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SOLIDWORKS® 2020 - 2023

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Solidworks Certification Exam Review Study Guide

Randy Shih, Paul Schilling



Solidworks Certification Exam Review Study Guide:

Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSDA, CSWSA-FEA (SOLIDWORKS 2015 - 2017)

David Planchard, 2017-02 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

Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSWA-SD, CSWSA-FEA, CSWA-AM (2017-2019) David Planchard, 2019-01-15 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

Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSWA-SD, CSWA-S, CSWA-AM (SOLIDWORKS 2019 - 2021) David Planchard, 2020-11 This book is written to assist you with passing the SOLIDWORKS associate level exams It provides you with detailed information and exercises that will

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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 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 *Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSWA-SD, CSWA-S, CSWA-AM (SOLIDWORKS 2022 - 2025)* David Planchard, 2025 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 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

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Mastering SolidWorks: A Complete Guide to 3D Design and Modeling Pasquale De Marco, 2025-04-18 Journey into the realm of 3D design and modeling with SolidWorks the industry leading software trusted by professionals worldwide This comprehensive guidebook unlocks the full potential of SolidWorks empowering you to create intricate 3D models assemblies and engineering drawings with precision and ease Written in a clear and engaging style this book takes you on a step by step journey through the SolidWorks workflow from sketching and

modeling to assembly and detailing Master the fundamentals of parametric modeling the core concept behind SolidWorks and learn to create parametric features that automatically update when you make changes to the design Explore the vast library of SolidWorks tools and techniques including extrusions revolves fillets chamfers patterns and features Discover how to create complex geometries with precision and ease and delve into advanced modeling concepts such as surface modeling rendering and simulation With this book as your guide you ll learn not only how to use SolidWorks but also how to think like a designer solve problems creatively and communicate your ideas effectively through engineering drawings Whether you re an aspiring engineer a seasoned designer or a hobbyist with a passion for 3D modeling this book is your passport to success in the world of SolidWorks Key Features Comprehensive coverage of SolidWorks from basic to advanced concepts Step by step instructions and hands on exercises for practical learning In depth exploration of parametric modeling surface modeling rendering and simulation Expert insights and best practices for creating high quality 3D models and assemblies Real world examples and case studies to illustrate the power of SolidWorks Unlock your creativity and transform your ideas into tangible creations with SolidWorks Get your copy of this essential guide today and start your journey to 3D design mastery If you like this book write a review on google books [SOLIDWORKS 2019 and Engineering Graphics](#) Randy Shih,2019 SOLIDWORKS 2019 and Engineering Graphics An Integrated Approach combines an introduction to SOLIDWORKS 2019 with a comprehensive coverage of engineering graphics principles Not only will this unified approach give your course a smoother flow your students will also save money on their textbooks What s more the exercises in this book cover the performance tasks that are included on the Certified SOLIDWORKS Associate CSWA Examination Reference guides located at the front of the book and in each chapter show where these performance tasks are covered The primary goal of SOLIDWORKS 2019 and Engineering Graphics An Integrated Approach is to introduce the aspects of Engineering Graphics with the use of modern Computer Aided Design package SOLIDWORKS 2019 This text is intended to be used as a training guide for students and professionals The chapters in this text proceed in a pedagogical fashion to guide you from constructing basic shapes to making complete sets of engineering drawings This text takes a hands on exercise intensive approach to all the important concepts of Engineering Graphics as well as in depth discussions of parametric feature based CAD techniques This textbook contains a series of sixteen chapters with detailed step by step tutorial style lessons designed to introduce beginning CAD users to the graphics language used in all branches of technical industry This book does not attempt to cover all of SOLIDWORKS 2019 s features only to provide an introduction to the software It is intended to help you establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering **SOLIDWORKS 2025 and Engineering Graphics** , Combines engineering graphics with SOLIDWORKS 2025 instruction Uses a tutorial style with step by step instructions Contains numerous exercises and review questions designed for classroom use Prepares you to take the Certified SOLIDWORKS Associate Exam Includes SOLIDWORKS models of the sketching exercises to aid students visualization

Features a chapter introducing you to 3D printing SOLIDWORKS 2025 and Engineering Graphics An Integrated Approach combines an introduction to SOLIDWORKS 2025 with a comprehensive coverage of engineering graphics principles Not only will this unified approach give your course a smoother flow your students will also save money on their textbooks What s more the exercises in this book cover the performance tasks that are included on the Certified SOLIDWORKS Associate CSWA Examination Reference guides located at the front of the book and in each chapter show where these performance tasks are covered The primary goal of SOLIDWORKS 2025 and Engineering Graphics An Integrated Approach is to introduce the aspects of Engineering Graphics with the use of modern Computer Aided Design package SOLIDWORKS 2025 This text is intended to be used as a training guide for students and professionals The chapters in this text proceed in a pedagogical fashion to guide you from constructing basic shapes to making complete sets of engineering drawings This text takes a hands on exercise intensive approach to all the important concepts of Engineering Graphics as well as in depth discussions of parametric feature based CAD techniques This textbook contains a series of sixteen chapters with detailed step by step tutorial style lessons designed to introduce beginning CAD users to the graphics language used in all branches of technical industry This book does not attempt to cover all of SOLIDWORKS 2025 s features only to provide an introduction to the software It is intended to help you establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering Table of Contents 1 Introduction 2 Parametric Modeling Fundamentals 3 Constructive Solid Geometry Concepts 4 Geometric Constructions 5 Feature Design Tree 6 Geometric Construction Tools 7 Orthographic Projections and Multiview Constructions 8 Dimensioning and Notes 9 Tolerancing and Fits 10 Pictorials and Sketching 11 Section Views Symmetrical Features in designs 12 Auxiliary Views and Reference Geometry 13 Introduction to 3D Printing 14 Threads and Fasteners 15 Assembly Modeling and Working Drawings 16 CSWA Exam Preparation Appendix Index

Parametric Modeling with SOLIDWORKS 2025 Paul J. Schilling, Randy H. Shih, Teaches you SOLIDWORKS 2025 and parametric modeling with hands on tutorials Also covers sheet metal SimulationXpress basic motion analysis collision detection and more Prepares you to take the Certified SOLIDWORKS Associate Exam Includes a chapter introducing you to 3D printing Parametric Modeling with SOLIDWORKS 2025 contains a series of seventeen tutorial style lessons designed to introduce SOLIDWORKS 2025 solid modeling and parametric modeling techniques and concepts This book introduces SOLIDWORKS 2025 on a step by step basis starting with constructing basic shapes all the way through to the creation of assembly drawings and motion analysis This book takes a hands on exercise intensive approach to all the important parametric modeling techniques and concepts Each lesson introduces a new set of commands and concepts building on previous lessons The lessons guide the user from constructing basic shapes to building intelligent solid models assemblies and creating multi view drawings This book also covers some of the more advanced features of SOLIDWORKS 2025 including how to use the SOLIDWORKS Design Library basic motion analysis collision detection and analysis with SimulationXpress The exercises in this book cover the

performance tasks that are included on the Certified SOLIDWORKS Associate CSWA Examination Reference guides located at the front of the book and in each chapter show where these performance tasks are covered This book also introduces you to the general principles of 3D printing including a brief history of 3D printing the types of 3D printing technologies commonly used filaments and the basic procedure for printing a 3D model 3D printing makes it easier than ever for anyone to start turning their designs into physical objects and by the end of this book you will be ready to start printing out your own designs Table of Contents Certified SOLIDWORKS Associate CSWA Exam Overview 1 Introduction Getting started 2 Parametric Modeling Fundamentals 3 Constructive Solid Geometry Concepts 4 Feature Design Tree 5 Geometric Relations Fundamentals 6 Geometric Construction Tools 7 Parent Child Relationships and the BORN Technique 8 Part Drawings and Associative Functionality 9 Reference Geometry and Auxiliary Views 10 Introduction to 3D Printing 11 Symmetrical Features in Designs 12 Advanced 3D Construction Tools 13 Sheet Metal Designs 14 Assembly Modeling Putting it all Together 15 Design Library and Basic Motion Study 16 Design Analysis with SimulationXpress 17 CSWA Exam Preparation Index

Parametric Modeling with SOLIDWORKS 2022 Randy Shih,Paul Schilling,2022-07 Parametric Modeling with SOLIDWORKS 2022 contains a series of seventeen tutorial style lessons designed to introduce SOLIDWORKS 2022 solid modeling and parametric modeling techniques and concepts This book introduces SOLIDWORKS 2022 on a step by step basis starting with constructing basic shapes all the way through to the creation of assembly drawings and motion analysis This book takes a hands on exercise intensive approach to all the important parametric modeling techniques and concepts Each lesson introduces a new set of commands and concepts building on previous lessons The lessons guide the user from constructing basic shapes to building intelligent solid models assemblies and creating multi view drawings This book also covers some of the more advanced features of SOLIDWORKS 2022 including how to use the SOLIDWORKS Design Library basic motion analysis collision detection and analysis with SimulationXpress The exercises in this book cover the performance tasks that are included on the Certified SOLIDWORKS Associate CSWA Examination Reference guides located at the front of the book and in each chapter show where these performance tasks are covered This book also introduces you to the general principles of 3D printing including a brief history of 3D printing the types of 3D printing technologies commonly used filaments and the basic procedure for printing a 3D model 3D printing makes it easier than ever for anyone to start turning their designs into physical objects and by the end of this book you will be ready to start printing out your own designs

Parametric Modeling with SOLIDWORKS 2024 Randy Shih,Paul Schilling,2024 Teaches you SOLIDWORKS 2024 and parametric modeling with hands on tutorials Also covers sheet metal SimulationXpress basic motion analysis collision detection and more Prepares you to take the Certified SOLIDWORKS Associate Exam Includes a chapter introducing you to 3D printing Parametric Modeling with SOLIDWORKS 2024 contains a series of seventeen tutorial style lessons designed to introduce SOLIDWORKS 2024 solid modeling and parametric modeling techniques and concepts This book

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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

Parametric Modeling With Solidworks 2010 Randy H. Shih,2010 Parametric Modeling with SolidWorks 2010 contains a series of fifteen tutorial style lessons designed to introduce SolidWorks 2010 solid modeling and parametric modeling techniques and concepts This book introduces SolidWorks 2010 on a step by step basis starting with constructing basic shapes all the way through to the creation of assembly drawings and motion analysis This book takes a hands on exercise intensive approach to all the important Parametric Modeling techniques and concepts Each lesson introduces a new set of commands and concepts building on previous lessons The lessons guide the user from constructing basic shapes to building intelligent solid models assemblies and creating multi view drawings This book also covers some of the more advanced features of SolidWorks 2010 including how to use the SolidWorks Design Library basic motion analysis collision detection and analysis with SimulationXpress The exercises in this book cover the performance tasks that are included on the Certified SolidWorks Associate CSWA Examination Reference guides located at the front of the book and in each chapter show where these performance tasks are covered SOLIDWORKS 2021 and Engineering Graphics Randy Shih,2021-02

This book combines an introduction to SOLIDWORKS 2021 with a comprehensive coverage of engineering graphics principles **Parametric Modeling with SolidWorks 2011** Randy Shih,Paul J. Schilling,2011 Parametric Modeling with SolidWorks 2011 contains a series of sixteen tutorial style lessons designed to introduce SolidWorks 2011 solid modeling and parametric modeling techniques and concepts This book introduces SolidWorks 2011 on a step by step basis starting with constructing basic shapes all the way through to the creation of assembly drawings and motion analysis This book takes a hands on exercise intensive approach to all the important Parametric Modeling techniques and concepts Each lesson introduces a new set of commands and concepts building on previous lessons The lessons guide the user from constructing basic shapes to building intelligent solid models assemblies and creating multi view drawings This book also covers some of

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SOLIDWORKS 2020 and Engineering Graphics

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SOLIDWORKS 2021 for Designers, 19th Edition

Prof. Sham Tickoo,2021-02-28 SOLIDWORKS 2021 for Designers book is written to help the readers effectively use the modeling and assembly tools by utilizing the parametric and feature based approach of SOLIDWORKS 2021 This book provides detailed description of the tools that are commonly used in modeling assembly and sheet metal as well as in surfacing This book further elaborates on the procedures of generating the drawings of a model or assembly which are used for documentation of a model or assembly Special emphasis has been laid on the introduction of concepts which have been explained using detailed textual description along with graphical examples The examples and tutorials used in this book ensure that the users can relate the information provided in this textbook with the practical industry designs In addition two student projects and a SOLIDWORKS Certification Exam questions set have also been added in this edition for the students to practice and get familiarized with SOLIDWORKS certification questions Salient Features Consists of 21 chapters that are organized in a pedagogical sequence Comprehensive coverage of SOLIDWORKS 2021 concepts and techniques Hundreds of illustrations and tutorial approach to explain the concepts of SOLIDWORS 2021 Summary on the first page of the topics that are covered in the chapter Step by step instructions that guide the users

through the learning process Real world mechanical engineering designs as tutorials and projects Additional information throughout the book in the form of notes and tips Self Evaluation Tests and Review Questions at the end of the chapters for the users to assess their knowledge Table of Contents Chapter 1 Introduction to SOLIDWORKS 2021 Chapter 2 Drawing Sketches for Solid Models Chapter 3 Editing and modifying Sketches Chapter 4 Adding Relations and Dimensions to Sketches Chapter 5 Advanced Dimensioning Techniques and Base Feature Options Chapter 6 Creating Reference Geometries Chapter 7 Advanced Modeling Tools I Chapter 8 Advanced Modeling Tools II Chapter 9 Editing Features Chapter 10 Advanced Modeling Tools III Chapter 11 Advanced Modeling Tools IV Chapter 12 Assembly Modeling I Chapter 13 Assembly Modeling II Chapter 14 Working with Drawing View I Chapter 15 Working with Drawing View II Chapter 16 Surfacing Modeling Chapter 17 Working with Blocks Chapter 18 Sheet Metal Design Chapter 19 Equations Configurations and Library Features Chapter 20 Motion Study Chapter 21 Introduction to Mold Design Student Projects SOLIDWORKS Certification Exam Index

Parametric Modeling with SOLIDWORKS 2019 Paul Schilling,Randy Shih,2019 Parametric Modeling with SOLIDWORKS 2019 contains a series of seventeen tutorial style lessons designed to introduce SOLIDWORKS 2019 solid modeling and parametric modeling techniques and concepts This book introduces SOLIDWORKS 2019 on a step by step basis starting with constructing basic shapes all the way through to the creation of assembly drawings and motion analysis This book takes a hands on exercise intensive approach to all the important parametric modeling techniques and concepts Each lesson introduces a new set of commands and concepts building on previous lessons The lessons guide the user from constructing basic shapes to building intelligent solid models assemblies and creating multi view drawings This book also covers some of the more advanced features of SOLIDWORKS 2019 including how to use the SOLIDWORKS Design Library basic motion analysis collision detection and analysis with SimulationXpress The exercises in this book cover the performance tasks that are included on the Certified SOLIDWORKS Associate CSWA Examination Reference guides located at the front of the book and in each chapter show where these performance tasks are covered This book also introduces you to the general principles of 3D printing including a brief history of 3D printing the types of 3D printing technologies commonly used filaments and the basic procedure for printing a 3D model 3D printing makes it easier than ever for anyone to start turning their designs into physical objects and by the end of this book you will be ready to start printing out your own designs

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