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Advanced Surface Modeling

Solidworks 2015 Surface Modeling Training Manual

Hussin A.Rothana



Solidworks 2015 Surface Modeling Training Manual:

Beginner's Guide to SolidWorks 2015 - Level II Alejandro Reyes, 2015-02 Beginner's Guide to SolidWorks 2015 Level II starts where Beginner's Guide Level I ends following the same easy to read style and companion video instruction but this time covering advanced topics and techniques The purpose of this book is to teach advanced techniques including sheet metal surfacing how to create components in the context of an assembly and reference other components Top down design propagate design changes with SolidWorks parametric capabilities mold design welded structures and more while explaining the basic concepts of each trade to allow you to understand the how and why of each operation The author uses simple examples to allow you to better understand each command and environment as well as to make it easier to explain the purpose of each step maximizing the learning time by focusing on one task at a time This book is focused on the processes to complete the modeling of a part instead of focusing on individual software commands or operations which are generally simple enough to learn At the end of this book you will have acquired enough skills to be highly competitive when it comes to designing with SolidWorks and while there are many less frequently used commands and options available that will not be covered in this book rest assured that those covered are most of the commands used every day by SolidWorks designers The author strived hard to include the commands required in the Certified SolidWorks Associate test as listed on the SolidWorks website and some as well as several more

SolidWorks 2015 Reference Guide David Planchard, 2014-11-02 The SolidWorks 2015 Reference Guide is a comprehensive reference book written to assist the beginner to intermediate user of SolidWorks 2015 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 2015 This book covers the following System and Document

propertiesFeatureManagersPropertyManagersConfigurationManagersRenderManagers2D and 3D Sketch toolsSketch entities3D Feature toolsMotion StudySheet MetalMotion StudySolidWorks SimulationPhotoView 360Pack and Go3D PDFsIntelligent Modeling techniques3D printing terminology and more Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SolidWorks 2015 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 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 The book provides access to over 240 models their solutions and additional support materials 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 2015 The goal is to illustrate how multiple design situations and systematic steps combine to produce successful designs The author developed the tutorials by combining his own industry experience with the knowledge of engineers department managers professors vendors and manufacturers He is directly involved with SolidWorks every day and his responsibilities go far beyond the creation of just a 3D model **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

SOLIDWORKS 2015 in 5 Hours with Video Instruction David Planchard, 2015-02 SOLIDWORKS 2015 in 5 Hours with video instruction introduces the new user to the basics of using SOLIDWORKS 3D CAD software in five easy lessons This book is intended for the student or designer that needs to learn SOLIDWORKS quickly and effectively for senior capstone machine design kinematics dynamics and other engineering and technology projects that use SOLIDWORKS as a tool Engineers in industry are expected to have SOLIDWORKS skills for their company's next project Students need to learn SOLIDWORKS without taking a formal CAD course Based on years of teaching SOLIDWORKS to engineering students SOLIDWORKS 2015 in 5 Hours concentrates on the areas where the new user improves efficiency in the design modeling process By learning the correct SOLIDWORKS skills and file management techniques you gain the most knowledge in the shortest period of time You develop a mini Stirling Engine and investigate the proper design intent and constraints The mini Stirling Engine is based on the external combustion closed cycle engine of Scottish inventor Robert Stirling In addition to 3D modeling the engine can be used to teach and connect many engineering and physics principles You begin with an overview of SolidWorks and the User Interface UI its menus toolbars and commands With a quick pace you learn the essentials of 2D sketching part and assembly creation preform motion study develop detailed part and assembly drawings and much more View the provided videos for each section of the book to enhance your experience SOLIDWORKS Interface 2D Sketching Sketch Planes and Sketch tools 3D Features and Design Intent Creating an Assembly Fundamentals in Drawings Part 1 Fundamentals in Drawings Part 2

[Beginner's Guide to SolidWorks 2015 - Level I](#) Alejandro Reyes, 2015-01-14 This book is intended to help new users learn the basic concepts of SolidWorks and good solid modeling techniques in an easy to follow guide that includes video instruction It is a great starting point for those new to SolidWorks or as a teaching aid in classroom training to become familiar with the software's interface basic commands and strategies as users complete a series of models while learning different ways to accomplish a particular task At the end of this book you will have a fairly good understanding of the SolidWorks interface and the most commonly used commands for part modeling assembly and detailing after completing a series of components and their 2D drawings complete with Bill of Materials The book focuses on the processes to complete the modeling of a part instead of focusing on individual software commands or operations which are generally simple enough to learn The author strived hard to include the commands required in the Certified SolidWorks Associate test as listed on the SolidWorks website as well as several more SolidWorks is an easy to use CAD software that includes many time saving tools that will enable new and experienced users to complete design tasks faster than before Most commands covered in this book have advanced options which may not be covered in this book This is meant to be a starting point to help new users to learn the basic and most frequently used commands

Engineering Design with SolidWorks 2015 and Video Instruction David Planchard, 2014-11-28 Engineering Design with SolidWorks 2015 and video instruction is written to

assist students designers engineers and professionals The book provides a solid foundation in SolidWorks by utilizing projects with step by step instructions for the beginner to intermediate SolidWorks user Explore the user interface CommandManager menus toolbars and modeling techniques to create parts assemblies and drawings in an engineering environment Follow the step by step instructions and develop multiple parts and assemblies that combine machined plastic and sheet metal 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 Bills of Materials Custom Properties and Configurations Address various SolidWorks analysis tools and Intelligent Modeling techniques along with Additive Manufacturing 3D printing Learn by doing not just by reading Desired outcomes and usage competencies are listed for each project Know your objective up front Follow the steps in Projects 1 9 to achieve the design goals Review Project 10 on Additive Manufacturing 3D printing and its benefits and features Understand the terms and technology used in low cost 3D printers Work between multiple documents features commands and custom properties that represent how engineers and designers utilize SolidWorks in industry Review individual features commands and tools with the Video Instruction The projects contain exercises The exercises analyze and examine usage competencies Collaborate with leading industry suppliers such as SMC Corporation of America Boston Gear and 80 20 Inc Collaborative information translates into numerous formats such as paper drawings electronic files rendered images and animations On line intelligent catalogs guide designers to the product that meets both their geometric requirements and performance functionality The author developed the industry scenarios by combining his own industry experience with the knowledge of engineers department managers vendors and manufacturers These professionals are directly involved with SolidWorks every day Their responsibilities go far beyond the creation of just a 3D model The book is designed to compliment the SolidWorks Tutorials contained in SolidWorks 2015 View the provided videos in the book to enhance the user experience SolidWorks Interface 2D Sketching Sketch Planes and Sketch tools 3D Features and Design Intent Creating an Assembly Fundamentals in Drawings Part 1 Part 2

Engineering Graphics with SOLIDWORKS 2015 and Video Instruction David Planchard, 2015-01-14 Engineering Graphics with SOLIDWORKS 2015 and video instruction is written to assist the 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 video instructions Learn by doing not just by reading The book is divided into four sections Chapters 1 3 explore the history of engineering graphics manual sketching techniques orthographic projection Third vs First angle projection multi view drawings dimensioning practices ASME Y14.5 2009 standard line type fit type tolerance fasteners in general general thread notes and the history of CAD leading to the development of SOLIDWORKS Chapters 4 9 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 and Revision tables using basic and advanced features Follow the step by step instructions in over 80 activities to develop eight parts four sub assemblies three drawings and six document templates Chapter 10 provides a section on the Certified Associate Mechanical Design CSWA program with sample exam questions and initial and final SOLIDWORKS models Chapter 11 provides a section on Additive Manufacturing 3D printing and its benefits and features Understand the terms and technology used in low cost 3D printers Review individual features commands and tools using the video instruction and SOLIDWORKS Help The chapter exercises analyze and examine usage competencies based on the chapter objectives The book is designed to complement the SOLIDWORKS Tutorials located in the SOLIDWORKS Help menu 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 author developed the industry scenarios by combining his own industry experience with the knowledge of engineers department managers vendors and manufacturers These professionals are directly involved with SOLIDWORKS every day Their responsibilities go far beyond the creation of just a 3D model

Advanced CAD Modeling Nikola Vukašinić, Jože Duhovnik, 2018-11-02 The book discusses the theoretical fundamentals of CAD graphics to enhance readers understanding of surface modeling and free form design by demonstrating how to use mathematical equations to define curves and surfaces in CAD modelers Additionally it explains and describes the main approaches to creating CAD models out of 3D scans of physical objects All CAD approaches are demonstrated with guided examples and supported with comprehensive engineering explanations Furthermore each approach includes exercises for independent consolidation of advanced CAD skills This book is intended for engineers and designers who are already familiar with the basics of modern CAD tools e g feature based and solid based modeling in 3D space and would like to improve and expand their knowledge and experience It is also an easy to use guide and excellent teaching and research aid for academics and practitioners alike *Analysis of Machine Elements Using SOLIDWORKS Simulation 2015* Shahin Nudehi, John Steffen, 2015-04 Analysis of Machine Elements Using SOLIDWORKS Simulation 2015 is written primarily for first time SOLIDWORKS Simulation 2015 users who wish to understand finite element analysis capabilities applicable to stress analysis of mechanical elements The focus of examples is on problems commonly found in an introductory undergraduate Design of Machine Elements or similarly named courses In order to be compatible with most machine design textbooks this text begins with problems that can be solved with a basic understanding of mechanics of materials Problem types quickly migrate to include states of stress found in more specialized situations common to a design of mechanical elements course Paralleling this progression of problem types each chapter introduces new software concepts and capabilities Many examples are accompanied by problem solutions based on use of classical equations for stress

determination Unlike many step by step user guides that only list a succession of steps which if followed correctly lead to successful solution of a problem this text attempts to provide insight into why each step is performed This approach amplifies two fundamental tenets of this text The first is that a better understanding of course topics related to stress determination is realized when classical methods and finite element solutions are considered together The second tenet is that finite element solutions should always be verified by checking whether by classical stress equations or experimentation Each chapter begins with a list of learning objectives related to specific capabilities of the SolidWorks Simulation program introduced in that chapter Most software capabilities are repeated in subsequent examples so that users gain familiarity with their purpose and are capable of using them in future problems All end of chapter problems are accompanied by evaluation check sheets to facilitate grading assignments

Space Modeling with SolidWorks and NX Jože Duhovnik,Ivan Demsar,Primož Drešar,2014-07-14 Through a series of step by step tutorials and numerous hands on exercises this book aims to equip the reader with both a good understanding of the importance of space in the abstract world of engineers and the ability to create a model of a product in virtual space a skill essential for any designer or engineer who needs to present ideas concerning a particular product within a professional environment The exercises progress logically from the simple to the more complex while Solid Works or NX is the software used the underlying philosophy is applicable to all modeling software In each case the explanation covers the entire procedure from the basic idea and production capabilities through to the real model the conversion from 3D model to 2D manufacturing drawing is also clearly explained Topics covered include modeling of prism axisymmetric symmetric and sophisticated shapes digitization of physical models using modeling software creation of a CAD model starting from a physical model free form surface modeling modeling of product assemblies following bottom up and top down principles and the presentation of a product in accordance with the rules of technical documentation This book which includes more than 500 figures will be ideal for students wishing to gain a sound grasp of space modeling techniques Academics and professionals will find it to be an excellent teaching and research aid and an easy to use guide

Engineering Design with SOLIDWORKS 2016 and Video Instruction David Planchard,2015-12 Engineering Design with SOLIDWORKS 2016 and video instruction is written to assist students designers engineers and professionals The book provides a solid foundation in SOLIDWORKS by utilizing projects with step by step instructions for the beginner to intermediate SOLIDWORKS user Explore the user interface CommandManager menus toolbars and modeling techniques to create parts assemblies and drawings in an engineering environment Follow the step by step instructions and develop multiple parts and assemblies that combine machined plastic and sheet metal 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 Bills of Materials Custom Properties and Configurations Address various SOLIDWORKS analysis tools and Intelligent Modeling techniques along with Additive Manufacturing 3D printing Learn by

doing not just by reading Desired outcomes and usage competencies are listed for each project Know your objective up front Follow the steps in Projects 1 9 to achieve the design goals Review Project 10 on Additive Manufacturing 3D printing and its benefits and features Understand the terms and technology used in low cost 3D printers Work between multiple documents features commands and custom properties that represent how engineers and designers utilize SOLIDWORKS in industry Review individual features commands and tools with the Video Instruction The projects contain exercises The exercises analyze and examine usage competencies Collaborate with leading industry suppliers such as SMC Corporation of America Boston Gear and 80 20 Inc Collaborative information translates into numerous formats such as paper drawings electronic files rendered images and animations On line intelligent catalogs guide designers to the product that meets both their geometric requirements and performance functionality The author developed the industry scenarios by combining his own industry experience with the knowledge of engineers department managers vendors and manufacturers These professionals are directly involved with SOLIDWORKS every day Their responsibilities go far beyond the creation of just a 3D model The book is designed to compliment the SOLIDWORKS Tutorials contained in SOLIDWORKS 2016 *Beginner's Guide to SOLIDWORKS 2016 - Level I* Alejandro Reyes,2015-12 This book is intended to help new users learn the basic concepts of SOLIDWORKS and good solid modeling techniques in an easy to follow guide that includes video instruction It is a great starting point for those new to SOLIDWORKS or as a teaching aid in classroom training to become familiar with the software s interface basic commands and strategies as users complete a series of models while learning different ways to accomplish a particular task At the end of this book you will have a fairly good understanding of the SOLIDWORKS interface and the most commonly used commands for part modeling assembly and detailing after completing a series of components and their 2D drawings complete with Bill of Materials The book focuses on the processes to complete the modeling of a part instead of focusing on individual software commands or operations which are generally simple enough to learn The author strived hard to include the commands required in the Certified SOLIDWORKS Associate and Certified SOLIDWORKS Professional Exams as listed on the SOLIDWORKS website SOLIDWORKS is an easy to use CAD software that includes many time saving tools that will enable new and experienced users to complete design tasks faster than before Most commands covered in this book have advanced options which may not be covered in this book This is meant to be a starting point to help new users to learn the basic and most frequently used commands **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

Advanced Structural Textile Composites Forming Peng

Wang,Nahiène Hamila,2024-08-27 Advanced Structural Textile Composites Forming Characterization Modeling and Simulation comprehensively describes the influence of fiber fabric architectures and properties on composites forming along with their deformability and structural optimization covering the latest advances in the composites forming field Part one reviews textile reinforcement architectures and discusses the forming behaviors of important 2D and 3D fabrics Part two discusses numerical models to conduct simulation analysis of different structural composites forming at mesoscopic and macroscopic scales in particular 3D preforms with through the thickness yarns Part three looks at the latest developments in the relationship between forming and other steps in composite manufacturing such as resin injection and automated fiber placement AFP and the effects on certain mechanical properties such as structural damage and impact resistance The book will be an essential reference for academic researchers industrial engineers and materials scientists working with the manufacture and design of fiber reinforced composite materials Describes the influence of the fiber fabric architectures and

properties on composites forming along with their deformability and structural optimization Provides numerical modeling and simulation of different fiber reinforced composites forming at mesoscopic and macroscopic scales in particular reinforcements with discontinuous fibers and 3D preforms with through the thickness yarns Discusses cutting edge topics such as resin injection and automated fiber placement AFP and the effects of forming results on mechanical properties such as structural damage and impact resistances

Fabricate 2020 Jane Burry,Jenny E. Sabin,Bob Sheil,Marilena Skavara,2020-04-06 Fabricate 2020 is the fourth title in the FABRICATE series on the theme of digital fabrication and published in conjunction with a triennial conference London April 2020 The book features cutting edge built projects and work in progress from both academia and practice It brings together pioneers in design and making from across the fields of architecture construction engineering manufacturing materials technology and computation Fabricate 2020 includes 32 illustrated articles punctuated by four conversations between world leading experts from design to engineering discussing themes such as drawing to production behavioural composites robotic assembly and digital craft

Advances in Manufacturing Engineering Mithilesh K. Dikshit,Ashish Soni,J. Paulo Davim,2022-08-29 This book presents select peer reviewed proceedings of the International Conference on Futuristic Advancements in Materials Manufacturing and Thermal Sciences ICFAMMT 2022 The contents of this book provide an overview of the latest research in the area of manufacturing sciences such as metal cutting metal forming casting joining micromachining nonconventional machining and additive manufacturing Some of the other themes covered in this book are metal based additive manufacturing polymer based additive manufacturing hybrid additive manufacturing optimization approach for minimizing GD and error in additive manufactured parts The book will be useful for researchers and professionals working in the field of manufacturing engineering

Ultraprecision Machining of Hybrid Freeform Surfaces Using Multiple-Axis Diamond Turning Dennis Wee Keong Neo,2017-04-24 This thesis focuses on producing hybrid freeform surfaces using an advanced diamond turning process understanding the generation of surface accuracies form errors and how the choice of cutting strategies affects these as well as simplifying the complications of generating cutting paths for such freeform surfaces The breakthroughs behind this thesis are the development of novel multiple axis diamond turning techniques to overcome the limitations of conventional diamond turning processes an analytical model to optimize the generation of ultraprecise freeform surfaces and an add on tool path processor for CAD CAM software solutions It appeals to researchers and scholars with a strong machining background who are interested in the field of manufacturing ultraprecise freeform surfaces or in the field of optimizing ultraprecision machining processes

Mekanik Tasarım ve Analizin Bilimsel Esasları İlyas KACAR,2023-12-11 **Mastering Surface Modeling with SOLIDWORKS 2020** Lani Tran,2019-12 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 2020 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 8 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

Embark on a transformative journey with is captivating work, Discover the Magic in **Solidworks 2015 Surface Modeling Training Manual** . This enlightening ebook, available for download in a convenient PDF format Download in PDF: , invites you to explore a world of boundless knowledge. Unleash your intellectual curiosity and discover the power of words as you dive into this riveting creation. Download now and elevate your reading experience to new heights .

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Solidworks 2015 Surface Modeling Training Manual Introduction

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