

SURFACING EXERCISE Nr. 2

And now, let's convert the surface into a solid.

Use the Thicken CMD

 **Thicken**

 1.6 mm to inside - Solidifying

✓ X

Thicken Parameters

 SKETCH

Thickness

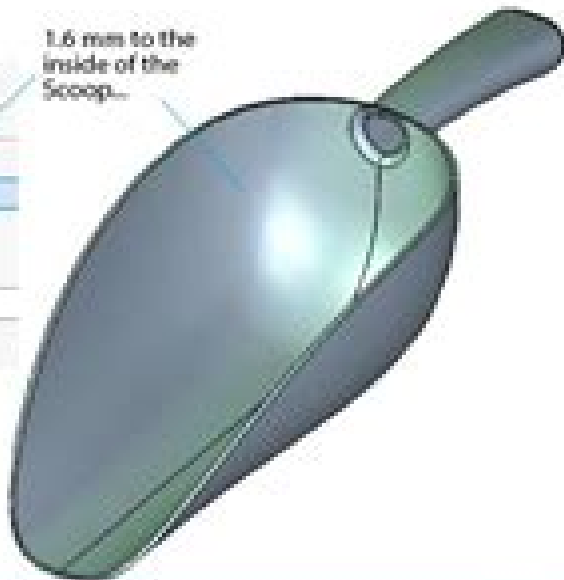
1.60mm

 Merge result

And we get ONE solid now...

•  Solid Bodies(1)
 SCOOP

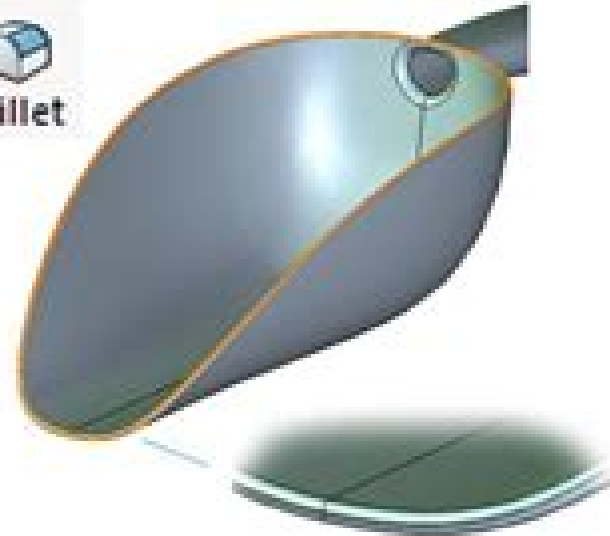
1.6 mm to the inside of the Scoop...



Fillet both indicated edges with 0.7 mm Radius...



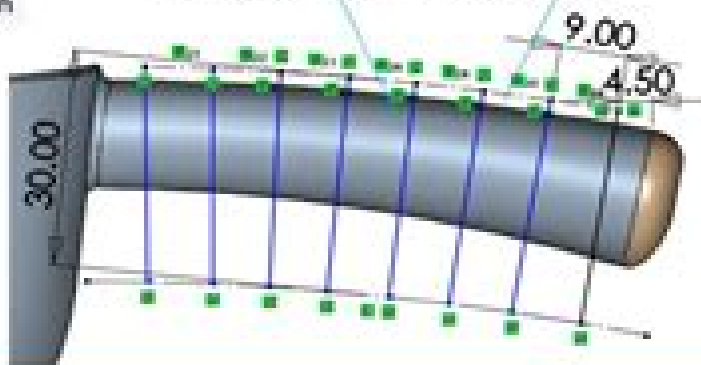
Fillet



On FP open a new Sk, and draw something like this...

Just try that these lines are as perpendicular as you can with this edge

 **Sketch**



Use the Split Line cmd to divide the indicated face into multiple faces...

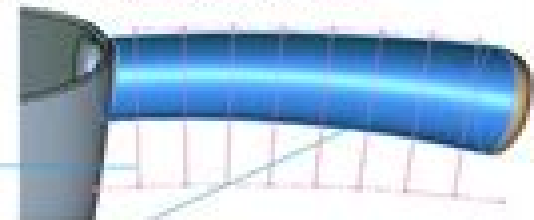
 **Split Line**

✓ X

Selections

 Per Creating Split lines as handle

 **Pattern To**



 **Split Line**

And we get this...



Solidworks Tutorials Guide Surfacing

Matt Lombard



Solidworks Tutorials Guide Surfacing:

Commands Guide Tutorial for Solidworks 2010 David C. Planchard, Marie P. Planchard, 2010 The Commands Guide Tutorial for SolidWorks 2010 is a comprehensive reference book written to assist beginner to intermediate users of SolidWorks SolidWorks is an immense software package and no one book can cover all topics for all users The book provides a centralized reference location to address many of the System and Document properties FeatureManagers PropertyManagers ConfigurationManagers and RenderManagers along with 2D and 3D Sketch tools Sketch entities 3D Feature tools Motion Study SustainabilityXpress DFMXpress SimulationXpress Sheet Metal PhotoView 360 and more Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SolidWorks 2010 software If you are completely new to SolidWorks you should read Chapter 1 in detail and complete Lesson 1 Lesson 2 and Lesson 3 in the SolidWorks Tutorials If you are familiar with an earlier release of SolidWorks you still might want to skim Chapter 1 to become acquainted with some of the commands menus and features that you have not used or you can simply jump to any section in any chapter Each chapter 17 total provides detailed PropertyManager information on key topics with individual stand alone short tutorials to reinforce and demonstrate the functionality and ease of the SolidWorks tool or feature All models for the 230 plus tutorials are located on the enclosed CD with their solution initial and final Learn by doing not just by reading Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components design tables configurations and more The book is designed to compliment the Online Tutorials and Online Help contained in SolidWorks 2010 The goal is to illustrate how multiple design situations and systematic steps combine to produce successful designs The authors developed the tutorials by combining their own industry experience with the knowledge of engineers department managers vendors and manufacturers These professionals are directly involved with SolidWorks everyday Their responsibilities go far beyond the creation of just a 3D model

Commands Guide Tutorial for SolidWorks 2013 David C. Planchard, Marie P. Planchard, 2012-12-27 The Commands Guide Tutorial for SolidWorks 2013 is a comprehensive reference book written to assist the beginner to intermediate user of SolidWorks 2013 SolidWorks is an immense software package and no one book can cover all topics for all users This book provides a centralized reference location to address many of the tools features and techniques of SolidWorks 2013 This book covers the following System and Document properties FeatureManagers PropertyManagers ConfigurationManagers RenderManagers 2D and 3D Sketch tools Sketch entities 3D Feature tools Motion Study Sheet Metal Motion Study Sustainability Sustainability Xpress FlowXpress PhotoView 360 Pack and Go Intelligent Modeling techniques and more Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SolidWorks 2013 software If you are completely new to SolidWorks you should read Chapter 1 in detail and complete Lesson 1 Lesson 2 and Lesson 3 in the SolidWorks Tutorials If you are familiar with an earlier release of SolidWorks

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

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A Commands Guide Tutorial for SolidWorks 2007

David C. Planchard, Marie P. Planchard, 2007 [SOLIDWORKS Surface Design 2021 for Beginners and Intermediate Users](#)
Sandeep Dogra, SOLIDWORKS Surface Design 2021 for Beginners and Intermediate Users textbook has been designed for instructor led courses as well as self paced learning It is intended to help engineers and designers interested in learning SOLIDWORKS for creating real world surface models This textbook is a great help for SOLIDWORKS users new to surface design It consists of total 106 pages covering the surface design environment of SOLIDWORKS It teaches users to use SOLIDWORKS mechanical design software for creating parametric complex shape surface models that are not possible to create with solid modeling due to its limitations This textbook not only focuses on the usage of the tools and commands of SOLIDWORKS for creating surface models but also on the concept of design It contains Tutorials followed by theory that provide users with step by step instructions for creating surface designs Moreover it ends with Hands on Test Drives which allow users to experience the user friendly and technical capabilities of SOLIDWORKS Main Features of the Textbook Comprehensive coverage of tools Step by step real world tutorials with every chapter Hands on test drives to enhance the

skills at the end of every chapter Additional notes and tips Customized content for faculty PowerPoint Presentations Free learning resources for faculty and students Technical support for the book by contacting info.cadartifex.com

Mastering Surface Modeling with SOLIDWORKS 2023 Lani Tran, 2023-06-12 Teaches SOLIDWORKS users advanced surface modeling skills Includes tips and techniques for hybrid modeling Uses clear step by step instructions to help you create real world projects Covers how to make molded parts and repair and patch surfaces Mastering Surface Modeling with SOLIDWORKS 2023 focuses on surfacing tools an important aspect of SOLIDWORKS design capabilities that fills in the gaps that might be left by using solid modeling alone If you are a SOLIDWORKS user currently relying on solid modeling for designs or are just not familiar with surface modeling techniques this book will add these skills to your repertoire to help you create the highest quality models For instructors teaching this advanced skillset this book's proven techniques practical examples and training files will give students a broad understanding of the procedures needed to build freeform shapes and place them well on their way to creating sophisticated surface designs of their own This manual is one of only a few on the market completely dedicated to mastering surfacing tools Each of the ten chapters has clean clear instructions with plentiful diagrams to lead you through carefully selected exercises based on the author's own work experience and techniques You are guided from a review of surfacing basics to advanced surface modeling of real world objects to an explanation and example of hybrid modeling to surface repairs and patches Peruse the table of contents and pick and choose the chapters you are interested in or complete all chapters consecutively to give you an in depth understanding of all the tools and procedures needed to create surface designs The projects you will work on in this book include a shoehorn computer mouse phone case a modem housing and stents Woven into each of these are procedures approaches and solutions for possible issues that might arise when you are using surfacing tools These can be applied to any project you create Each project touches on a variety of frequently used commands such as extrude loft boundary and sweep surface revolved filled split and knit using deform and configurations mirroring bodies creating an axis curve driven and circular patterns fillets and molded parts Look for the post it notes next to commands for helpful tips and definitions Throughout the book you will learn techniques of hybrid modeling the combination of surface and solid modeling The last part of the book takes it one step further Chapter 9 examines hybrid modeling in depth guiding you step by step from a 2D sketch to the final product a handle housing The last two chapters focus on molded parts creating and saving visual properties of models and how to repair faulty surfaces The advanced surfacing tools and techniques in this book give you the confidence to tackle projects using hybrid modeling It is the best method to take full advantage of SOLIDWORKS modeling power and create more complex designs

SOLIDWORKS Sheet Metal and Surface Design 2023 for Beginners and Intermediate Users Sandeep Dogra, SOLIDWORKS Sheet Metal and Surface Design 2023 for Beginners and Intermediate Users textbook has been designed for instructor led courses as well as self paced learning It is intended to help engineers and designers interested in learning SOLIDWORKS for creating real

world sheet metal components and surface designs This textbook is a great help for SOLIDWORKS users new to sheet metal and surface designs It consists of total 224 pages covering the sheet metal and surface design environments of SOLIDWORKS It teaches users to use SOLIDWORKS mechanical design software for creating parametric 3D sheet metal components and complex shapes of surface models that may not be possible with solid modeling because of its limitations This textbook not only focuses on the usage of the tools and commands of SOLIDWORKS for creating sheet metal components and surface models but also on the concept of design It contains theory followed by tutorials that provide users with step by step instructions for creating sheet metal components and surface models Moreover it ends with Hands on Test Drives which allow users to experience the user friendly interface and technical capabilities of SOLIDWORKS

SOLIDWORKS 2021 Advanced Techniques Paul Tran,2021 SOLIDWORKS 2021 Advanced Techniques picks up where SOLIDWORKS 2021 Intermediate Skills leaves off Its aim is to take you from an intermediate user with a basic understanding of SOLIDWORKS and modeling techniques to an advanced user capable of creating complex models and able to use the advanced tools provided by SOLIDWORKS The text covers parts surfaces SimulationXpress sheet metal top down assemblies and core and cavity molds Every lesson and exercise in this book was created based on real world projects Each of these projects has been broken down and developed into easy and comprehensible steps Furthermore at the end of every chapter there are self test questionnaires to ensure that you have gained sufficient knowledge from each section before moving on to more advanced lessons This book takes the approach that in order to understand SOLIDWORKS inside and out you should create everything from the beginning and take it step by step Who this book is for This book is for the intermediate to advanced user who has already completed the SOLIDWORKS Basic Tools book and may have also completed the SOLIDWORKS Intermediate Skills book People who are very familiar with SOLIDWORKS and its add ins will also find this book to be a valuable resource SOLIDWORKS 2024 Intermediate Skills Paul Tran,2024 Picks up where SOLIDWORKS Basic Tools leaves off Uses a step by step tutorial approach with real world projects Comprehensive coverage of intermediate SOLIDWORKS tools and techniques Expands on Solids Surfaces Multibodies Configurations Drawings Sheet Metal and Assemblies Includes a quick reference guide This edition features a new chapter on Plastic Parts SOLIDWORKS 2024 Intermediate Skills is part of a three part series which builds on the SOLIDWORKS features learned in SOLIDWORKS 2024 Basic Tools SOLIDWORKS 2024 Intermediate Skills broadens your SOLIDWORKS knowledge base by covering such features as surveys lofts and boundaries the use of multibodies generating engineering drawings and other SOLIDWORKS functions that are critical for the effective use of this powerful software This book helps prepare you for the advanced features of SOLIDWORKS which are covered in SOLIDWORKS Advanced Techniques It uses a step by step tutorial approach with real world projects This book also features a Quick Reference Guide to the SOLIDWORKS 2024 commands icons and customized hotkeys Who s this book for This book is for the mid level user who is already familiar with the SOLIDWORKS program It is

also a great resource for the more CAD literate individuals who want to expand their knowledge of the different features that SOLIDWORKS 2024 has to offer SolidWorks Surfacing and Complex Shape Modeling Bible Matt Lombard,2011-06-24 If you want to gain proficiency and expertise with SolidWorks surface modeling this is the resource for you You ll learn how to apply concepts utilize tools and combine techniques and strategies in hands on tutorials This Bible covers the range from sketching splines and shelling to modeling blends and decorative features Complete with professional tips and real world examples this inclusive guide enables you to coax more out of SolidWorks surfacing tools **SolidWorks 2011 Part II - Advanced Techniques** Paul Tran,2011 SolidWorks 2011 Part II Advanced Techniques picks up where SolidWorks 2011 Part I Basic Tools leaves off Its aim is to take you from an intermediate user with a basic understanding of SolidWorks and modeling techniques to an advanced user capable of creating complex models and able to use the advanced tools provided by SolidWorks The text covers parts surfaces SimulationXpress sheet metal top down assemblies and core and cavity molds Every lesson and exercise in this book was created based on real world projects Each of these projects have been broken down and developed into easy and comprehensible steps for the reader Furthermore at the end of every chapter there are self test questionnaires to ensure that the reader has gained sufficient knowledge from each section before moving on to more advanced lessons This book takes the approach that in order to understand SolidWorks inside and out the reader should create everything from the beginning and take it step by step *SolidWorks 2011 Parts Bible* Matt Lombard,2011-03-29 Like the SolidWorks Bible but want more on parts New version provides greater detail than ever SolidWorks fans have long sought more detail and information on SolidWorks topics and now you have it We took our popular SolidWorks Bible divided it into two books SolidWorks 2011 Parts Bible and SolidWorks 2011 Assemblies Bible and packed each new book with a host of items from your wish lists such as more extensive coverage of the basics additional tutorials and expanded coverage of topics largely ignored by other books This SolidWorks Parts Bible shows you how to do parts modeling and parts drawing using the latest version of the 3D solid modeling program SolidWorks Thoroughly describes best practices and beginning to advanced techniques using both video and text Expands coverage of topics that readers have asked for including Pack and Go search criteria and greater coverage of file management Written by well known and well respected SolidWorks guru Matt Lombard Can stand alone or also with the SolidWorks 2011 Assemblies Bible for a complete SolidWorks reference set Keep both the SolidWorks 2011 Parts Bible and the SolidWorks 2011 Assemblies Bible on your desk and you ll have the best resource set out there on SolidWorks SOLIDWORKS 2017 Advanced Techniques Paul Tran,2016-12 SOLIDWORKS 2017 Advanced Techniques picks up where SOLIDWORKS 2017 Intermediate Skills leaves off Its aim is to take you from an intermediate user with a basic understanding of SOLIDWORKS and modeling techniques to an advanced user capable of creating complex models and able to use the advanced tools provided by SOLIDWORKS The text covers parts surfaces SimulationXpress sheet metal top down assemblies and core and cavity molds Every lesson and

exercise in this book was created based on real world projects Each of these projects have been broken down and developed into easy and comprehensible steps Furthermore at the end of every chapter there are self test questionnaires to ensure that you have gained sufficient knowledge from each section before moving on to more advanced lessons This book takes the approach that in order to understand SOLIDWORKS inside and out you should create everything from the beginning and take it step by step SolidWorks 2013 Tutorial David C. Planchard,Marie P. Planchard,2013 SolidWorks 2013 Tutorial with Video Instruction is targeted 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 DFMXpress 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 *SolidWorks 2014 Part II - Advanced Techniques* Paul Tran,2013-12 SolidWorks 2014 Part II Advanced Techniques picks up where SolidWorks 2014 Part I Basic Tools leaves off Its aim is to take you from an intermediate user with a basic understanding of SolidWorks and modeling techniques to an advanced user capable of creating complex models and able to use the advanced tools provided by SolidWorks The text covers parts surfaces SimulationXpress sheet metal top down assemblies and core and cavity molds Every lesson and exercise in this book was created based on real world projects Each of these projects have been broken down and developed into easy and comprehensible steps for the reader Furthermore at the end of every chapter there are self test questionnaires to ensure that the reader has gained sufficient knowledge from each section before moving on to more advanced lessons This book takes the approach that in order to understand SolidWorks inside and out the reader should create everything from the beginning and take it step by step **SolidWorks 2015 Tutorial with Video Instruction** David Planchard,2014-12 SolidWorks 2015 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 video instruction SolidWorks model files and preparation for the Certified Associate Mechanical Design CSWA exam The book is divided into three sections Chapters 1 6 explore the SolidWorks User Interface and CommandManager Document and System properties simple machine parts simple and complex assemblies proper design intent design tables configurations multi sheet multi view drawings BOMs Revision tables using basic and advanced features Chapters 7 10 prepare you for the Certified Associate Mechanical Design CSWA exam The certification indicates a foundation in and apprentice knowledge of 3D CAD and engineering practices and principles Review Chapter 11 on Additive Manufacturing 3D printing and its benefits and features Understand the terms and technology used in low cost 3D printers Follow the step by step instructions and develop multiple assemblies that combine over 100 extruded machined parts and components Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components apply proper design intent design tables and configurations Learn by doing not just by reading Desired outcomes and usage competencies are listed for each chapter Know your objective up front Follow the steps in each chapter to achieve your design goals Work between multiple documents features commands custom properties and document properties that represent how engineers and designers utilize SolidWorks in industry

SolidWorks 2015 Part II - Advanced Techniques Paul Tran,2014-12-12 SolidWorks 2015 Part II Advanced Techniques picks up where SolidWorks 2015 Part I Basic Tools leaves off Its aim is to take you from an intermediate user with a basic understanding of SolidWorks and modeling techniques to an advanced user capable of creating complex models and able to use the advanced tools provided by SolidWorks The text covers parts surfaces SimulationXpress sheet metal top down assemblies and core and cavity molds Every lesson and exercise in this book was created based on real world projects Each of these projects have been broken down and developed into easy and comprehensible steps for the reader Furthermore at the end of every chapter there are self test questionnaires to ensure that the reader has gained sufficient knowledge from each section before moving on to more advanced lessons This book takes the approach that in order to understand SolidWorks inside and out the reader should create everything from the beginning and take it step by step Who this book is for This book is for the intermediate user who has already completed the Part I Basic Tools book or someone who is very familiar with the SolidWorks Program and its add ins

Advanced SOLIDWORKS 2022 for Designers, 20th Edition Prof. Sham Tickoo,2022-09-07 The Advanced SOLIDWORKS 2022 for Designers book has been written to help the users who are interested in learning 3D designs This book explains in detail the procedure of creating complex surface and sheet metal designs saving sketches as blocks creating mechanisms using blocks working with equations configurations and library features Apart from these topics the book also describes motion study and mold design concepts Additionally some real world projects are included that will help readers to related the concepts learned through

the book with the Industry designs Also a number of real world mechanical engineering industry examples tutorials and exercises have been used for the users to understand the software easily and effectively Salient Features Consists of 8 chapters that are organized in a pedagogical sequence Comprehensive coverage of SOLIDWORKS 2022 concepts and techniques Hundreds of illustrations and tutorial approach to explain the advanced concepts of SOLIDWORKS 2022 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 Additional real world practice projects Table of Contents Chapter 1 Surface Modeling Chapter 2 Working with Blocks Chapter 3 Sheet Metal Design Chapter 4 Equations Configurations and Library Features Chapter 5 Motion Study Chapter 6 Introduction to Mold Design Chapter 7 Working with SOLIDWORKS Simulation Chapter 8 Projects Index

Certified SOLIDWORKS Professional Advanced Preparation Material (SOLIDWORKS 2021) Paul Tran, 2020-12-11 The CSWPA is a set of exams designed to demonstrate your advanced abilities in five distinct areas of SOLIDWORKS By passing the CSWPA exams you prove to potential employers that you have an advanced skill set within SOLIDWORKS and you become more desirable in the job market Certified SOLIDWORKS Professional Advanced Preparation Material is intended for the SOLIDWORKS user who has already passed the CSWP exam and is ready to advance to the next level This book covers the five CSWPA examinations Sheet Metal Weldments Surfacing Mold Tools and Drawing Tools The lessons in this book were created based on the actual CSWPA examinations Each of these projects has been broken down and developed into easy and comprehensible steps for the reader Every challenge is explained very clearly in short chapters ranging from 30 to 50 pages Each step comes with a screen shot to help you understand the main concept of each design more easily Learn the CSWP Advanced Preparation Materials at your own pace as you progress from Parts Assemblies Drawings and then to more complex design challenges To get the most out of this CSWPA Certification Preparation book it is strongly recommended that you have studied and completed all the lessons in the Basic Tools Intermediate Skills and Advanced Techniques books It is also a great resource for the more CAD literate individuals who want to expand their knowledge of the different features that SOLIDWORKS 2021 has to offer This book is a great resource to prepare for and pass the CSWPA exams which will prove your expertise and further your career After completing at least four of the five CSWPA exams you will become eligible to try for the highest level SOLIDWORKS certification the Certified SOLIDWORKS Expert Table of Contents 1 Drawing Tools 2 Mold Tools 3 Weldments 4 Sheet Metal 5 Surfacing Glossary Index SOLIDWORKS Quick Guide

Adopting the Tune of Term: An Emotional Symphony within **Solidworks Tutorials Guide Surfacing**

In some sort of used by screens and the ceaseless chatter of instant communication, the melodic splendor and psychological symphony created by the published word frequently disappear in to the backdrop, eclipsed by the constant noise and disruptions that permeate our lives. Nevertheless, set within the pages of **Solidworks Tutorials Guide Surfacing** a wonderful literary prize brimming with natural thoughts, lies an immersive symphony waiting to be embraced. Constructed by a wonderful composer of language, that interesting masterpiece conducts readers on a mental journey, skillfully unraveling the concealed melodies and profound influence resonating within each cautiously crafted phrase. Within the depths with this poignant evaluation, we can investigate the book is key harmonies, analyze their enthralling publishing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

https://letsgetcooking.org.uk/book/Resources/fetch.php/Stihl_Fs_450_Repair_Manual.pdf

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Solidworks Tutorials Guide Surfacing Introduction

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