effectively you ll not only explore the theoretical aspects but also gain hands on experience with over 70 lectures comprising learning material as well as exercises this course ensures you steadily develop your solidworks skills you ll begin by focusing on essential solidworks concepts next the course will help you get familiar with the different tools along with guiding you through the solidworks interface as you progress you ll gain useful insights into 3d modeling with features such as fillet chamfers and lofted bosses and cut you ll learn to further enhance your models by exploring different materials all along the course will provide hands on instructions with examples to help you learn effectively by the end of this course you will have gained the skills you need to confidently design 3d models and become a certified solidworks associate

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

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